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Instruction for use

HC series and HD series current sensors

- 1) When the frequency of the input current is high, the core generates an unusual amount of heat due to core loss, and this heat may damage the internal circuits. The amount of heat generated is influenced by the frequency and amount of the input current and differs depending on the type of sensor, so check the performance on the actual machine.
 - We are able to produce heat generation countermeasure products which use different core materials. Please
- 2) Since the output varies depending on the size of the load resistance, use with the specified resistance. (The size of the load resistance can be specified by the user.)
- 3) The signal output driver of the HD Series uses a C-MOS IC. Be careful when handling and avoid direct contact.
- 4) Output terminal pins 9 and 10 of the HD Series are analog output terminals for small signal input. Do not connect them to the lead wire or they will be affected by the data and clocking signal.

HS series and HM series current sensors

- 1) Use a resistance which has good accuracy and temperature characteristics for the load resistance which is connected to current output type sensors.
- 2) Prepare a control power supply the capacity of which is at least twice the rated output current.
- 3) If the connector is inserted or removed while the control power is being applied, residual magnetism may occur in the core due to the terminal contact timing becoming out of sequence, and the residual voltage may be affected. In addition to turning the power supply on and off while the connector is connected, ensure that the + side and side of the power supply are matched.
- 4) In inputting current above rating, note that some models specify energization time. If the product is used in excess of this time, internal circuit may fail.
- 5) When current exceeding saturation current is input, magnet compensation will not work, and residual output will cause displacement, therefore, use the product always at current below saturation current.
- 6) Demagnetize the sensors without applying electric power.

Common instruction for all series

- 1) Erroneous connection of the control terminals will cause the internal circuits to be instantaneously destroyed. Pay sufficient attention to the connection.
- 2) If static electricity or surge voltage is applied, the residual voltage may be increased.
- 3) In addition to making the control wiring as short as possible to protect it from outside noise, use twisted wire or shielding wire.
- 4) Connect a capacitor of approximately 0.1µF between the control power supply and GND.
- 5) Attach PCB mounting type current sensors firmly to the installation board so that they are not separated from it by more than 0.5mm.

Furthermore, perform the soldering under the following conditions.

Flow solder: Solder temperature approx. 250 degrees C, within 5 seconds Hand solder: Solder temperature approx. 280~300 degrees C, within 3 seconds

<Pb-free> Flow solder: Solder temperature approx. 260 degrees C, within 5 seconds

Hand solder: Solder temperature approx. 340 degrees C, within 4 seconds

- 6) The current sensor may be corroded under corrosive gas atmosphere. Make sufficient confirmation under actual service environmental conditions before use.
- 7) Do not store the sensors in hot or humid environments.

■ Usage limitations for current sensors

The products listed in our catalog are intended for use in general equipments (business machines, measuring equipments, industrial equipments, and home appliances, etc.), not for use under circumstances which may involve human life. They are not intended for use in special applications wherein high quality and reliability are required and the failure or malfunction of the product may cause danger to human body, such as nuclear power stations, transportation apparatuses (automobile, trains, ships, etc.), medical equipments for life support, or safety systems. If you need to use any of our products in one of the above mentioned special applications, please notify us or our agent beforehand for assistance.

■ Export limitations for Foreign Exchange and Foreign Trade Law
A product designated as 'strategic item' is controlled under the Foreign Exchange and Foreign Trade Law and
WMD catchall and requires permission from the Japanese Government prior to export. If you are unsure whether a
product is controlled, please contact us or our agent for assistance.

Concern for safety

While we constantly strive to improve quality and reliability and use materials compliant with safety guidelines, even though unlikely, current sensors can sometimes fail or malfunction. We caution the designer to respect all aspects of safety in order to protect life, prevent injury and prevent property damage should our product accidentally fail or malfunction.

Characteristic

The main characteristics and their details are described below.

Each characteristic is specified at an ambient temperature of 25 degrees C and with the stipulated control voltage (± 1% or less error) applied. (Only the control voltage is specified for the temperature characteristics.)

1) Rated output

Denotes the output when the rated current is input to the primary side.

2) Residual output

Denotes the output when the primary side input is zero. This measurement is performed after the core is demagnetized (an AC current equivalent to the rated current is input to the primary side and slowly made zero).

3) Linearity

Denotes the error in the actually measured output value and the estimate output voltage calculated by the least mean squares method from the output and residual output when the rated current and 1/2 rated current are

4) Saturation current

Denotes the input current value for which the output deviates from the estimate output voltage by more than

5) Linearity limits

Denotes the range of the input current value for which the output is within 1% of the estimate output voltage.

6) Output temperature characteristic

Denotes the rate of temperature change of the output (value after the residual output is subtracted) when the rated current in input within the working temperature range. (The rate of change is shown per 1 degrees C with the output at 25 degrees C as the reference.)

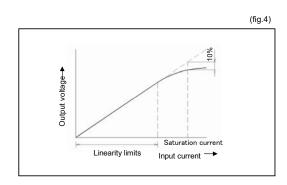
7) Residual output temperature characteristic Denotes the temperature change of the residual output within the working temperature range. (The change per 1 degrees C is shown.)

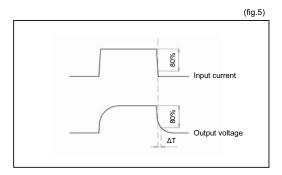
8) Response time

Denotes the output response time (ΔT) when a pulse current is input as the input current. ΔT is shown as the time difference of when the input and output waveforms drop to 80% of their initial levels. However, set the smaller one on either input pulse current (di/dt)=100A/ μ s or If/ μ s.

DC currents continuously flowing through board mount models (with a primary winding).

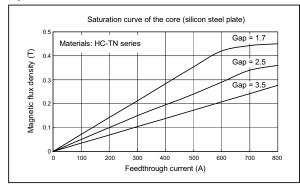
The DC currents continuously flowing through board mount models (with a primary winding) are limited by the wire diameter of the winding used in them. With some exceptions, our current sensors (with a primary winding) normally have $1/\sqrt{2}$ of the rated DC current set as a continuously flowing current. The relationships between the wire diameters of primary windings and the continuously flowing DC currents are summarized in the table below. Continuously flowing DC currents should be equal to the r.m.s. values of AC currents.

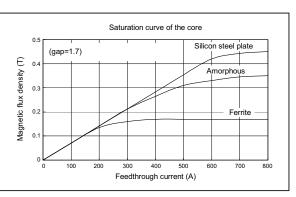


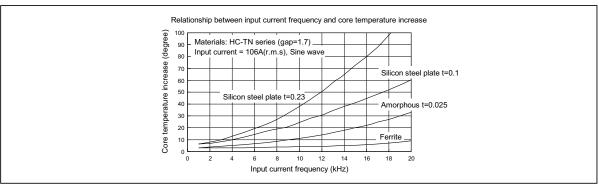


Wire diameter	Continuously flowing DC current (A)
Ф0.4	2.2
Ф0.5	3.5
Ф0.6	5
Ф0.8	8.8
Ф1.0	13.8
Ф1.1	16.7
Ф1.2	19.9
Ф1.3	23.3
□1x2	35
Ф1.6	35.4
□ 1.2 x 2	36.8
Ф1.1 х 2	33.4
Ф1.4 х 2	54.1

10) Characteristics of core



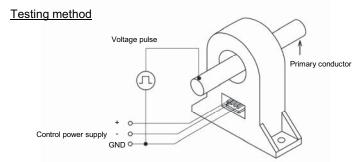




11) Noise testing method

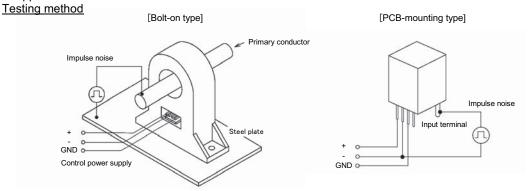
(1) Effects of dv/dt

Waveform of the output voltage when the voltage pulse of dv/dt=300V/µs is applied.

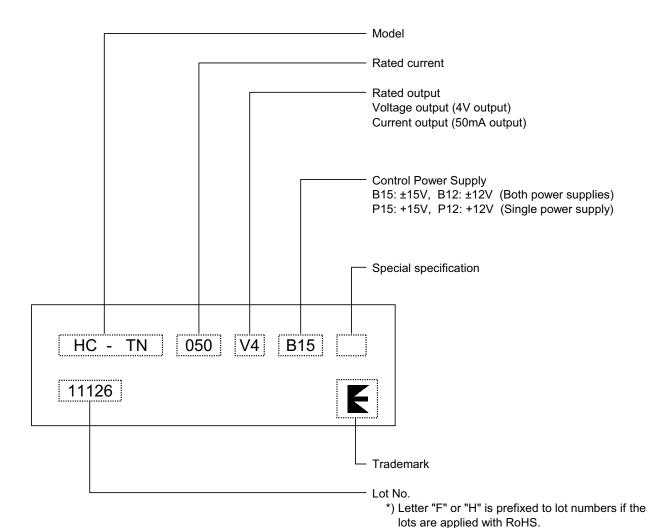


(2) Effects of impulse noise

Waveform of the output voltage when the impulse noise of rise time 1ns, pulse with $1\mu s$, and voltage 2,000V is applied.



Product marking



Standard max. rating	Input display	Example of display
Series of 70A or less	To the first decimal place	5A···05 37.5A···375 70A···70
Series of over 70A	000 ~ 999	70A···070 100A···100
1000A or more	E and first two digits	1000A···E10 3500A···E35 5000A···E50

(Example; F11126, H11126)



Туре									Rat	ed (curi	ren	t (A)										
1,700	1	5	10	15	20	30	50	60	70	10	0 2	200	250	300	400	500)	800	1000	20	00 3	000	4000
■ Open loop system																							
Bolt on type																							\Box
HC-MJ																							
HC-L																							Ш
HC-ML																							ш
HC-MN																							$\sqcup \sqcup$
HC-MSL																							$\sqcup \sqcup$
HC-MSN																							$\sqcup \sqcup$
HC-TF																							$\sqcup \sqcup$
HC-TTA																							
HC-TTB																							$\sqcup \sqcup$
HC-SL																							
HC-SN																							
HC-TN																							
HC-TS																							
HC-U																							$\sqcup \sqcup$
HC-W																							$\sqcup \sqcup$
HC-WT											H					\sqcup	+	\perp		1		\sqcup	$\vdash \vdash \vdash$
HC-VT																	4					\perp	$\sqcup \sqcup$
© PCB mounting type																							$\sqcup \sqcup$
HC-TTC																	-			-		-	$oldsymbol{\sqcup}$
HC-PZ																	+			-		-	$oldsymbol{\sqcup}$
HC-PT																							$\sqcup \sqcup$
HC-PTW																						₩	$\sqcup \sqcup$
HC-PG																							$\sqcup \sqcup$
HC-PJ																	-					-	$oldsymbol{\sqcup}$
HC-PVT																						-	\sqcup
HC-PSG																						-	$\vdash \vdash \vdash$
HC-PSE																						-	$\vdash \vdash \vdash$
HC-PD																						-	$\vdash \vdash \vdash$
HC-PDN																						-	$\vdash \vdash \vdash$
HC-PDA										+							+					-	++1
HC-PAE																						-	$\vdash \vdash \vdash$
HC-PL																						-	$\vdash \vdash \vdash$
HC-PFG																						-	$\vdash \vdash \vdash$
HC-PRZ																						+	++
HC-PRX											+	+					+	-		+		┿┙	ш
■ Closed loop system																	-			-		-	$oldsymbol{\sqcup}$
HS-PHA																	-			-		-	$oldsymbol{\sqcup}$
HS-PHB																	-			-		-	$oldsymbol{\sqcup}$
HS-P																	-			-		-	$oldsymbol{\sqcup}$
HS-PKD																						-	$\vdash \vdash \vdash$
HS-PTF																						-	\sqcup
HS-U																						-	$\vdash \vdash \vdash$
HS-UF																		-		-		\vdash	$\vdash \vdash \vdash$
HS-UD										+	-	-						-		-		+	$\vdash \vdash \vdash$
HS-K									++	++	+	-						+	\vdash	+		igaplus	$+\!\!+\!\!\!+$
■ Digital sensor									++										\vdash				$\vdash \vdash \vdash$
HD-TS									44											-		lacksquare	$oldsymbol{\sqcup}oldsymbol{\sqcup}$
■ Magnetic coil type HM-B																							
■ Clamp type AC-CT																						П	
НА-А																	Ť			1		T	$\Box\Box$
HA-B, C																	T					\Box	$\Box\Box$
HA-BV, CV																	T					П	$\Box\Box$
HA-BR																							



HC-MJ series

Medium-sized, high-capacity type Bolt on type

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HC-MJ



- Rated current 1000A ~ 4000A
- Protection network internalized for superior surge withstand capability
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

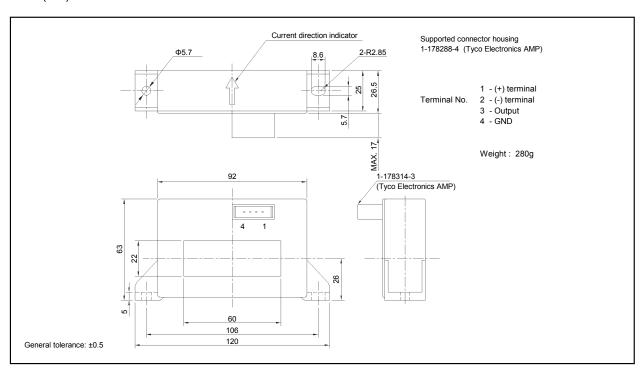




Applications

High-capacity inverters (for power plants), High-capacity power supply equipment

Dimensions



HC-MJ series

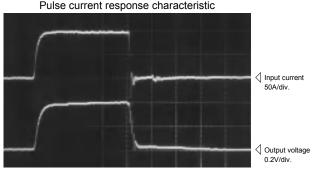
Specification Ta=25°C

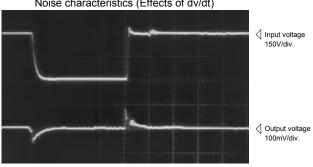
Туре	HC-MJE10V4B15	HC-MJE20V4B15	HC-MJE30V4B15	HC-MJE40V4B15				
Rated current [If]	±1000A	±2000A	±3000A	±4000A				
Saturation current [Is]	±2400A	±2400A	±4800A	±4800A				
Linearity limits	0~±2000A	0~±2000A	0~±4000A	0~±4000A				
Rated output [Vh]		±4V±	1.5%					
Residual output [Vo]		Within	±30mV					
Output linearity		Within	n ±1%					
Response time		Within 10μs (at di/dt=100A/μs)						
Response performance		Within 10%						
Hysteresis voltage range	Within 30mV							
Output Temp. Coef.	Within ±0.1%/°C							
Residual output Temp. Coef.		Within ±1.5mV/°C						
Control power supply		±15V±5%						
Consumption current		Within 50mA						
Operating Temp.		-40°C~+80°C						
Storage Temp.		-40°C~+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance	Not less than 500MΩ 500V DC							

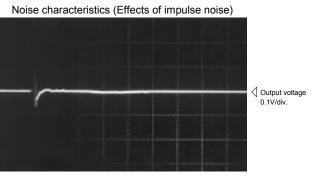
Note1) The indicated rated output is the one when no load is applied.

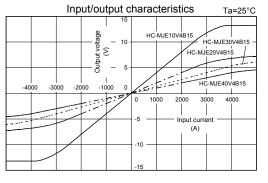
Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-MJE10V4B15 5μs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt)









Note: The marks " < " means 0V or 0A.

HC-L series

Medium-sized, high-capacity type Bolt on type

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HC-L



- Rated current 800A ~ 3000A
- Superior noise-resistance
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

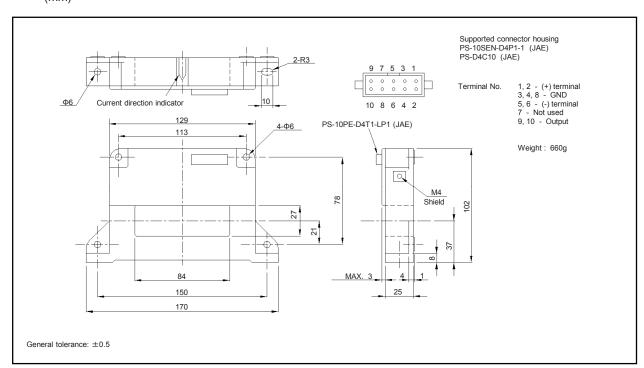




Applications

High-capacity inverters (for power plants), High-capacity power supply equipment

Dimensions



HC-L series

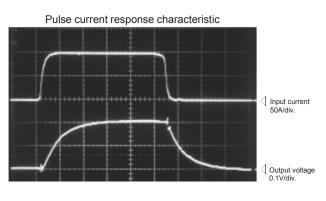
Specification Ta=25°C

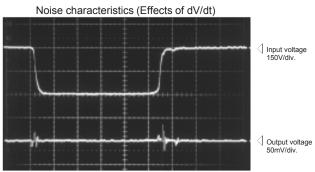
Туре		HC-L800V4B15	HC-LE10V4B15	HC-LE20V4B15	HC-LE30V4B15				
Rated current	[If]	±800A	±1000A	±2000A	±3000A				
Saturation current	[ls]	±1200A	±2500A	±4000A	±5000A				
Linearity limits		0~±1000A	0~±2000A	0~±3500A	0~±4000A				
Rated output	[Vh]		±4V±1%						
Residual output	[Vo]		Within :	±30mV					
Output linearity			Within	±1%					
Response time		Within 10μs (at di/dt=100A/μs)							
Response performance		Within 10%							
Hysteresis voltage range		Within 30mV							
Output Temp. Coef.		Within ±0.05%/°C							
Residual output Temp. Cod	ef.	Within ±2mV/°C							
Control power supply		±15V±5%							
Consumption current		Within 50mA							
Operating Temp.		-10°C~+80°C							
Storage Temp.		-15°C~+85°C							
Dielectric withstand voltag	е	2500V AC 50/60Hz 1minute							
Insulation resistance		Not less than 500MΩ 500V DC							

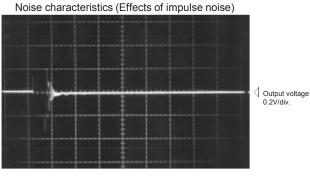
Note1) The indicated rated output is the one when no load is applied.

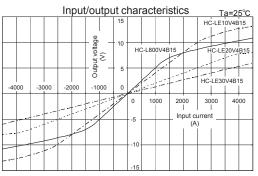
 $\label{eq:Note2} \mbox{Note2) The indicated residual output is the one after the core hysteresis is removed.}$

Characteristics chart HC-LE20V4B15 Time base: 5µs/div.









Note: The marks " \ " means 0V or 0A.



HC-ML series

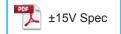
Medium-sized, high-capacity type Bolt on type

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HC-ML



- Rated current 300A ~ 3000A
- Screw type control terminals also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

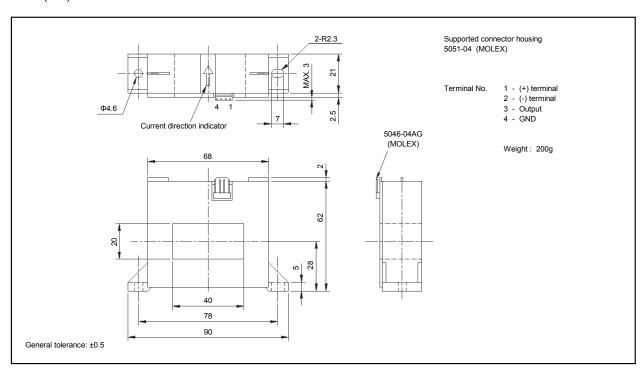




Applications

Inverters, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



HC-ML series

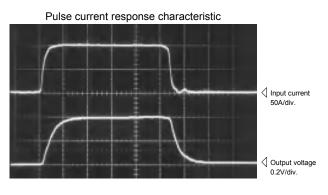
Specification Ta=25°C

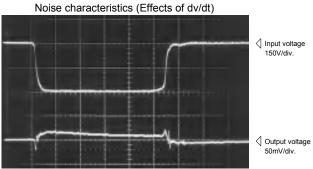
Туре		HC-ML300V4B15	HC-ML600V4B15	HC-MLE10V4B15	HC-MLE15V4B15	HC-MLE30V4B15		
Rated current	[If]	±300A	±600A	±1000A	±1500A	±3000A		
Saturation current	[ls]	±900A	±1200A	±2400A	±2400A	±5000A		
Linearity limits		0~±900A	0~±1000A	0~±2100A	0~±2100A	0~±4500A		
Rated output	[Vh]		±4V	±1%		±4V±2%		
Residual output	[Vo]			Within ±30mV				
Output linearity				Within ±1%				
Response time		Within 10μs (at di/dt=100A/μs)						
Response performance		Within 10%						
Hysteresis voltage range		Within 30mV						
Output Temp. Coef.		Within ±0.1%/°C						
Residual output Temp. Cod	ef.	Within ±1mV/°C						
Control power supply		±15V±5%						
Consumption current		Within 30mA Within 50mA			Within 50mA			
Operating Temp.		-10°C~+80°C						
Storage Temp.		-15°C~+85°C						
Dielectric withstand voltag	е	2500V AC 50/60Hz 1minute						
Insulation resistance		Not less than 500MΩ 500V DC						

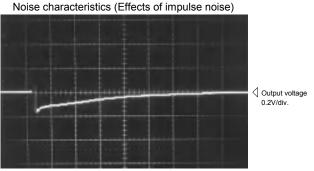
Note1) The indicated rated output is the one when no load is applied.

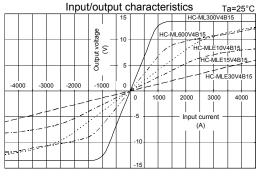
Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-MLE10V4B15 5µs/div. Time base









Note: The marks " < " means 0V or 0A.



HC-MN series

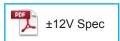
Medium-sized, high-capacity type Bolt on type

HC-MN



- Rated current 300A ~ 3000A
- Superior noise-resistance
- Screw type control terminals also available
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

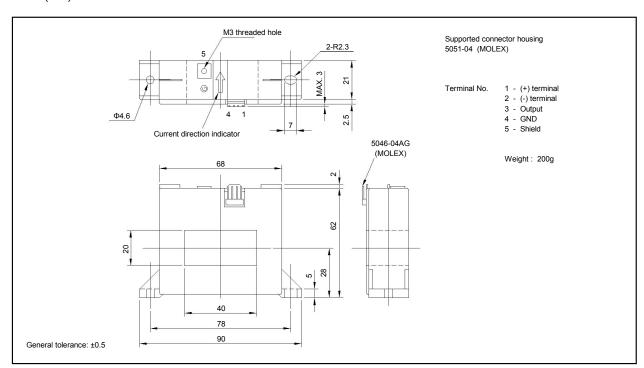




Applications

Inverters, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



HC-MN series

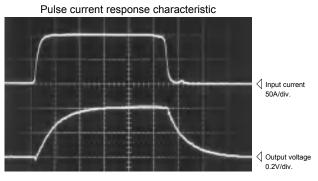
Specification Ta=25°C

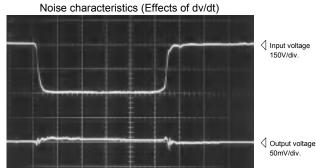
Туре		HC-MN300V4B15	HC-MN600V4B15	HC-MNE10V4B15	HC-MNE15V4B15	HC-MNE30V4B15	
Rated current	[If]	±300A	±600A	±1000A	±1500A	±3000A	
Saturation current	[ls]	±900A	±1200A	±2400A	±2400A	±5000A	
Linearity limits		0~±900A	0~±1000A	0~±2100A	0~±2100A	0~±4500A	
Rated output	[Vh]		±4V	±1%		±4V±2%	
Residual output	[Vo]			Within ±30mV			
Output linearity				Within ±1%			
Response time			Within	10µs (at di/dt=10	0Α/μs)		
Response performance	е	Within 10%					
Hysteresis voltage rang	је	Within 30mV					
Output Temp. Coef.		Within ±0.1%/°C					
Residual output Temp. C	oef.	Within ±1mV/°C					
Control power supply	,			±15V±5%			
Consumption current		Within 30mA Within 50mA			Within 50mA		
Operating Temp.		-10°C~+80°C					
Storage Temp.		-15°C~+85°C					
Dielectric withstand volta	age	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 500MΩ 500V DC					
	age						

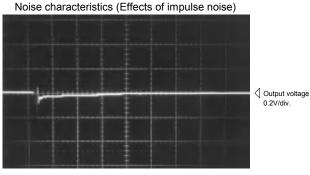
Note1) The indicated rated output is the one when no load is applied.

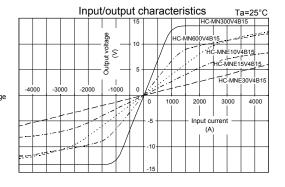
Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-MNE10V4B15 5µs/div. Time base









Note: The marks " < " means 0V or 0A.



HC-MSL series

Medium-sized, high-capacity type Bolt on type

HC-MSL



- Rated current 300A ~ 3000A
- Screw type control terminals also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

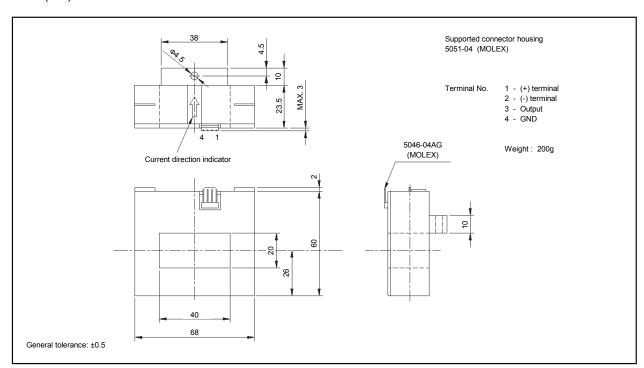




Applications

Inverters, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



HC-MSL series

Specification						Ta=25°C		
Туре		HC-MSL300V4B15	HC-MSL600V4B15	HC-MSLE10V4B15	HC-MSLE15V4B15	HC-MSLE30V4B15		
Rated current	[If]	±300A	±600A	±1000A	±1500A	±3000A		
Saturation current	[ls]	±900A	±1200A	±2400A	±2400A	±5000A		
Linearity limits		0~±900A	0~±1000A	0~±2100A	0~±2100A	0~±4500A		
Rated output	[Vh]		±4V	±1%		±4V±2%		
Residual output	[Vo]			Within ±30mV				
Output linearity				Within ±1%				
Response time		Within 10μs (at di/dt=100A/μs)						
Response performance		Within 10%						
Hysteresis voltage range	:	Within 30mV						
Output Temp. Coef.		Within ±0.1%/°C						
Residual output Temp. Co	ef.	Within ±1mV/°C						
Control power supply		±15V±5%						
Consumption current		Within	30mA		Within 50mA			
Operating Temp.		-10°C~+80°C						
Storage Temp.		-15°C~+85°C						
Dielectric withstand voltage	e	2500V AC 50/60Hz 1minute						
Insulation resistance			Not les	ss than 500MΩ 50	0V DC			

Note1) The indicated rated output is the one when no load is applied.

Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-MSLE10V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div. Output voltage Output voltage Noise characteristics (Effects of impulse noise) Input/output characteristics 3 HC-MLSE10V4B15 HC-MSLE30V4B1 -1000 Output voltage 0.2V/div. Input current

Note: The marks " < " means 0V or 0A.



HC-MSN series

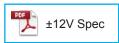
Medium-sized, high-capacity type Bolt on type

HC-MSN



- Rated current 300A ~ 3000A
- Superior noise-resistance
- Screw type control terminals also available
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

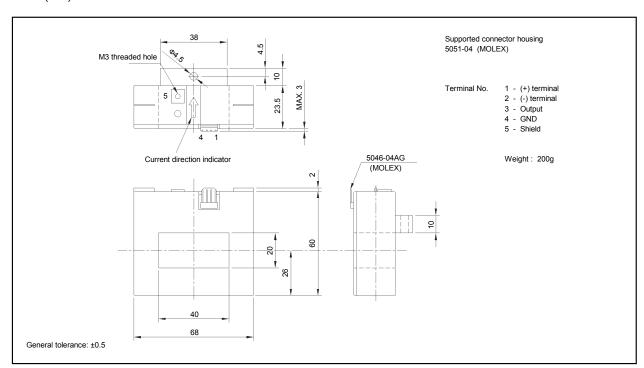




Applications

Inverters, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions





HC-MSN series

Specification					Ta=25°C		
Туре	HC-MSN300V4B15	HC-MSN600V4B15	HC-MSNE10V4B15	HC-MSNE15V4B15	HC-MSNE30V4B15		
Rated current [If]	±300A	±600A	±1000A	±1500A	±3000A		
Saturation current [Is]	±900A	±1200A	±2400A	±2400A	±5000A		
Linearity limits	0~±900A	0~±1000A	0~±2100A	0~±2100A	0~±4500A		
Rated output [Vh]		±4V	±1%	1	±4V±2%		
Residual output [Vo]			Within ±30mV		,		
Output linearity			Within ±1%				
Response time	Within 10μs (at di/dt=100A/μs)						
Response performance	Within 10%						
Hysteresis voltage range	Within 30mV						
Output Temp. Coef.	Within ±0.1%/°C						
Residual output Temp. Coef.		Within ±1mV/°C					
Control power supply			±15V±5%				
Consumption current	Within	30mA		Within 50mA			
Operating Temp.	-10°C~+80°C						
Storage Temp.	-15°C~+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute						
Insulation resistance		Not les	ss than 500MΩ 50	0V DC			
Dielectric withstand voltage		Not les	V AC 50/60Hz 1m				

Note1) The indicated rated output is the one when no load is applied.

Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-MSNE10V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div. Output voltage Output voltage 50mV/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Output voltage 3 HC-MSNE30V4B1 -1000 Output voltage 0.2V/div. Input current

Note: The marks " < " means 0V or 0A.





HC-TF series

Medium-sized, high-capacity type Bolt on type

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HC-TF



- Rated current 50A ~ 1600A
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

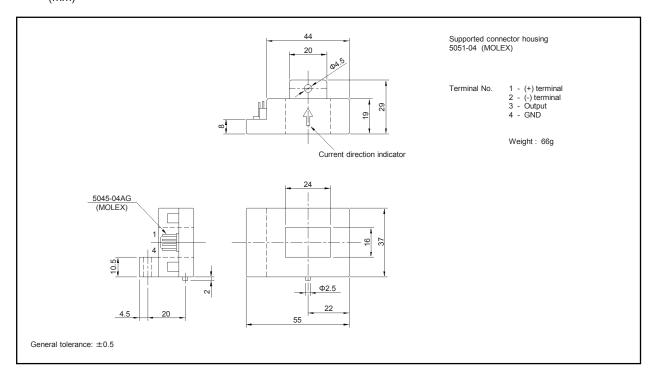




Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



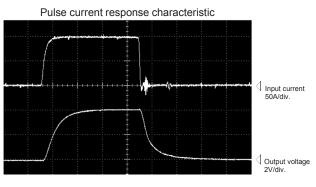
HC-TF series

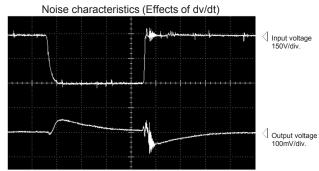
Specification Ta=25°C

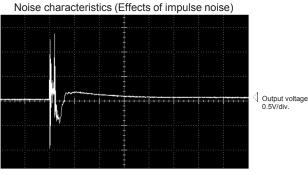
Туре		HC-TF050V4B15	HC-TF100V4B15	HC-TF400V4B15	HC-TFE10V4B15H	HC-TFE16V4B15H	
	If]	±50A	±100A	±400A	±1000A	±1600A	
Saturation current [s]	±150A	±300A	±900A	±1800A	±1800A	
Linearity limits		0~±112.5A	0~±225A	0~±650A	0~±1600A	0~±1600A	
Rated output [Vh]	+If	V	0+4V±1% (RL=1	0kΩ)	V0+4V±2%	(RL=10kΩ)	
Nated output [VII]	-If	V	0-4V±1% (RL=10	θkΩ)	V0-4V±2%	(RL=10kΩ)	
Residual output [\	/o]	Within ±70mV		Within	±50mV		
Output linearity				Within ±1%			
Response time		Within 10µs (The smaller one on either at di/dt = 100 A/µs or If/µs.)					
Response performance		Within 10%					
Hysteresis voltage range			Within 30mV				
Output Temp. Coef.		Within ±0.1%/°C					
Residual output Temp. Coef.		Within ±3mV/°C	Within ±1.5mV/°C Within ±1mV/°C				
Control power supply				±15V±5%			
Consumption current		Within 30mA					
Operating Temp.		-10°C~+80°C					
Storage Temp.		-15°C~+85°C					
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			Not les	ss than 500MΩ 50	0V DC		

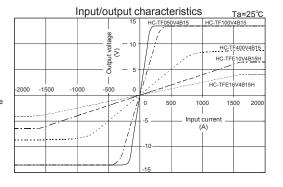
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart HC-TF100V4B15 Time base: 5µs/div.









Note: The marks " \ " means 0V or 0A.





HC-TTA series

Small-sized, medium-capacity type Bolt on type

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HC-TTA

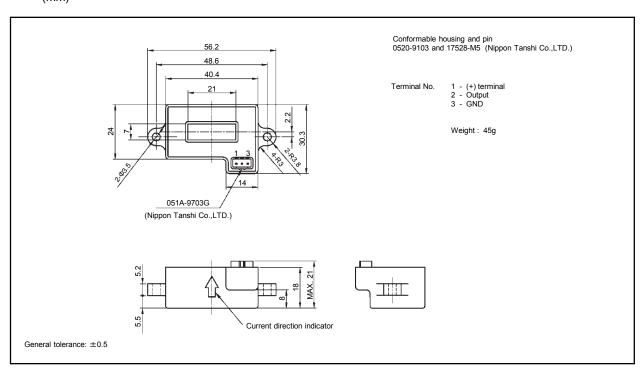


- Rated current 300A ~ 900A
- Potted products
- Superior noise-resistance
- Built-in wire break detector enables detection of broken GND connection

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



HC-TTA series

Specification Ta=25°C

Туре	HC-TTA300V2PP5	HC-TTA600V2PP5	HC-TTA900V2PP5			
Rated current [If]	±300A ±600A		±900A			
Saturation current [ls]	±330A	±660A	±990A			
Linearity limits	0~±300A	0~±600A	0~±900A			
Rated output [Vh]	$V0\pm2V\pm50$ mV (RL= 10 k Ω)					
Residual output [V0]	Within Vcc/2±50mV					
Output linearity	Within ±1%					
Response time	Within 10μs (at di/dt=100A/μs)					
Response performance	Within 10%					
Hysteresis voltage range	Within 30mV			Within 30mV		
Output Temp. Coef.	Within ±0.1%/℃			Within ±0.1%/℃		
Residual output Temp. Coef.	Within ±1mV/°C					
Control power supply [Vcc]	+5V±5%					
Consumption current	Within 30mA					
Operating Temp.	-10°C~+80°C					
Storage Temp.	-15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance	Not less than 500MΩ 500V DC					

- Note1) The indicated residual voltage is the one after the core hysteresis is removed.
- Note2) Output specifications include 100-Ω output resistance and 0.7-mA maximum output current.
- Note3) Since residual output is ratiometric output, it varies according to the control power supply value.
- Note4) Output is +4.8 V or greater when GND line is disconnected.

Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input outlage 0.2V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Input/output characteristics Ta=25°C Input/output voltage 0.2V/div.

Note: The marks " \(\text{" means 0V or 0A.} \)





HC-TTB series

Small-sized, medium-capacity type Bolt on type

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HC-TTB

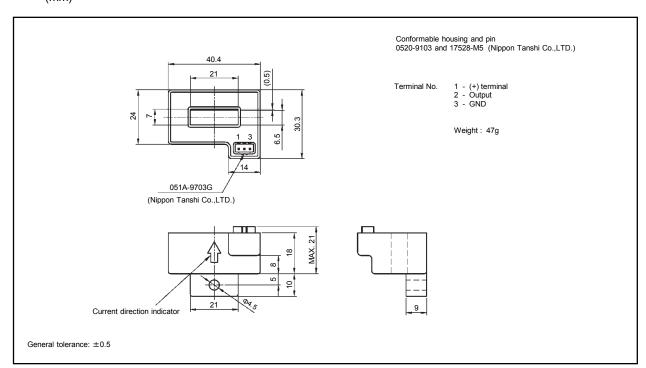


- Rated current 300A ~ 900A
- Potted products
- Superior noise-resistance
- Built-in wire break detector enables detection of broken GND connection

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions





HC-TTB series

Specification Ta=25°C

Туре	HC-TTB300V2PP5	HC-TTB600V2PP5	HC-TTB900V2PP5			
Rated current [If]	±300A ±600A		±900A			
Saturation current [ls]	±330A	±660A	±990A			
Linearity limits	0~±300A	0~±600A	0~±900A			
Rated output [Vh]	$V0\pm2V\pm50$ mV (RL= 10 k Ω)					
Residual output [V0]	Within Vcc/2±50mV					
Output linearity	Within ±1%					
Response time	Within 10μs (at di/dt=100A/μs)					
Response performance	Within 10%					
Hysteresis voltage range	Within 30mV			Within 30mV		
Output Temp. Coef.	Within ±0.1%/℃			Within ±0.1%/°C		
Residual output Temp. Coef.	Within ±1mV/°C					
Control power supply [Vcc]	+5V±5%					
Consumption current	Within 30mA					
Operating Temp.	-10°C~+80°C					
Storage Temp.	-15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance	Not less than 500MΩ 500V DC					

- Note1) The indicated residual voltage is the one after the core hysteresis is removed.
- Note2) Output specifications include 100-Ω output resistance and 0.7-mA maximum output current.
- Note3) Since residual output is ratiometric output, it varies according to the control power supply value.
- Note4) Output is +4.8 V or greater when GND line is disconnected.

Note: The marks " \quad " means 0V or 0A.

Characteristics chart HC-TTB600V2PP5 Sps/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage Output voltage





HC-SL series

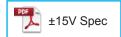
Small-sized, medium-capacity type Bolt on type

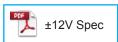
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HC-SL



- Rated current 50A ~ 800A
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

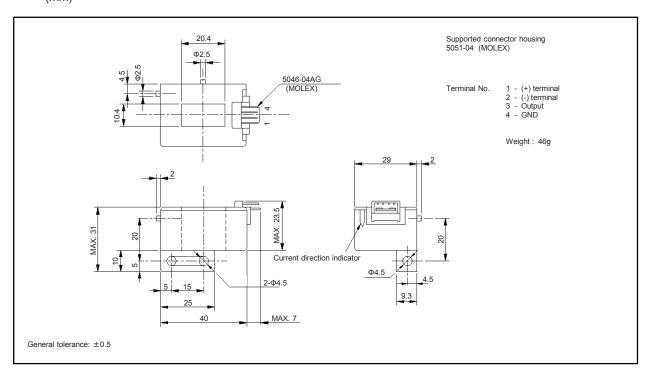




Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



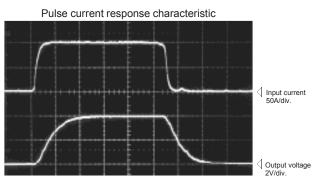
HC-SL series

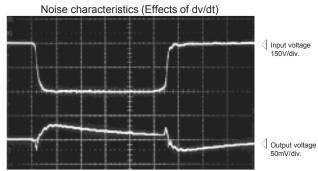
Specification Ta=25°C

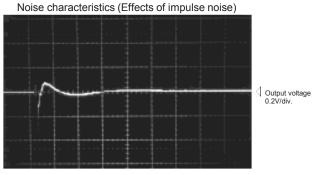
Туре		HC-SL050V4B15	HC-SL100V4B15	HC-SL300V4B15	HC-SL600V4B15	HC-SL800V4B15
Rated current	[If]	±50A	±100A	±300A	±600A	±800A
Saturation current	[Is]	±150A	±300A	±900A	±1000A	±1000A
Linearity limits		0~±150A	0~±300A	0~±700A	0~±900A	0~±900A
Rated output	[Vh]	±4V±1.5% (RL=10kΩ)	±4V±1% (RL=10kΩ)			<u> </u>
Residual output	[Vo]	Within ±50mV	NV Within ±30mV			
Output linearity		Within ±1%				
Response time		Within 10μs (The smaller one on either at di/dt = 100A/μs or If/μs.)			· If/µs.)	
Response performance		Within 10%				
Hysteresis voltage range		Within 30mV				
Output Temp. Coef.		Within ±0.1%/℃				
Residual output Temp. Coe	ef.	Within ±3mV/°C Within ±1.5mV/°C Within ±1mV/°C				
Control power supply		±15V±5%				
Consumption current		Within 30mA				
Operating Temp.		-10°C~+80°C				
Storage Temp.		-15°C~+85°C				
Dielectric withstand voltag	е	2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 500MΩ 500V DC				

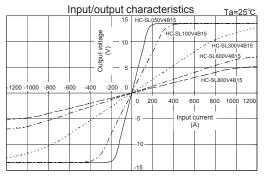
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart HC-SL100V4B15 Time base: 5µs/div.









Note: The marks " \ " means 0V or 0A.



HC-SN series

Small-sized, medium-capacity type Bolt on type

HC-SN



- Rated current 50A ~ 800A
- Superior noise-resistance
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

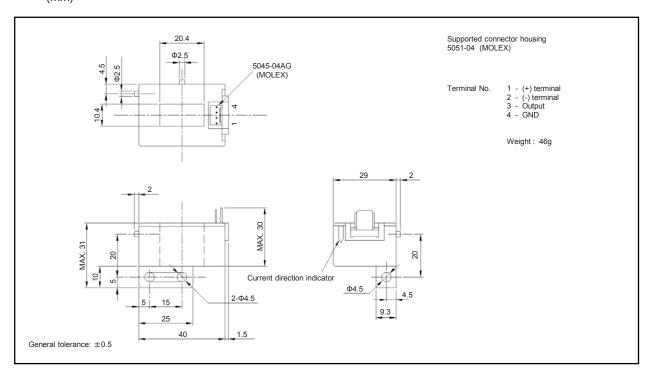




Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



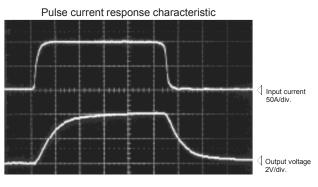
HC-SN series

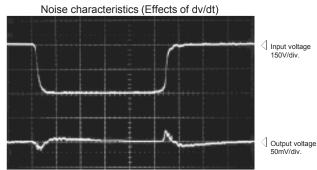
Specification Ta=25°C

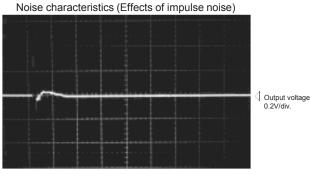
		HC-SN050V4B15	HC-SN100V4B15	HC-SN300V4B15	HC-SN600V4B15	HC-SN800V4B15
Rated current	[If]	±50A	±100A	±300A	±600A	±800A
Saturation current	[ls]	±150A	±300A	±700A	±1000A	±1000A
Linearity limits		0~±150A	0~±300A	0~±450A	0~±900A	0~±900A
Rated output	[Vh]	±4V±1.5% (RL=10kΩ)	±4V±1% (RL=10kΩ)			
Residual output	[Vo]	Within ±50mV	/ Within ±30mV			
Output linearity		Within ±1%				
Response time		Within 10μs (The smaller one on either at di/dt = 100A/μs or If/μs.)			· If/µs.)	
Response performance		Within 10%				
Hysteresis voltage range		Within 30mV				
Output Temp. Coef.		Within ±0.1%/℃				
Residual output Temp. Coe	f.	Within ±3mV/°C Within ±1.5mV/°C Within ±1mV/°C				
Control power supply		±15V±5%				
Consumption current		Within 30mA				
Operating Temp.		-10°C~+80°C				
Storage Temp.		-15°C~+85°C				
Dielectric withstand voltage	9	2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 500MΩ 500V DC				
Martada Tha Cadhaatad aashi ah ah ah a		-				

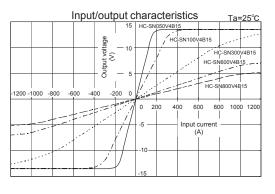
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart HC-SN100V4B15 Time base: 5µs/div.









Note: The marks " \ " means 0V or 0A.



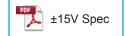
HC-TN series

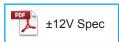
Small-sized, medium-capacity type Bolt on type

HC-TN



- Rated current 50A ~ 800A
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

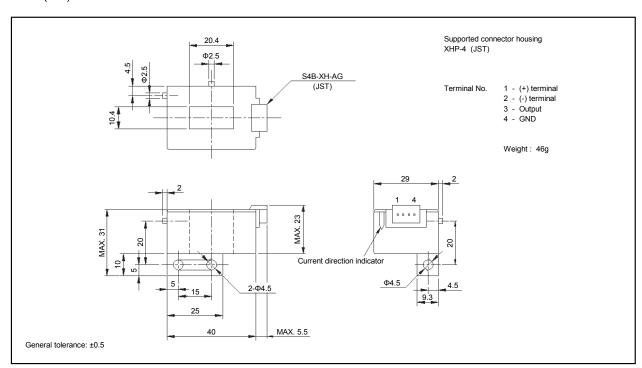




Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



Specification

Hysteresis voltage range

Dielectric withstand voltage

Insulation resistance

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HC-TN series

Ta=25°C

Туре HC-TN050V4B15 HC-TN100V4B15 HC-TN300V4B15 HC-TN600V4B15 HC-TN800V4B15 Rated current [If] ±50A ±100A ±300A ±600A ±800A Saturation current ±300A ±900A ±1000A ±1000A ±150A [ls] Linearity limits 0~±150A 0~±300A 0~±700A 0~±900A 0~±900A ±4V±1.5% ±4V±1% (RL=10kΩ) Rated output [Vh] $(RL=10k\Omega)$ Within ±30mV Residual output [Vo] Within ±50mV Within ±1% **Output linearity** Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.) Response time Response performance Within 10%

Output Temp. Coef.

Residual output Temp. Coef.

Within ±3mV/°C

Within ±1.5mV/°C

Within ±1.5mV/°C

Within ±1.5mV/°C

Within ±1.5mV/°C

Within ±1.5mV/°C

Within ±1mV/°C

±15V±5%

Consumption current

Within 30mA

Operating Temp.

-10°C~+80°C

Storage Temp.

-15°C~+85°C

Within 30mV

2500V AC 50/60Hz 1minute

Not less than 500MΩ 500V DC

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Input/output characteristics Input/output characteristics Input/output characteristics Ta=25°C Output voltage 2V/div. Output voltage 2V/div.

Note: The marks " < " means 0V or 0A.



6505 W. Park Blvd. Suite 306 PMB 356. Plano, TX 75093

HC-TS series

Small-sized, medium-capacity type Bolt on type

HC-TS



Tel: 972.931.8463 | Fax: 972.931.8668 | sales@dgseals.com

- Rated current 50A ~ 800A
- Superior noise-resistance
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below



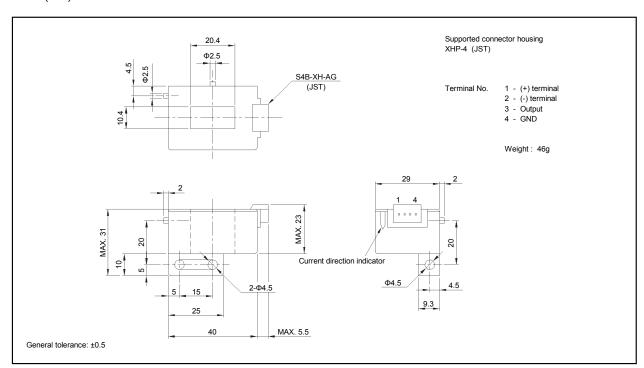


±12V Spec

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools. Welders

Dimensions



Specification

Residual output Temp. Coef.

Control power supply

Consumption current

Operating Temp.

Storage Temp.

Dielectric withstand voltage

Insulation resistance

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HC-TS series

Within ±1mV/°C

±15V±5%

Within 30mA -10°C~+80°C

-15°C~+85°C

2500V AC 50/60Hz 1minute

Not less than 500MΩ 500V DC

Ta=25°C

Туре HC-TS050V4B15 HC-TS100V4B15 HC-TS300V4B15 HC-TS600V4B15 HC-TS800V4B15 Rated current [If] ±50A ±100A ±300A ±600A ±800A Saturation current ±900A ±1000A ±1000A ±150A ±300A [ls] Linearity limits 0~±150A 0~±300A 0~±700A 0~±900A 0~±900A ±4V±1.5% ±4V±1% (RL=10kΩ) Rated output [Vh] $(RL=10k\Omega)$ Within ±30mV Residual output [Vo] Within ±50mV Within ±1% **Output linearity** Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.) Response time Response performance Within 10% Within 30mV Hysteresis voltage range Output Temp. Coef. Within ±0.1%/°C

Within ±1.5mV/°C

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Within ±3mV/°C

Characteristics chart HC-TS100V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage Input current 50A/div. Output voltage 50mV/div. Output voltage Noise characteristics (Effects of impulse noise) Input/output characteristics HC-TS050V4B15 Output voltage S Output voltage 0.2V/div.

Note: The marks " < " means 0V or 0A.





HC-U series

Small-sized, medium-capacity type Bolt on type

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HC-U



- Rated current 50A ~ 300A
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

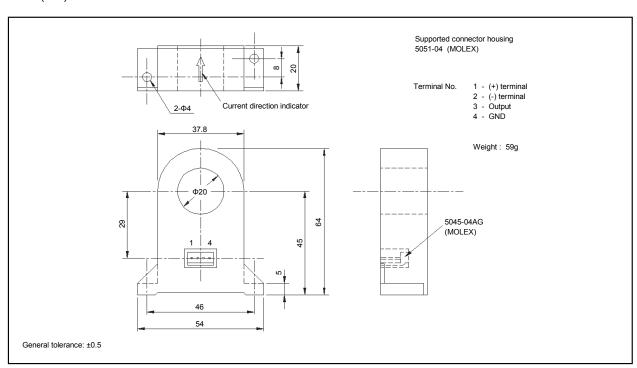




Applications

Inverters, Power supply equipment, NC machine tools, Welders

Dimensions





HC-U series

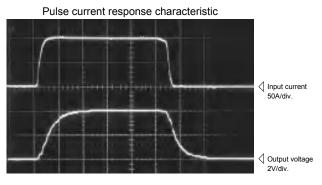
Specification Ta=25°C

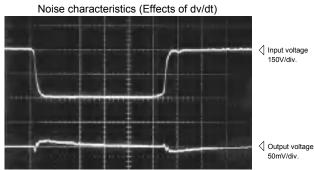
Type	HC-U050V4B15	HC-U100V4B15	HC-U300V4B15			
Rated current [If]	±50A	±100A	±300A			
Saturation current [Is]	±150A	±300A	±700A			
Linearity limits	0~±150A	0~±300A	0~±600A			
Rated output [Vh]	±4V±1.5%	±4V	±1%			
Residual output [Vo]	Within ±50mV	Within	±30mV			
Output linearity		Within ±1%				
Response time	Within 10μs (The smaller one on either at di/dt = 100A/μs or If/μs.)					
Response performance	Within 10%			Within 10%		
Hysteresis voltage range		Within 30mV				
Output Temp. Coef.		Within ±0.08%/°C				
Residual output Temp. Coef.	Within ±2.5mV/°C	Within ±	1.5mV/°C			
Control power supply		±15V±5%				
Consumption current	Within 30mA					
Operating Temp.	-10°C~+80°C					
Storage Temp.	-15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance	N	Not less than 500MΩ 500V DO	2			

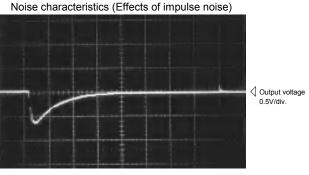
Note1) The indicated rated output is the one when no load is applied.

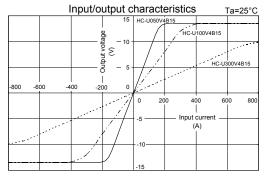
Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-U100V4B15 5µs/div. Time base











HC-W series

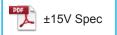
Small-sized, medium-capacity type Bolt on type

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HC-W



- Rated current 50A ~ 300A
- Two circuits can be measured at the same time
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

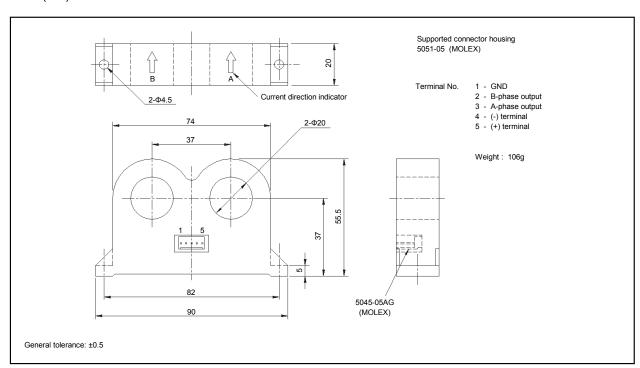




Applications

Inverters, Power supply equipment, NC machine tools

Dimensions



HC-W series

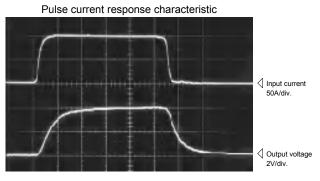
Specification Ta=25°C

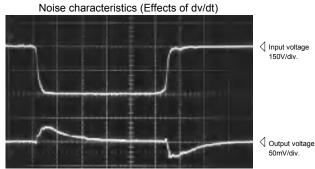
Туре		HC-W050V4B15	HC-W100V4B15	HC-W300V4B15
Rated current	[If]	±50A	±100A	±300A
Saturation current	[ls]	±150A	±300A	±700A
Linearity limits		0~±150A	0~±300A	0~±600A
Rated output	[Vh]	±4V±1.5%	±4V:	±1%
Residual output	[Vo]	Within ±50mV	Within	±30mV
Output linearity			Within ±1%	
Response time		Within 10μs (The smaller one on either at di/dt = 100A/μs or If/μs.)		
Response performance		Within 10%		
Hysteresis voltage range			Within 30mV	
Output Temp. Coef.			Within ±0.08%/°C	
Residual output Temp. Coef.		Within ±2.5mV/°C	Within ±1	I.5mV/°C
Control power supply			±15V±5%	
Consumption current		Within 60mA		
Operating Temp.		-10°C~+80°C		
Storage Temp.		-15°C~+85°C		
Dielectric withstand voltage		2500V AC 50/60Hz 1minute		
Insulation resistance		N	Not less than 500MΩ 500V DC	

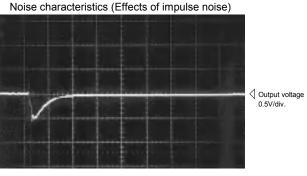
Note1) The indicated rated output is the one when no load is applied.

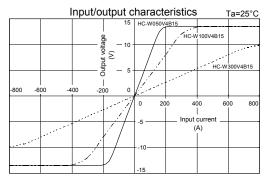
Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-W100V4B15 5µs/div. Time base











HC-WT series

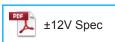
Small-sized, medium-capacity type Bolt on type

HC-WT



- Rated current 50A ~ 300A
- Two circuits can be measured at the same time
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

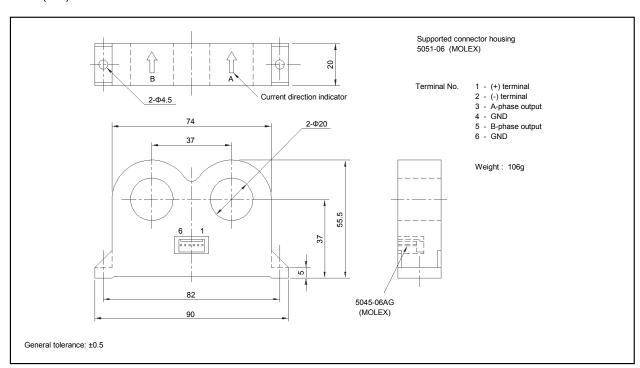




Applications

Inverters, Power supply equipment, NC machine tools

Dimensions





HC-WT series

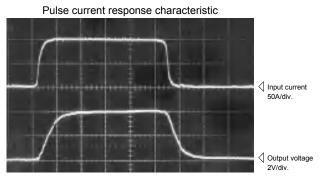
Specification Ta=25°C

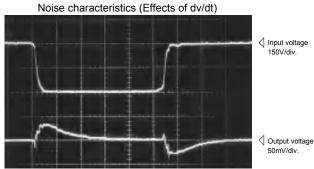
Туре		HC-WT050V4B15	HC-WT100V4B15	HC-WT300V4B15
Rated current	[If]	±50A	±100A	±300A
Saturation current	[ls]	±150A	±300A	±700A
Linearity limits		0~±150A	0~±300A	0~±600A
Rated output [Vh]	±4V±1.5%	±4V:	±1%
Residual output [Vo]	Within ±50mV	Within	±30mV
Output linearity			Within ±1%	
Response time		Within 10μs (The smaller one on either at di/dt = 100A/μs or If/μs.)		
Response performance		Within 10%		
Hysteresis voltage range			Within 30mV	
Output Temp. Coef.			Within ±0.08%/°C	
Residual output Temp. Coef.		Within ±2.5mV/°C	Within ±1	1.5mV/°C
Control power supply			±15V±5%	
Consumption current		Within 60mA		
Operating Temp.		-10°C~+80°C		
Storage Temp.		-15°C~+85°C		
Dielectric withstand voltage		2500V AC 50/60Hz 1minute		
Insulation resistance		N	Not less than 500MΩ 500V DC	C

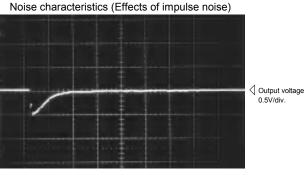
Note1) The indicated rated output is the one when no load is applied.

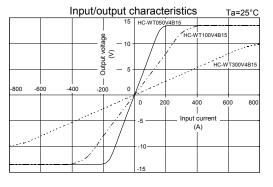
Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-WT100V4B15 5µs/div. Time base











HC-VT series

Small-sized, medium-capacity type Bolt on type

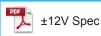
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HC-VT



- Rated current 50A ~ 300A
- Superior noise-resistance
- Three circuits can be measured at the same time
- Ferrite core specification also available (Rated current 50A ~ 100A)
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

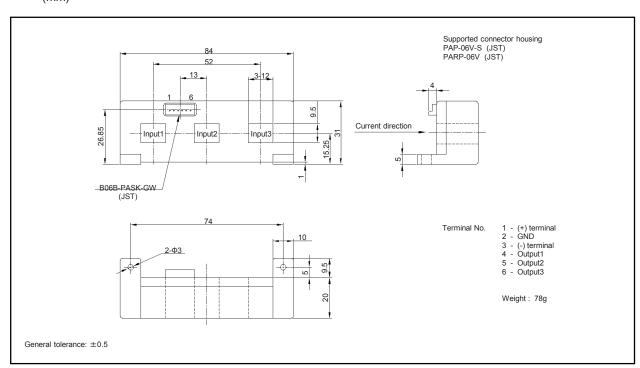




Applications

Inverters, Power supply equipment, NC machine tools

Dimensions

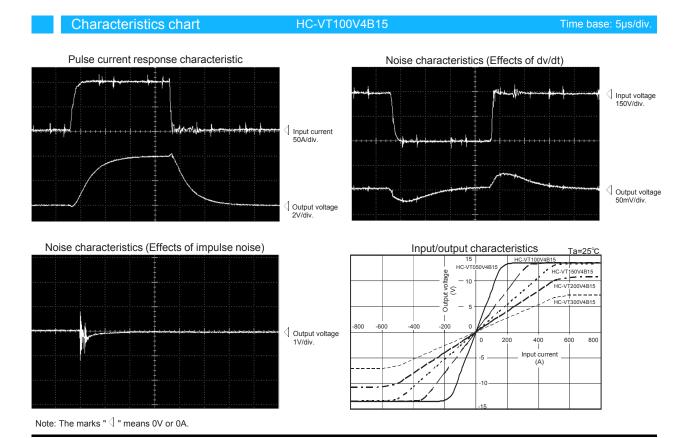




HC-VT series

Specification Ta=25°C Type HC-VT050V4B15 HC-VT100V4B15 HC-VT150V4B15 HC-VT200V4B15 HC-VT300V4B15 Rated current [If] $\pm 50A$ ±200A $\pm 300A$ $\pm 100A$ $\pm 150A$ Saturation current [ls] ±150A $\pm 300A$ $\pm 450A$ ±600A $\pm 600A$ Linearity limits 0~±150A 0~±300A 0~±400A 0~±400A 0~±400A +lf $V0+4V\pm1\%$ (RL= $10k\Omega$) Rated output -If $V0-4V\pm1\%$ (RL=10k Ω) Residual output [Vo] Within ±70mV Within ±50mV **Output linearity** Within ±1% Response time Within $10\mu s$ (The smaller one on either at di/dt = $100A/\mu s$ or $If/\mu s$.) Response performance Within 10% Hysteresis voltage range Within 200mV Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within Within ±3mV/°C Within ±2mV/°C Control power supply $\pm 15 V \pm 5\%$ Consumption current Within 60mA Operating Temp. -10°C~+80°C Storage Temp. -15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute Not less than $500M\Omega$ 500V DC Insulation resistance

Note1) The indicated residual output is the one after the core hysteresis is removed.







HC-ASA series

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For Automotive

Small-sized, medium-capacity type Bolt on type

HC-ASA

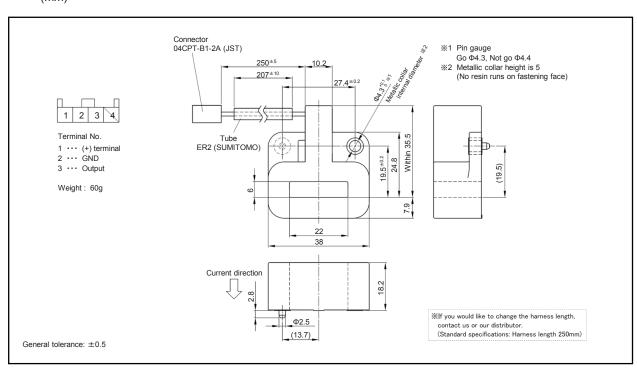


- Rated current 200A ~ 800A
- Small size handles large current (MAX 800A)
- Ensures broad operating temperature range $(-40^{\circ}C \sim +125^{\circ}C)$
- 5V single power supply ratio metric specifica-
- Attached to chassis, cable output specifications

Applications

HEV inverters, EV inverters, Current detection in on-board devices

Dimensions



HC-ASA series

Specification Ta=25°C

_						
Туре		HC-ASA200V2PP5-16	HC-ASA400V2PP5-16	HC-ASA600V2PP5-16	HC-ASA800V2PP5-16	
Rated current	[If]	±200A	±400A	±600A	±800A	
Saturation current	[ls]	±220A	±440A	±660A	±880A	
Linearity limits		0~±200A	0~±400A	0~±600A	0~±800A	
Rated output [Vh]	l=+lf	Within V0+2V × (Vcc/5) \pm 1.5% (RL=10k Ω)				
Rated output [Vh]	l=-If	Within V0-2V × (Vcc/5) \pm 1.5% (RL=10k Ω)				
Residual output [V0]	Within Vcc/2±30mV				
Output linearity			Within	±1%		
Response time		Within 10µs (at di/dt=100A/µs)				
Response performance		Within 10%				
Hysteresis voltage range		Within 30mV	Within 22mV	Within 16mV	Within 13mV	
Output Temp. Coef.			Within ±	0.04%/°C		
Residual output Temp. Coef.		Within ±1mV/°C	Within ±0.6mV/°C	Within ±0.5mV/°C	Within ±0.4mV/°C	
Control power supply [Vcc]		+5V:	±4%		
Power variation	l=±lf		3.5~	4.5%		
characteristics change [+5V±4%]	I=0	3.2~4.8%		3.5~4.5%		
Consumption current			Within	30mA		
Operating Temp.		-40°C~+125°C				
Storage Temp.		-40°C~+125°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance			Not less than 50	00MΩ 500V DC		

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Note2) Output specifications include $100-\Omega$ output resistance and 1-mA maximum output current.

Note3) Since residual output is ratiometric output, it varies according to the control power supply value.

Note4) Code at the end of the model name represents harness specifications.

HC-ASA800V2PP5-16 Characteristics chart Time base: 5µs/div. Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div. Output voltage 50mV/div. Output voltage 0.1V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C HC-ASA800V2PP5-16 HC-ASA600V2PP5-16 Output voltage 0.5V/div. 800 600 Input current (A)





HC-ASB series

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For Automotive

Small-sized, medium-capacity type Bolt on type

HC-ASB

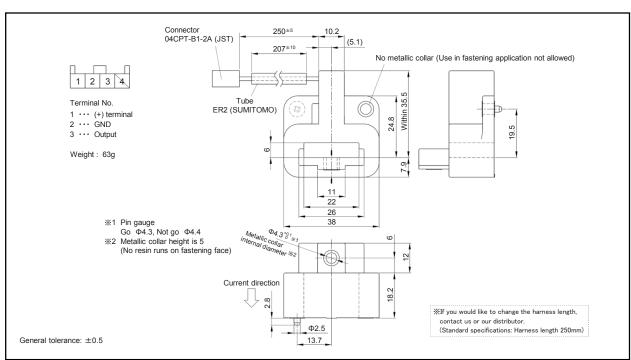


- Rated current 200A ~ 800A
- Small size handles large current (MAX 800A)
- Ensures broad operating temperature range $(-40^{\circ}C \sim +125^{\circ}C)$
- 5V single power supply ratio metric specifica-
- Attached to bus-bar, cable output specifications

Applications

HEV inverters, EV inverters, Current detection in on-board devices

Dimensions



HC-ASB series

Specification Ta=25°C

_						
Туре		HC-ASB200V2PP5-16	HC-ASB400V2PP5-16	HC-ASB600V2PP5-16	HC-ASB800V2PP5-16	
Rated current	[If]	±200A	±400A	±600A	±800A	
Saturation current	[ls]	±220A	±440A	±660A	±880A	
Linearity limits		0~±200A	0~±400A	0~±600A	0~±800A	
Rated output [Vh]	l=+lf		Within V0+2V × (Vcc/	5)±1.5% (RL=10kΩ)		
Rated output [Vh]	I=-If	Within V0-2V × (Vcc/5) \pm 1.5% (RL=10k Ω)				
Residual output [V0]	Within Vcc/2±30mV				
Output linearity		Within ±1%				
Response time		Within 10µs (at di/dt=100A/µs)				
Response performance		Within 10%				
Hysteresis voltage range		Within 30mV	Within 22mV	Within 16mV	Within 13mV	
Output Temp. Coef.			Within ±	0.04%/°C		
Residual output Temp. Coef.		Within ±1mV/°C	Within ±0.6mV/°C	Within ±0.5mV/°C	Within ±0.4mV/°C	
Control power supply [Vcc]		+5V:	±4%		
Power variation	l=±lf		3.5~	4.5%		
characteristics change [+5V±4%]	I=0	3.2~4.8%		3.5~4.5%		
Consumption current			Within	30mA		
Operating Temp.		-40°C~+125°C				
Storage Temp.		-40°C~+125°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance			Not less than 50	00MΩ 500V DC		

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Note2) Output specifications include $100-\Omega$ output resistance and 1-mA maximum output current.

Note3) Since residual output is ratiometric output, it varies according to the control power supply value.

Note4) Code at the end of the model name represents harness specifications.

HC-ASB800V2PP5-16 Characteristics chart Time base: 5µs/div. Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div. Output voltage 50mV/div. Output voltage 0.1V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C HC-ASA800V2PP5-16 HC-ASA600V2PP5-16 Output voltage 0.5V/div. 800 600 Input current (A)



HC-PZ series

Small-sized, medium-capacity type PCB-mounting type

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HC-PZ



- Rated current 50A ~ 800A
- Models available from low-to mediumcapacity
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

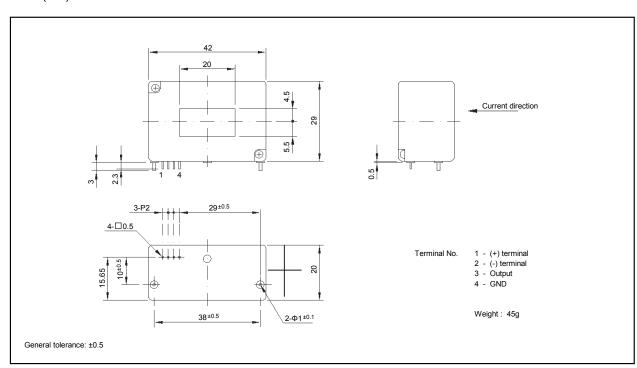




Applications

Inverters, Power supply equipment, NC machine tools

Dimensions



HC-PZ series

Specification Ta=25°C Туре HC-PZ050V4B15 HC-PZ100V4B15 HC-PZ300V4B15 HC-PZ600V4B15 HC-PZ800V4B15 Rated current [If] ±50A ±100A ±300A ±600A ±800A Saturation current ±1000A ±1000A ±150A ±300A ±900A [ls] Linearity limits 0~±150A 0~±300A 0~±700A 0~±800A 0~±800A Rated output [Vh] ±4V±1% Within ±50mV Residual output [Vo] Within ±1% **Output linearity** Response time Within $10\mu s$ (The smaller one on either at di/dt = $100A/\mu s$ or $If/\mu s$.) Response performance Within 10% Within 200mV Hysteresis voltage range Output Temp. Coef. Within ±0.1%/°C Within ±4mV/°C | Within ±2mV/°C Within ±1mV/°C Residual output Temp. Coef. Control power supply ±15V±5% Consumption current Within 30mA -10°C~+80°C Operating Temp. -15°C~+85°C Storage Temp. Dielectric withstand voltage 2500V AC 50/60Hz 1minute Not less than 500MΩ 500V DC Insulation resistance

Note1) The indicated rated output is the one when no load is applied.

Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PZ100V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div. Output voltage . 100mV/div. Output voltage Noise characteristics (Effects of impulse noise) Input/output characteristics Output voltage S HC-PZ600V4B15 Output voltage (A)



HC-PT series

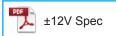
Small-sized, medium-capacity type PCB-mounting type

HC-PT



- Rated current 50A ~ 300A
- Three circuits can be measured at the same time
- Ferrite core specification also available (Rated current 50A ~ 100A)
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

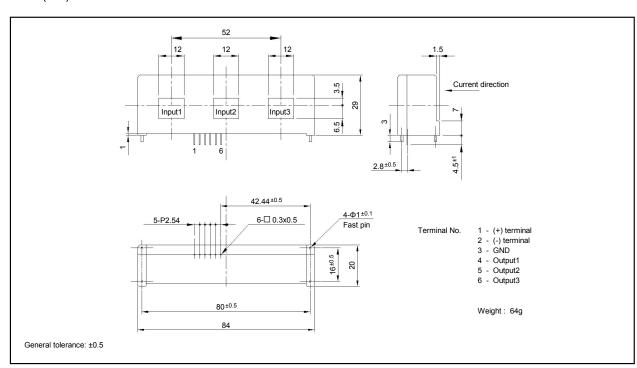




Applications

Inverters, Power supply equipment, NC machine tools

Dimensions



HC-PT series

Specification Ta=25°C Туре HC-PT050V4B15 HC-PT100V4B15 HC-PT150V4B15 HC-PT200V4B15 HC-PT300V4B15 Rated current [If] ±50A ±100A ±150A ±200A ±300A Saturation current ±450A ±600A ±600A ±150A ±300A [ls] Linearity limits 0~±150A 0~±300A 0~±400A 0~±400A 0~±400A Rated output [Vh] ±4V±1% Within ±50mV Residual output [Vo] Output linearity Within ±1% Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.) Response time Response performance Within 10% Within 200mV Hysteresis voltage range Output Temp. Coef. Within ±0.1%/°C Within ±4mV/°C Within ±2mV/°C Residual output Temp. Coef. Within ±3mV/°C Control power supply ±15V±5% Consumption current Within 60mA -10°C~+80°C Operating Temp. -15°C~+85°C Storage Temp. Dielectric withstand voltage 2500V AC 50/60Hz 1minute Not less than 500MΩ 500V DC Insulation resistance

Note1) The indicated rated output is the one when no load is applied.

Note2) The indicated residual voltage is the one after the core hysteresis is removed.

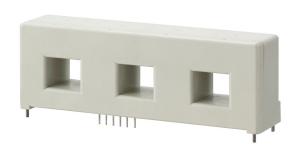
Characteristics chart HC-PT100V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage Input current 50A/div. Output voltage Output voltage Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C HC-PT150V4B15 HC-PT HC-PT200V4B15 S HC-PT300V4B15 Output voltage 800 5V/div.



HC-PTW series

Small-sized, medium-capacity type PCB-mounting type

HC-PTW



Rated current 50A ~ 300A

- Two circuits can be measured at the same time
- Ferrite core specification also available (Rated current 50A ~ 100A)
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

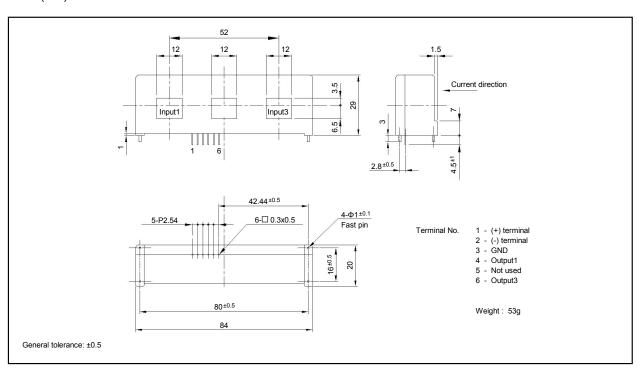




Applications

Inverters, Power supply equipment, NC machine tools

Dimensions



HC-PTW series

Specification Ta=25°C Туре HC-PTW050V4B15 | HC-PTW100V4B15 | HC-PTW150V4B15 | HC-PTW200V4B15 HC-PTW300V4B15 Rated current [If] ±50A ±100A ±150A ±200A ±300A Saturation current ±300A ±450A ±600A ±600A ±150A [ls] Linearity limits 0~±150A 0~±300A 0~±400A 0~±400A 0~±400A Rated output [Vh] ±4V±1% Within ±50mV Residual output [Vo] Within ±1% **Output linearity** Response time Within $10\mu s$ (The smaller one on either at di/dt = $100A/\mu s$ or $If/\mu s$.) Response performance Within 10% Within 200mV Hysteresis voltage range Output Temp. Coef. Within ±0.1%/°C Within ±4mV/°C Within ±2mV/°C Residual output Temp. Coef. Within ±3mV/°C Control power supply ±15V±5% Consumption current Within 40mA -10°C~+80°C Operating Temp. -15°C~+85°C Storage Temp. Dielectric withstand voltage 2500V AC 50/60Hz 1minute Not less than 500MΩ 500V DC Insulation resistance

Note1) The indicated rated output is the one when no load is applied.

Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PTW100V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage Input current 50A/div. Output voltage 50mV/div. Output voltage Noise characteristics (Effects of impulse noise) Input/output characteristics HC-PTW050V4B15 S Output voltage 800



HC-PG series

Small-sized, medium-capacity type PCB-mounting type

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HC-PG



- Rated current 50A ~ 300A
- Superior noise-resistance
- Ferrite core specification also available (Rated current 50A ~ 100A)
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below



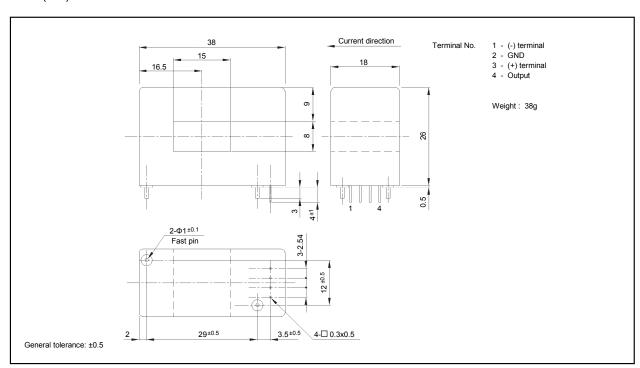


±12V Spec

Applications

Inverters, Power supply equipment, NC machine tools

Dimensions



Specification

Control power supply

Consumption current

Operating Temp.

Storage Temp.

Dielectric withstand voltage

Insulation resistance

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HC-PG series

Ta=25°C

Туре HC-PG050V4B15 HC-PG100V4B15 HC-PG150V4B15 HC-PG200V4B15 HC-PG300V4B15 Rated current ±50A ±100A ±150A ±200A ±300A [If] Saturation current [ls] ±150A ±300A ±450A ±600A ±900A Linearity limits 0~±150A 0~±300A 0~±450A 0~±500A 0~±700A Rated output ±4V±1% [Vh] Within ±50mV Residual output [Vo] Within ±1% **Output linearity** Response time Within 10µs (The smaller one on either at di/dt = 100A/µs or If/µs.) Response performance Within 10% Within 100mV Hysteresis voltage range Within ±0.1%/°C Output Temp. Coef. Within ±2mV/°C Residual output Temp. Coef. Within ±4mV/°C Within ±3mV/°C

±15V±5%

Within 30mA

-10°C~+80°C

-15°C~+85°C

2500V AC 50/60Hz 1minute

Not less than 500MΩ 500V DC

Note1) The indicated rated output is the one when no load is applied.

Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PG100V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div Input current 50A/div. Output voltage Output voltage Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C HC-PG150V4B15 3 -PG300V4B15 1000 -800 Output voltage 800 1000 Input current

HC-PJ series

Small-sized, low-capacity type PCB-mounting type

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HC-PJ



■ Rated current 50A ~ 200A

- Superior noise-resistance
- Ferrite core specification also available (Rated current 50A ~ 100A)
- Single-power supplies also available
- For additional ±12V products, contact sales@dgseals.com or click below

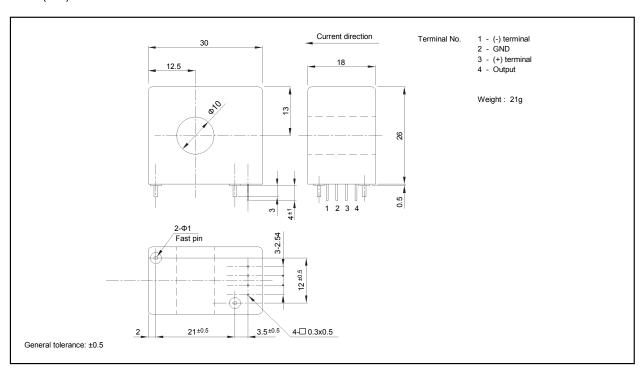


±12V Spec

Applications

Inverters, Power supply equipment, NC machine tools

Dimensions



HC-PJ series

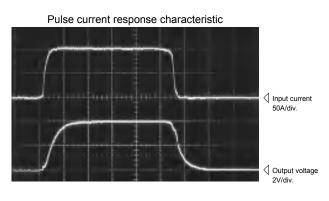
Specification Ta=25°C

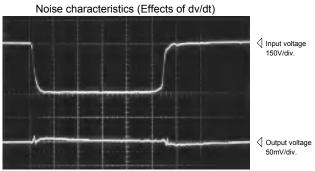
Туре	HC-PJ050V4B15	HC-PJ100V4B15	HC-PJ150V4B15	HC-PJ200V4B15		
Rated current [If]	±50A	±100A	±150A	±200A		
Saturation current [ls]	±150A	±300A	±450A	±600A		
Linearity limits	0~±150A	0~±300A	0~±450A	0~±500A		
Rated output [Vh]		±4V	±1%			
Residual output [Vo]		Within	±50mV			
Output linearity		Within	n ±1%			
Response time	Within 10µ	s (The smaller one on	either at di/dt = 100A/	μs or If/μs.)		
Response performance	Within 10%					
Hysteresis voltage range		Within	100mV			
Output Temp. Coef.		Within ±	0.1%/°C			
Residual output Temp. Coef.	Within ±4mV/°C	Within ±	:3mV/°C	Within ±2mV/°C		
Control power supply		±15\	/±5%			
Consumption current	Within 30mA					
Operating Temp.	-10°C~+80°C					
Storage Temp.	-15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 500MΩ 500V DC				

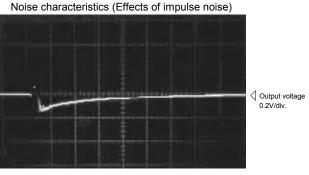
Note1) The indicated rated output is the one when no load is applied.

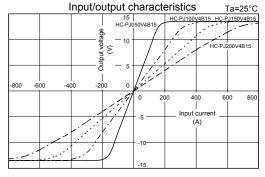
Note2) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PJ100V4B15 5µs/div. Time base











HC-PVT series

Small-sized, low-capacity type PCB-mounting type

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HC-PVT



- Rated current 10A ~ 50A
- Well isolated for European Standards
- Three circuits can be measured at the same time
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below



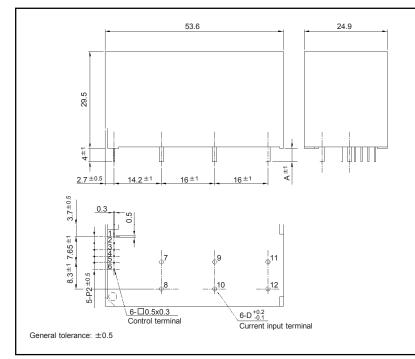


Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS)

Dimensions

(mm)



Dimensions of Current Input Terminals

Size of primary winding	Width D	Width A
Ф0.8	Ф0.8	4
Ф1.0	Ф1.0	4
Ф1.3	Ф1.3	4
Ф1.6	Ф1.6	4

Terminal No.

- 1 (+) terminal
- (-) terminal GND
- Output1
 Output2
- Output3 (+) input1
- 8 (-) input1
- 9 (+) input2
- 10 (-) input2 11 (+) input3 12 (-) input3

Weight: 50g

HC-PVT series

Specification Ta=25°C

Туре	HC-PVT10V4B15	HC-PVT20V4B15	HC-PVT30V4B15	HC-PVT50V4B15	
Rated current [1	1 ±10A	±20A	±30A	±50A	
Continuously flowing DC current	±13.8A	±13.8A	±23.3A	±35.4A	
Saturation current [Is) ±27.6A	±46A	±69A	±138A	
Linearity limits	0~±20A	0~±33.3A	0~±50A	0~±100A	
Size of primary winding	Ф1.0	Ф1.0	Ф1.3	Ф1.6	
Turns	5	3	2	1	
Rated output [V]	V0±4V±2%	% (RL=10kΩ)		
Residual output [V]	Within ±100mV			
Output linearity		Within ±1%			
Response time		Within 10µs (at di/dt=If/µs)			
Response performance		Within	n 10%		
Hysteresis voltage range		Within	100mV		
Output Temp. Coef.		Within ±	:0.1%/°C		
Residual output Temp. Coef.		Within ±	±3mV/°C		
Control power supply		±15\	/±5%		
Consumption current		Within 60mA			
Operating Temp.		-10°C~+80°C			
Storage Temp.		-15°C~+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute			
Insulation resistance		Not less than 5	00MΩ 500V DC		

Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart HC-PVT10V4B15 Time base: 5µs/div. Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Input/output characteristics Ta=25°C Output voltage 2V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C Output voltage 2V/div. Output voltage 2V/div.



HC-PSG series

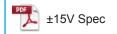
Small-sized, low-capacity type PCB-mounting type

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HC-PSG



- Rated current 1A ~ 50A
- Superior noise-resistance
- Models available from 1A
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below





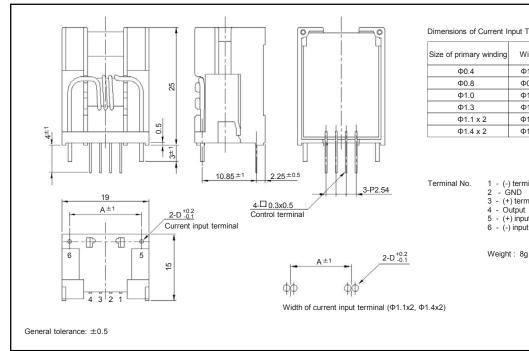
±12V Spec

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS)

Dimensions

(mm)



Dimensions	ot	Current	Input	Terminals

Size of primary winding	Width D	Width A
Ф0.4	Ф1.3	15.7
Ф0.8	Ф0.8	15.7
Ф1.0	Ф1.0	15.7
Ф1.3	Ф1.3	15.7
Ф1.1 х 2	Ф1.1 х 2	14.3
Ф1.4 х 2	Ф1.4 х 2	14.3

1 - (-) terminal 2 - GND

3 - (+) terminal 4 - Output

5 - (+) input 6 - (-) input

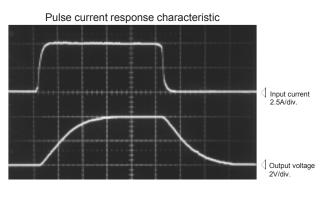
HC-PSG series

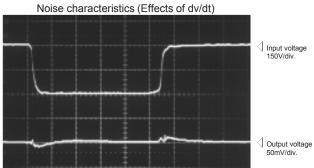
Specification Ta=25°C

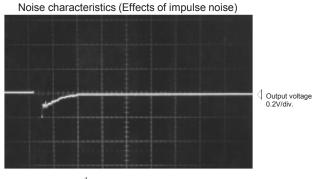
Туре	HC-	HC-	HC-	HC-	HC-	HC-
Rated current [If]	±1A	±5A	±10A	±20A	±30A	±50A
Continuously flowing DC current	±2.2A	±8.8A	±13.8A	±23.3A	±33.4A	±54.1A
Saturation current [Is]	±3A	±15A	±30A	±45A	±90A	±90A
Linearity limits	0~±2.5A	0~±12.5A	0~±25A	0~±37.5A	0~±75A	0~±75A
Size of primary winding	Ф0.4	Ф0.8	Ф1.0	Ф1.3	Ф1.1 х 2	Ф1.4 х 2
Turns	30	6	3	2	1	1
Rated output [Vh			±4V±2%	$(RL=10k\Omega)$		
Residual output [Vo		Within ±100mV				
Output linearity		Within ±1%				
Response time		Within 10µs (at di/dt=If/µs)				
Response performance			Withi	n 10%		
Hysteresis voltage range			Within	100mV		
Output Temp. Coef.			Within ±	=0.1%/°C		
Residual output Temp. Coef.			Within =	±6mV/°C		
Control power supply			±15\	/±5%		
Consumption current		Within 30mA				
Operating Temp.	-10°C~+80°C					
Storage Temp.		-15°C~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance			Not less than 5	00MΩ 500V DC		

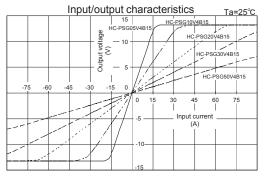
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart HC-PSG05V4B15 Time base: 5µs/div.









Note: The marks " \(\text{" means 0V or 0A.} \)



HC-PSE series

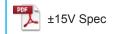
Small-sized, low-capacity type **PCB-mounting type**

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HC-PSE



- Rated current 5A ~ 50A
- Well isolated for European Standards
- Superior noise-resistance
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below





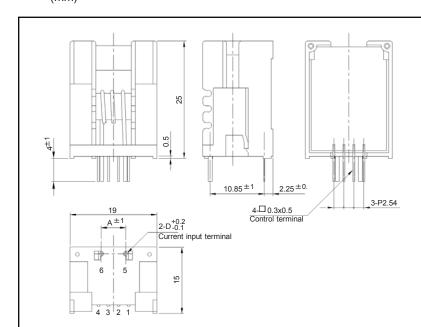
±12V Spec

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS)

Dimensions

(mm)



Dimensions of Current Input Terminals

Size of primary winding	Width D	Width A
Ф0.8	Ф0.8	5.7
Ф1.0	Ф1.0	5.7
Ф1.3	Ф1.3	5.7
Ф1.6	Ф1.6	5.2

Terminal No.

- 1 (-) terminal 2 GND
- 3 (+) terminal 4 Output
- 5 (+) input 6 (-) input

Weight: 8g

General tolerance: ±0.5

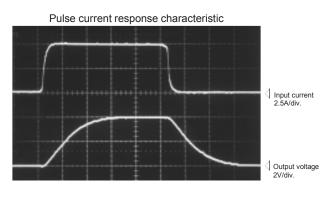
HC-PSE series

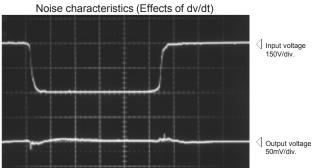
Specification Ta=25°C

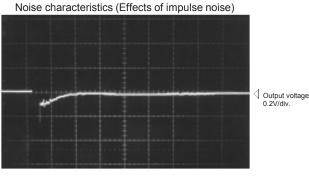
Туре		HC-PSE05V4B15	HC-PSE10V4B15	HC-PSE20V4B15	HC-PSE30V4B15	HC-PSE50V4B15	
Rated current [f]	±5A	±10A	±20A	±30A	±50A	
Continuously flowing DC current	Continuously flowing DC current		±13.8A	±23.3A	±23.3A	±35.4A	
Saturation current [s]	±15A	±30A	±45A	±90A	±90A	
Linearity limits		0~±12.5A	0~±25A	0~±37.5A	0~±75A	0~±75A	
Size of primary winding		Ф0.8	Ф1.0	Ф1.3	Ф1.3	Ф1.6	
Turns		6	3	2	1	1	
Rated output [\	'n]		±4V±2% (RL=10kΩ)				
Residual output [\	'o]	Within ±100mV					
Output linearity		Within ±1%					
Response time	Within 10μs (at di/dt=lf/μs)						
Response performance	Within 10%						
Hysteresis voltage range	Within 100mV						
Output Temp. Coef.				Within ±0.1%/°C			
Residual output Temp. Coef.				Within ±6mV/°C			
Control power supply				±15V±5%			
Consumption current		Within 30mA					
Operating Temp.		-10°C~+80°C					
Storage Temp.		-15°C~+85°C					
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance Not less than 500MΩ 500V DC							

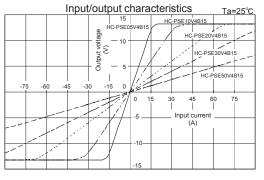
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart HC-PSE05V4B15 Time base: 5µs/div.











HC-PD series

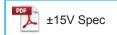
Very small-sized, low-capacity type PCB-mounting type

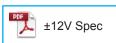
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HC-PD



- Rated current 5A ~ 50A
- Reduced height compact design
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below



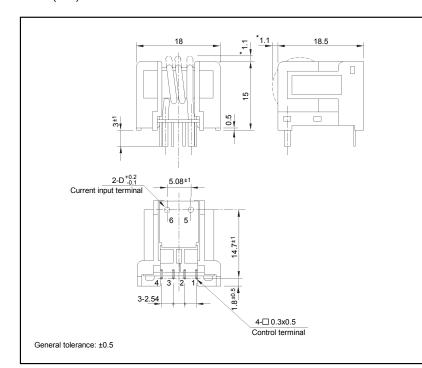


Applications

Inverters, Servo drivers, NC machine tools

Dimensions

(mm)



Dimensions of Current Input Terminals
Size of primary winding Width D

Size of primary winding	Width D
Ф0.8	Ф0.8
Ф1.3	Ф1.3
Ф1.6	Ф1.6

Note) The dimensions marked with * are protruded areas of the primary winding

Terminal No.

1 - (-) terminal 2 - GND

3 - (+) terminal

4 - Output 5 - (+) input

6 - (-) input

Weight: 6g

HC-PD series

(A)

Specification Ta=25°C

Type	HC-PD05V4B15	HC-PD10V4B15	HC-PD20V4B15	HC-PD30V4B15	HC-PD50V4B15	
Rated current [If]	±5A	±10A	±20A	±30A	±50A	
Continuously flowing DC current	±8.8A	±23.3A	±23.3A	±35.4A	±35.4A	
Saturation current [Is]	±15A	±30A	±45A	±90A	±90A	
Linearity limits	0~±12.5A	0~±25A	0~±37.5A	0~±75A	0~±75A	
Size of primary winding	Ф0.8	Ф1.3	Ф1.3	Ф1.6	Ф1.6	
Turns	6	3	2	1	1	
Rated output [Vh]		±4V±2% (RL=10kΩ)				
Residual output [Vo]		Within ±100mV				
Output linearity		Within ±1%				
Response time	Within 10µs (at di/dt=lf/µs)					
Response performance	Within 10%					
Hysteresis voltage range	lysteresis voltage range Within 100mV					
Output Temp. Coef.	Output Temp. Coef. Within ±0.1%/°C					
Residual output Temp. Coef.			Within ±6mV/°C			
Control power supply			±15V±5%			
Consumption current		Within 30mA				
Operating Temp.	-10°C~+80°C					
Storage Temp.	-15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 500MΩ 500V DC				

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Pulse current response characteristic Pulse current response characteristic Input current 2.5A/div. Output voltage 2V/div. Noise characteristics (Effects of dv/dt) Input current 2.5A/div. Input current 2.5A/div. Input/output characteristics Input/output characteristics Ta=25°C High-Doosyalis | High-Do

Output voltage 5V/div.

HC-PDG series

Very small-sized, low-capacity type **PCB-mounting type**

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HC-PDG



- Rated current 5A ~ 50A
- Superior noise-resistance
- Superior saturation characteristics
- Reduced height compact design
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below



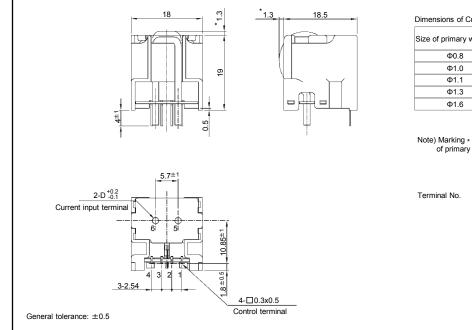


Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions

(mm)



Dimensions of Current Input Terminals					
Size of primary winding	Width D				

size of primary winding	WIGHT
Ф0.8	Ф0.8
Ф1.0	Ф1.0
Ф1.1	Ф1.1
Ф1.3	Ф1.3
Ф1.6	Ф1.6

Note) Marking * mean maximum dimensions of primary winding protuberant.

1 - (-) terminal 2 - GND 3 - (+) terminal 4 - Output

5 - (+) input 6 - (-) input

Weight: 9g

HC-PDG series

Specification Ta=25° C

Туре		HC-PDG05V4B15	HC-PDG10V4B15	HC-PDG20V4B15	HC-PDG30V4B15	HC-PDG50V4B15
Rated current	[If]	±5A	±10A	±20A	±30A	±50A
Continuously flowing DC curre	nt	±8.8A	±13.8A	±23.3A	±23.3A	±35.4A
Saturation current	Saturation current [Is]		±25A	±50A	±75A	±150A
Linearity limits	Linearity limits		0~±22.5A	0~±45A	0~±67.5A	0~±135A
Size of primary winding		Ф0.8	Ф1.0	Ф1.3	Ф1.3	Ф1.6
Turns		10	6	3	2	1
Rated output	±4V±1.5% (RL=10kΩ)					
Residual output	[Vo]	Within ±50mV				
Output linearity	Within ±1%					
Response time	Within 10μs (at di/dt=lf/μs)					
Response performance	Within 10%					
Hysteresis voltage range	Within 60mV					
Output Temp. Coef.		Within ±0.1%/° C				
Residual output Temp. Coef.		Within ±2mV/° C				
Control power supply		±15V±5%				
Consumption current Within 20mA						
Operating Temp.		-10° C~+80° C				
Storage Temp.	-15° C~+85° C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance	Not less than 500MΩ 500V DC					

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PDG20V4B15 5μs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 10A/div. Output voltage 50mV/div. Output voltage 2V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25° C HC-PDG10V4B15 HC-PDG20V4B15 HC-PDG30V4B15 Output voltage (V) Output voltage 0.2V/div.

Note: The marks " \(\text{" means 0V or 0A.} \)



HC-PDN series

Very small-sized, low-capacity type PCB-mounting type

HC-PDN



- Rated current 5A ~ 50A
- Well isolated for European Standards
- Superior noise-resistance
- Reduced height compact design
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below



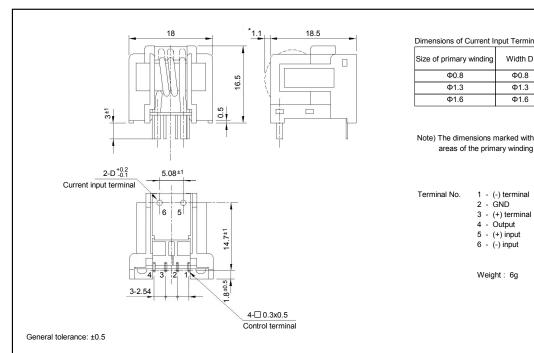


Applications

Inverters, Servo drivers, NC machine tools

Dimensions

(mm)



Note) The dimensions marked with * are protruded

1 - (-) terminal

HC-PDN series

Specification Ta=25°C

Туре	HC-PDN05V4B15	HC-PDN10V4B15	HC-PDN20V4B15	HC-PDN30V4B15	HC-PDN50V4B15	
Rated current [If	±5A	±10A	±20A	±30A	±50A	
Continuously flowing DC current	±8.8A	±23.3A	±23.3A	±35.4A	±35.4A	
Saturation current [Is	±15A	±30A	±45A	±90A	±90A	
Linearity limits	0~±12.5A	0~±25A	0~±37.5A	0~±75A	0~±75A	
Size of primary winding	Ф0.8	Ф1.3	Ф1.3	Ф1.6	Ф1.6	
Turns	6	3	2	1	1	
Rated output [Vh	1	±4V±2% (RL=10kΩ)				
Residual output [Vo	1	Within ±100mV				
Output linearity		Within ±1%				
Response time		Within 10µs (at di/dt=lf/µs)				
Response performance		Within 10%				
Hysteresis voltage range		Within 100mV				
Output Temp. Coef.		Within ±0.1%/°C				
Residual output Temp. Coef.		Within ±6mV/°C				
Control power supply			±15V±5%			
Consumption current	Within 30mA					
Operating Temp.	-10°C~+80°C					
Storage Temp15°C~+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 500MΩ 500V DC				

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

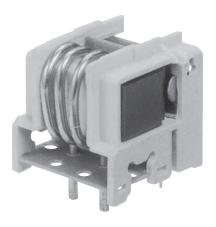
Characteristics chart HC-PDN05V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage Input current 2.5A/div. Output voltage Output voltage 2V/div. 50mV/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C S Output voltage 0.2V/div.

HC-PDA series

Very small-sized, low-capacity type PCB-mounting type

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HC-PDA

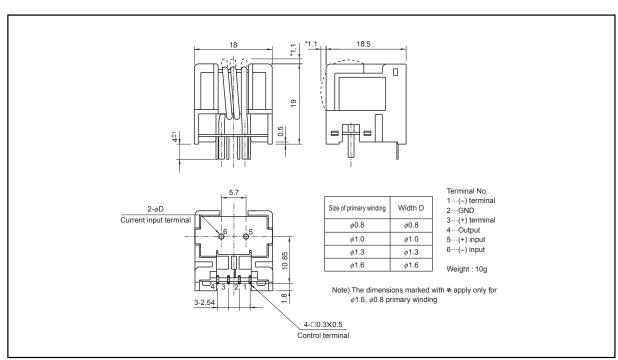


- Rated current ······5A~50A
- Superior noise-resistance
- Superior saturation characteristics
- Reduced height compact design

Applications

Inverters, servo drivers, NC machine tools

Dimensions



HC-PDA series

Specification Ta=25°C

Туре		HC-PDA05V4B15	HC-PDA10V4B15	HC-PDA20V4B15	HC-PDA30V4B15	HC-PDA50V4B15	
Rated current	[lf]	±5A	±10A	±20A	±30A	±50A	
Saturation current	[ls]	±15A	±25A	±50A	±75A	±150A	
Linearity limits		0~±13.5A	0~±22.5A	0~±45A	0~±67.5A	0~±135A	
Size of primary winding		ф0.8	φ1.0	φ1.3	φ1.3	φ1.6	
Rated output	[Vh]	±4V±1.5% (RL=10kΩ)					
Residual output	[Vo]	Within ±50mV					
Output linearity		Within ±1%					
Response time		Within $10\mu s$ (at di/dt=If/ μs)					
Output Temp. Coef.			Within ±0.1%/°C				
Residual output Temp. Coe	ef.	Within ±3mV/°C					
Control power supply			±15V±5%				
Operating Temp.		−10°C~+75°C					
Storage Temp.		−15°C~+85°C					
Dielectric withstand voltag	e	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 500MΩ 500V DC					

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Note2) For continuously flowing DC currents, see the principal characteristics marked by an asterisk (※) on page 1-5.

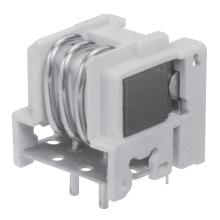
Characteristics chart Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input current 2.5A/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Input/output characteristics Ta=25°C Ta=25°C

HC-PAE series

Very small-sized, low-capacity type PCB-mounting type

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HC-PAE

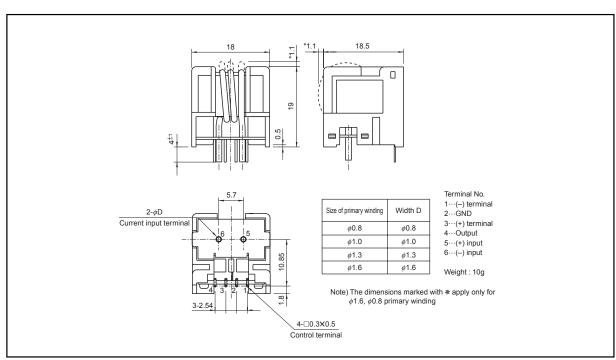


- Well isolated for European Standards
- Rated current ······5A~50A
- Superior noise-resistance
- Superior saturation characteristics
- Reduced height compact design

Applications

Inverters, servo drivers, NC machine tools

Dimensions

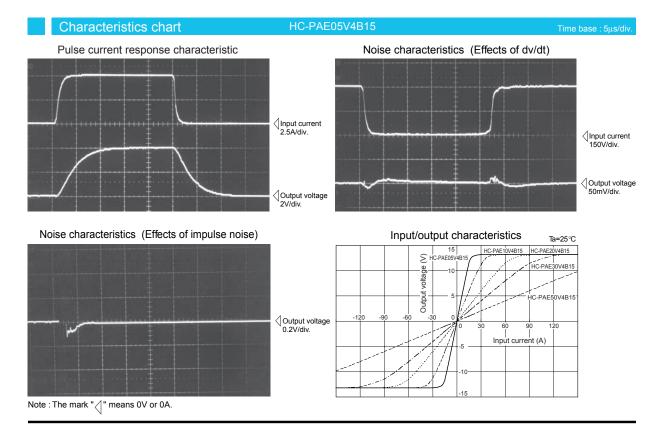


HC-PAE series

Specification Ta=25°C HC-PAE05V4B15 HC-PAE10V4B15 HC-PAE20V4B15 HC-PAE30V4B15 HC-PAE50V4B15 Type Rated current [lf] ±5A $\pm 10A$ ±20A ±30A ±50A Saturation current [ls] ±15A $\pm 25A$ ±50A ±75A ±150A Linearity limits 0~±13.5A 0~±22.5A 0~±45A 0~±67.5A 0~±135A Size of primary winding φ0.8 φ1.0 φ1.3 φ1.3 φ1.6 Rated output [Vh] $\pm 4V\pm 1.5\%$ (RL=10k Ω) Residual output [Vo] Within ±50mV **Output linearity** Within ±1% Within $10\mu s$ (at di/dt=lf/ μs) Response time Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±3mV/°C Control power supply ±15V±5% Operating Temp. -10°C~+75°C Storage Temp. -15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute Insulation resistance Not less than 500M Ω 500V DC

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Note2) For continuously flowing DC currents, see the principal characteristics marked by an asterisk (**) on page 1-5.





HC-PDK series

Very small-sized, low-capacity type PCB-mounting type

HC-PDK



- Rated current 50A ~ 100A
- Superior noise-resistance
- Superior saturation characteristics
- Reduced height compact design
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

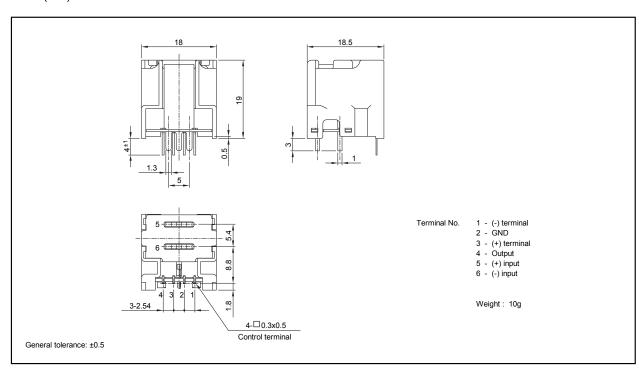




Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools. Welders

Dimensions



HC-PDK series

Specification Ta=25°C

Туре		HC-PDK50V4B15	HC-PDK60V4B15	HC-PDK100V4B15	
Rated current [[If]	±50A	±60A	±100A	
Continuously flowing DC current	t		±100A		
Saturation current [ls]		±150A		
Linearity limits			0~±135A		
Size of primary busbar			Busbar 1 x 7.8		
Turns			1		
Rated output [Vh]		±4V±1.5% (RL=10kΩ)		
Residual output [Vo]	Within ±50mV			
Output linearity		Within ±1%			
Response time		Within 10µs (at di/dt=lf/µs)			
Response performance			Within 10%		
Hysteresis voltage range			Within 60mV		
Output Temp. Coef.			Within ±0.1%/°C		
Residual output Temp. Coef.			Within ±2mV/°C		
Control power supply			±15V±5%		
Consumption current			Within 20mA		
Operating Temp.		-10°C~+80°C			
Storage Temp.		-15°C~+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute			
Insulation resistance		١	Not less than 500MΩ 500V DO	2	

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PDK60V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 30A/div. Output voltage 50mV/div. Output voltage Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C I HC-PDK50V4B1 Output voltage HC-PDK60V4B15 3 Output voltage 0.2V/div. -10

HC-PL series

Very small-sized, low-capacity type PCB-mounting type

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HC-PL



- Rated current 5A ~ 30A
- Requires little space on the PCB
- Single-power supllies also avaiable
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below



±15V Spec



Width D Ф0.6

Ф0.8

Ф1.0

Ф1.3

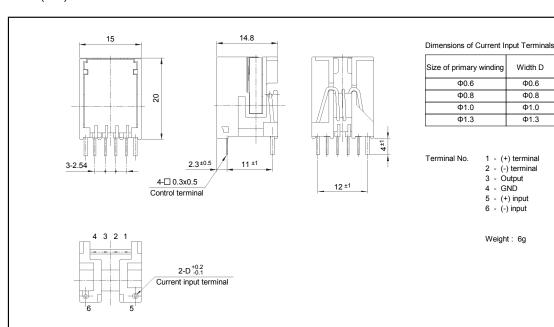
±12V Spec

Applications

Inverters, Srevo drivers, Power supply equipment, NC machine tools

Dimensions

(mm)



General tolerance: ±0.5

HC-PL series

Specification Ta=25°C

Туре	HC-PL05V4B15	HC-PL10V4B15	HC-PL20V4B15	HC-PL30V4B15
Rated current [If]	±5A	±10A	±20A	±30A
Continuously flowing DC current	±8.8A	±8.8A	±13.8A	±23.3A
Saturation current [Is]	±12.5A	±25A	±37.5A	±75A
Linearity limits	0~±10A	0~±20A	0~±30A	0~±60A
Size of primary winding	Ф0.8	Ф0.8	Ф1.0	Ф1.3
Turns	6	3	2	1
Rated output [Vh]		±4V±2% (RL=10kΩ)	
Residual output [Vo]	Within ±100mV			
Output linearity	Within ±1%			
Response time	Within 10µs (at di/dt=If/µs)			
Response performance		Withi	า 10%	
Hysteresis voltage range		Within	100mV	
Output Temp. Coef.		Within ±	0.1%/°C	
Residual output Temp. Coef.		Within ±	:2mV/°C	
Control power supply		±15\	/±5%	
Consumption current	Within 30mA			
Operating Temp.	-10°C~+80°C			
Storage Temp.	-15°C~+85°C			
Dielectric withstand voltage	2500V AC 50/60Hz 1minute			
Insulation resistance		Not less than 5	00MΩ 500V DC	

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PL10V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) √ Input voltage 150V/div. Input current 5A/div. Output voltage Output voltage 50mV/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C 15 HC-PL05V4B1 S Output voltage



HC-PFG series

Thin-sized, low-capacity type PCB-mounting type

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HC-PFG



Rated current 3A ~ 30A

- Well isolated for European Standards
- Superior noise-resistance
- Small mounting surface (SIP type)
- Single-power supplies also available
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below





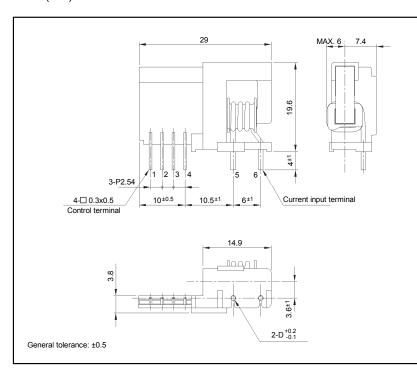
±12V Spec

Applications

Inverters, Servo drivers, NC machine tools

Dimensions

(mm)



Dimensions of Current Input Terminals

Size of primary winding	Width D
Ф0.5	Ф0.5
Ф0.6	Ф0.6
Ф0.8	Ф0.8
Ф1.0	Ф1.0
Ф1.1	Ф1.1
Ф1.3	Ф1.3

Terminal No.

- 1 (-) terminal
- 2 GND 3 - (+) terminal
- 4 Output
- 5 (-) input
- 6 (+) input

Weight: 6g

HC-PFG series

Specification Ta=25°C

Type	HC-PFG03V4B15	HC-PFG05V4B15	HC-PFG10V4B15	HC-PFG20V4B15	HC-PFG30V4B15	
Rated current [If	±3A	±5A	±10A	±20A	±30A	
Continuously flowing DC current	±5A	±8.8A	±8.8A	±23.3A	±23.3A	
Saturation current [Is	±9A	±9A ±15A ±30A ±60A ±75A				
Linearity limits	0~±7.5A	0~±12.5A	0~±25A	0~±60A	0~±62.5A	
Size of primary winding	Ф0.6	Ф0.8	Ф0.8	Ф1.3	Ф1.3	
Turns	16	10	5	2	2	
Rated output [Vi		±4V±2% (RL=10kΩ)				
Residual output [Vo	1	Within ±100mV				
Output linearity		Within ±1%				
Response time		With	in 10µs (at di/dt=l	f/µs)		
Response performance			Within 10%			
Hysteresis voltage range			Within 100mV			
Output Temp. Coef.			Within ±0.1%/°C			
Residual output Temp. Coef.			Within ±3mV/°C			
Control power supply			±15V±5%			
Consumption current		Within 30mA				
Operating Temp.	-10°C~+80°C					
Storage Temp.		-15°C~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 500MΩ 500V DC				

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

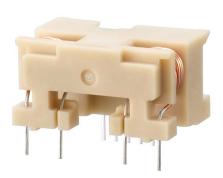
Characteristics chart HC-PFG10V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 5A/div. Output voltage 50mV/div. Output voltage Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C HC-PFG05V4B15 HC-PFG10V4B15 Output voltage 3 Output voltage 50 62.5 0.5V/div. Input current



HC-PRC series

Small-sized, low-capacity type PCB-mounting type

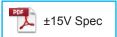
HC-PRC



Applications

Inverters, Servo drivers, NC machine tools

- Rated current 3A ~ 20A
- Well isolated for European Standards
- Compact design: height has been kept down to 12.0 mm
- Single-power supplies also available
- Two circuits can be measured at the same time
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

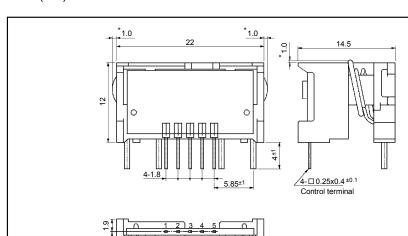




±12V Spec

Dimensions

(mm)



Current input terminal

Dimensions of Current Input Terminals			
Size of primary winding	Width D		
Ф0.45	Ф0.45		

Ф0.6

Ф0.9

Note) The dimensions marked with * are protruded areas of the primary winding

Ф0.6

Ф0.9

Terminal No.

- 1 (+) terminal
- 2 (-) terminal 3 - Output1
- 4 Output2
- 5 GND
- 6 (+) input 7 - (-) input
- 8 (+) input
- 9 (-) input

Weight: 5g

General tolerance: ±0.5

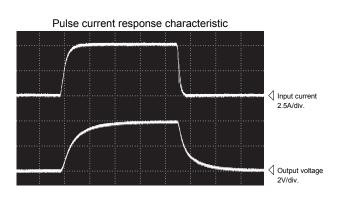
HC-PRC series

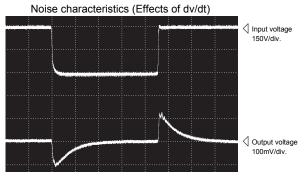
Specification Ta=25°C

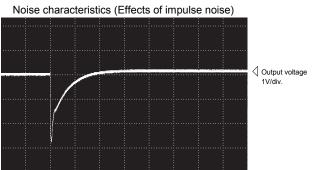
Туре		HC-PRC03V4B15	HC-PRC05V4B15	HC-PRC10V4B15	HC-PRC20V4B15	
Rated current [If]	±3A	±5A	±10A	±20A	
Continuously flowing DC current		±3.5A	±3.5A	±8.8A	±8.8A	
Saturation current [Is]	±9A	±15A	±30A	±45A	
Linearity limits		0~±7.5A	0~±12.5A	0~±25A	0~±37.5A	
Size of primary winding		Ф0.45	Ф0.45	Ф0.9	Ф0.9	
Turns		10	6	3	2	
Potod output [1/h]	+lf		V0+4V±1.5%	% (RL=10kΩ)		
Rated output [Vh]	-If		V0-4V±1.5% (RL=10kΩ)			
Residual output [Vo]	Within ±100mV				
Output linearity		Within ±1%				
Response time		Within 10μs (at di/dt=lf/μs)				
Response performance		Within 10%				
Hysteresis voltage range		Within 120mV				
Output Temp. Coef.		Within ±0.1%/°C				
Residual output Temp. Coef.		Within ±3mV/°C				
Control power supply		±15V±5%				
Consumption current		Within 40mA				
Operating Temp.		-10°C~+80°C				
Storage Temp.		-15°C~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 500MΩ 500V DC				

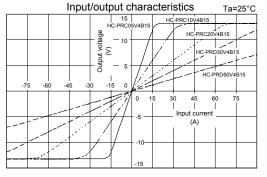
Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PRC05V4B15 5µs/div. Time base







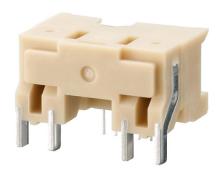


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Small-sized, low-capacity type PCB-mounting type

HC-PRD



Applications

Inverters, Servo drivers, NC machine tools

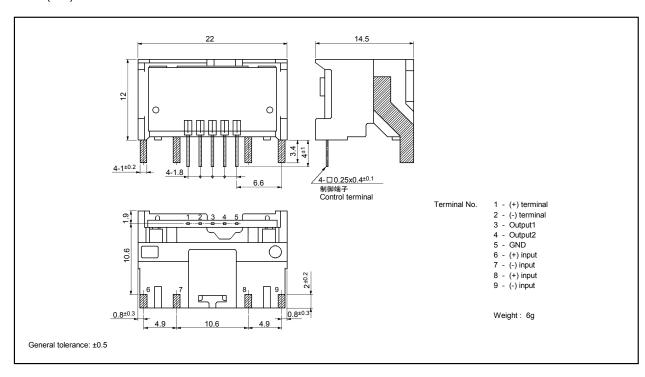
- Rated current 25A ~ 50A
- Well isolated for European Standards
- Compact design: height has been kept down to 12.0 mm
- Single-power supplies also available
- Two circuits can be measured at the same time
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below





±12V Spec

Dimensions



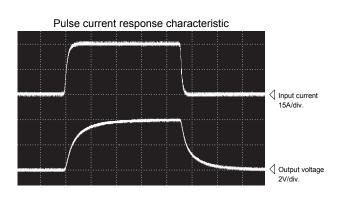
HC-PRD series

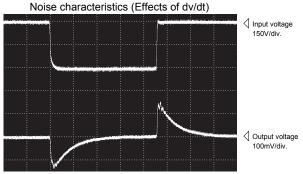
Specification Ta=25°C

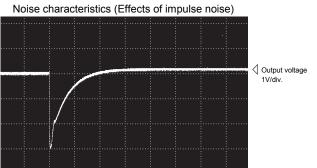
Туре		HC-PRD25V4B15	HC-PRD30V4B15	HC-PRD40V4B15	HC-PRD50V4B15	
Rated current [If]		±25A	±30A	±40A	±50A	
Continuously flowing DC current	Continuously flowing DC current		±35A	±35A	±35A	
Saturation current [Is]	±75A	±90A	±90A	±90A	
Linearity limits		0~±75A	0~±75A	0~±75A	0~±75A	
Size of primary busbar		□1 x 2	□1 x 2	□1 x 2	□1 x 2	
Turns		1	1	1	1	
Potod output [1/h]	+If		V0+4V±1.5%	% (RL=10kΩ)		
Rated output [Vh]	-If		V0-4V±1.5% (RL=10kΩ)			
Residual output [Vo]	Within ±100mV				
Output linearity		Within ±1%				
Response time		Within 10μs (at di/dt=lf/μs)				
Response performance		Within 10%				
Hysteresis voltage range		Within 120mV				
Output Temp. Coef.		Within ±0.1%/°C				
Residual output Temp. Coef.		Within ±3mV/°C				
Control power supply		±15V±5%				
Consumption current		Within 40mA				
Operating Temp.	Operating Temp.			-10°C~+80°C		
Storage Temp.			-15°C~+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance	Insulation resistance		Not less than 500MΩ 500V DC			

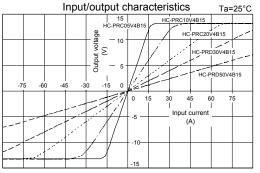
Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HC-PRD30V4B15 5µs/div. Time base











HC-PRX series

Small-sized, low-capacity type PCB-mounting type

HC-PRX

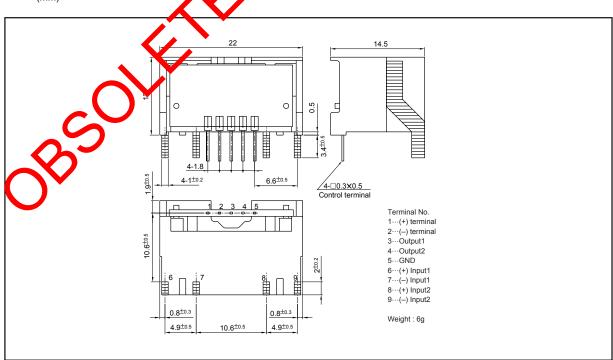


- Well isolated for European Standards
- Rated current ······ 25A ~ 50A
- Compact design : height has been sept down to 12.0mm
- Single-power supplies also valable
- Two circuits can be measured at the same time.

Applications

Inverters, servo drivers, NC machine tools

Dimensions





HC-PRX series

Specification Ta=25°C

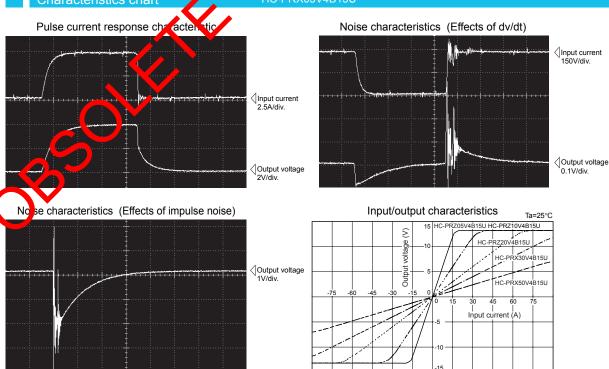
Type	HC-PRX25V4B15	U HC-PRX30V4B15U	HC-PRX40V4B15U	HC-PRX50V4B15U		
Rated current	lf] ±25A	±30A	±40A	±50A		
Saturation current	s] ±75A	±90A	±90A	±90A		
Linearity limits	0~±75A	0~±75A	0~±75A	0~±75A		
Size of primary winding	□1X2	□1X2	□1X2	□1)2		
Turns	1	1	1			
Rated output [\	h] ±	4V±1.5% (RL=10kΩ)(end	cluding the residual ou	tput)		
Residual output [0]	Within :	±100mV	O		
Output linearity		Within ±1%				
Response time		Within 10μs (at di/dt=lf/			
Response performance		Withi	า 10%			
Hysteresis voltage range		Within	120mV			
Output Temp. Coef.		Within	.∪1%.℃			
Residual output Temp. Coef.		Within	mV/°C			
Control power supply		±10\	/ 1 5%			
Consumption current		Within	40mA			
Operating Temp.		10°C~+80°C				
Storage Temp.		−15°C~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 5	00MΩ 500V DC			

Note1) The indicated residual voltage is the one after the construction is removed.

Note2) For continuously flowing DC currents, see the principal characteristics marked by an asterisk (**) on page 1-5.

Characteristics chart

HC-PRX05V4B15U





HC-PRZ series

Small-sized, low-capacity type PCB-mounting type

HC-PRZ



- Well isolated for European Standards
- Rated current 3A ~ 20A
- Compact design : height has been lept down to 12.0mm
- Single-power supplies also valable
- Two circuits can be measured at the same time.

Applications

Inverters, servo drivers, NC machine tools

Dimensions

0.5 Terminal No. 1···(+) terminal ·(-) terminal 5.85^{±1} 4-□0.3×0.5^{±0.1} Size of primary winding (Width D) 3···Output1 Control terminal 4···Output2 $\phi 0.5$ φ0.5 5...GND ϕ 0.6 ϕ 0.6 6···(+) Input1 ϕ 0.8 7···(−) Input1 $\phi 0.9$ $\phi 0.9$ 8···(+) Input2 9···(–) Input2 Weight: 5g 4-φD^{+0.2}_{-0.1} Note) The dimensions marked with * apply only for the ϕ 0.9, ϕ 0.5 (10T, 12T) primary winding Current input terminal 9.4^{±1}



HC-PRZ series

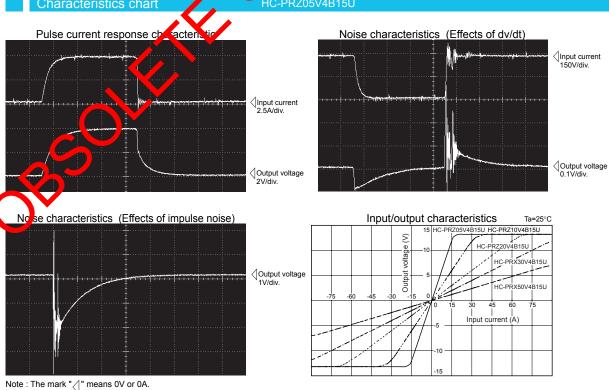
Specification Ta=25°C

Туре		HC-PRZ03V4B15U	HC-PRZ05V4B15U	HC-PRZ10V4B15U	HC-PRZ20V4B15U		
Rated current	[lf]	±3A	±5A	±10A	±20A		
Saturation current	[ls]	±9A	±15A	±30A	±45A		
Linearity limits		0~±7.5A	0~±12.5A	0~±25A	0~±37.5A		
Size of primary winding	9	φ0.5	φ0.5	φ0.8	ф0		
Turns		10	6	3	1		
Rated output	[Vh]	±4V	±1.5% (RL=10kΩ)(end	cluding the residual ou	tput)		
Residual output	[Vo]	Within ±100mV					
Output linearity		Within ±1%					
Response time			Within 10μs (at di/dt=lf/as			
Response performance	е		Withir	า 10%			
Hysteresis voltage rang	je		Within	125mV			
Output Temp. Coef.			Within	.√1%.℃			
Residual output Temp. Co	oef.		Within	mV/°C			
Control power supply			±18\	/ 1 5%			
Consumption current			Within	40mA			
Operating Temp.		10°C~+80°C					
Storage Temp.		−15°C~+85°C					
Dielectric withstand volta	ige	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC			

Note1) The indicated residual voltage is the one after the describing the principal characteristics marked by an asterisk (**) on page 1-5.

Characteristics chart

HC-PRZ05V4B15U





HC-PRA series

Small-sized, low-capacity type PCB-mounting type

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HC-PRA



- Well isolated for European Standards
- Rated current ······ 3A ~ 20A
- Compact design : height has been down to 12.0mm
- Single-power supplies also valable

Applications

Inverters, servo drivers, NC machine tools

Dimensions

(mm) *0.5 12 4-□0.3×0.5^{±0.1} 5.85^{±1}_ Terminal No. 1···(+) terminal Size of primary winding Width D 2···(–) terminal 3...Output ϕ 0.5 ϕ 0.5 4···GND ϕ 0.6 ϕ 0.8 ϕ 0.6 ϕ 0.8 5...(+) Input 6···(−) Input ϕ 0.9 φ0.9 $4-\phi D_{-0.1}^{+0.2}$ Note) The dimensions marked with * apply only for the $\phi 0.9,~\phi 0.5$ (10T, 12T) primary winding Current input terminal 1.55^{±0.5}



HC-PRA series

Specification Ta=25°C

Туре		HC-PRA03V4B15U	HC-PRA05V4B15U	HC-PRA10V4B15U	HC-PRA20V4B15U		
Rated current	[lf]	±3A	±5A	±10A	±20A		
Saturation current	[ls]	±9A	±15A	±30A	±45A		
Linearity limits		0~±7.5A	0~±12.5A	0~±25A	0~±37.5A		
Size of primary winding		φ0.5	φ0.5	φ0.8	•ф0.		
Turns		10	6	3			
Rated output	[Vh]	±4V	\pm 1.5% (RL=10k Ω)(end	cluding the residual out	tput)		
Residual output	[Vo]	Within ±100mV					
Output linearity		Within ±1%					
Response time			Within 10 μ s (at di/dt=lf/as)			
Response performance			Withir	n 10%			
Hysteresis voltage range			Within	12JmV			
Output Temp. Coef.			Within	.1%°C			
Residual output Temp. Coe	ef.		With. +	mV/°C			
Control power supply			±15V	1 5%			
Consumption current			Within	20mA			
Operating Temp.		10°C~+80°C					
Storage Temp.		−15°C~+85°C					
Dielectric withstand voltage	е	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 50	00MΩ 500V DC			

Note1) The indicated residual voltage is the one after the learn steresis is removed.

Note2) For continuously flowing DC currents, see the principal characteristics marked by an asterisk (**) on page 1-5.

Characteristics chart HC-PRA05V4B15U Pulse current response character Noise characteristics (Effects of dv/dt) Input current 150V/div. Input current 2.5A/div. Output voltage 0.1V/div. Output voltage 2V/div. Nose characteristics (Effects of impulse noise) Input/output characteristics 3 4B15U voltage HC-PRB30V4B15U Output voltage 1V/div. HC-PRB50V4B15L

Note : The mark " \swarrow " means 0V or 0A.



HC-PRB series

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Small-sized, low-capacity type PCB-mounting type

HC-PRB

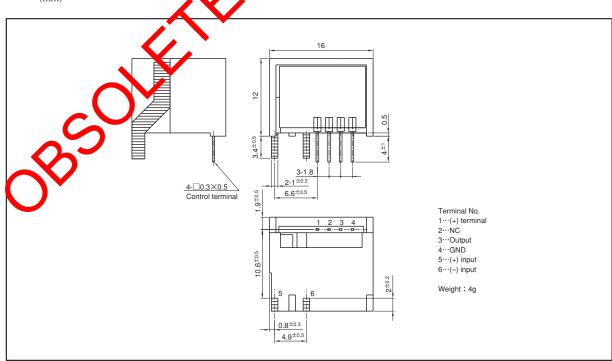


- Well isolated for European Standards
- Rated current ······25A ~ 50A
- Compact design : height has been down to 12.0mm
- Single-power supplies also valable

Applications

Inverters, servo drivers, NC machine tools

Dimensions



HC-PRB series

Specification Ta=25°C

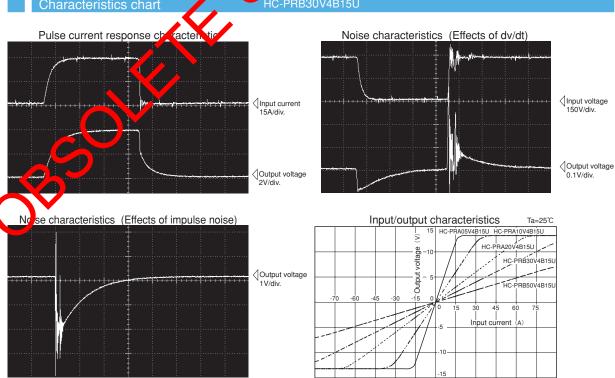
Type	HC-PRB25V4B15U	HC-PRB30V4B15U	HC-PRB40V4B15U	HC-PRB50V4B15U		
Rated current [If]	±25A	±30A	±40A	±50A		
Saturation current [Is]	±75A	±90A	±90A	±90A		
Linearity limits	0~±75A	0~±75A	0~±75A	0~±75A		
Size of primary winding	□1×2	□1×2	□1×2	□ 1 \ 2		
Turns	1	1	1			
Rated output [Vh]	$\pm 4V \pm 1.5\%$ (RL=10k Ω)(excluding the residual output					
Residual output [Vo]	Within ±100mV					
Output linearity	Within ±1%					
Response time		Within 10μs (at di/dt=lf/as)			
Response performance		Withir	n 10%			
Hysteresis voltage range		Within	125mV			
Output Temp. Coef.		Within	01%°C			
Residual output Temp. Coef.		Withi	⊳mV/°C			
Control power supply		±1/5\	1 5%			
Consumption current		Within	20mA			
Operating Temp.	10°C~+80°C					
Storage Temp.	−15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 5	00MΩ 500V DC			

Note1) The indicated residual voltage is the one after the day in steresis is removed.

Note2) For continuously flowing DC currents, see the principal maracteristics marked by an asterisk (**) on page 1-5.

Characteristics chart

HC-PRB30V4B15U





HS-PHA series

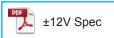
Very small-sized, low-capacity type **PCB-mounting type**

HS-PHA



- Rated current 5A ~ 30A
- Realized high precision and compact size
- Superior in response, linearity and temperature characteristics
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below



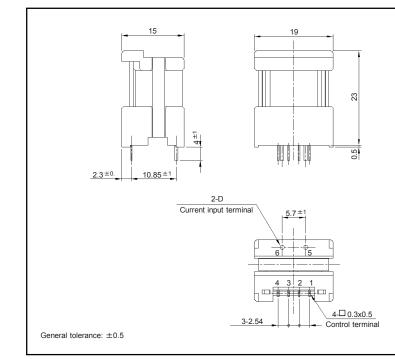


Applications

Inverters, Servo drivers, Power supply equipment, NC machine tools

Dimensions

(mm)



Dimensions of Current Input Terminals

Size of primary winding	Width D
Ф0.8	Ф0.8
Ф1.0	Ф1.0
Ф1.3	Ф1.3

Terminal No.

1 - (-) terminal 2 - GND

3 - (+) terminal 4 - Output 5 - (+) input 6 - (-) input

Weight: 12g

HS-PHA series

Specification Ta=25°C

		Voltage output type					
Туре		HS-PHA05V4B15	HS-PHA10V4B15	HS-PHA20V4B15	HS-PHA30V4B15		
Rated current [1	f]	±5A	±10A	±20A	±30A		
Continuously flowing DC current		±3.6A	±7.2A	±14.4A	±21.6A		
Saturation current [1	s]	±12.5A	±25A	±50A	±75A		
Linearity limits		0~±10A	0~±20A	0~±40A	0~±60A		
Size of primary winding		Ф0.8	Ф1.0	Ф1.3	Ф1.3		
Turns		6	3	1	1		
Rated output [V	h]	±4V±1.5% (RL=10kΩ)					
Residual output [V	o]	Within ±30mV					
Output linearity		Within ±0.5%					
Response time		Within 3µs (at di/dt=If/µs)					
Response performance			Within	า 20%			
Hysteresis voltage range			Within	50mV			
Output Temp. Coef.			Within ±	0.04%/°C			
Residual output Temp. Coef.			Within ±	=1mV/°C			
Control power supply			±15\	/±5%			
Consumption current		20mA+(Input current x N)/1270					
Operating Temp.		-10°C~+80°C					
Storage Temp.			-15°C~	-+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC			

Note1) The indicated residual output is the one after the core hysteresis is removed.

Note2) Energization time of saturation current shall be within 1 second.

Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart HS-PHA05V4B15 (RL=10kΩ) Time base: 5µs/div. Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Output voltage 2V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Input/output characteristics Ta=25°C Output voltage 2V/div. Output voltage 2V/div. Output voltage 30ml/vidv. Input/output characteristics Ta=25°C Output voltage 30ml/vidv. Output voltage 30ml/vidv.



HS-PHB series

Very small-sized, low-capacity type **PCB-mounting type**

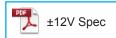
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HS-PHB



- Rated current 35A ~ 50A
- Realized high precision and compact size
- Superior in response, linearity and temperature characteristics
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

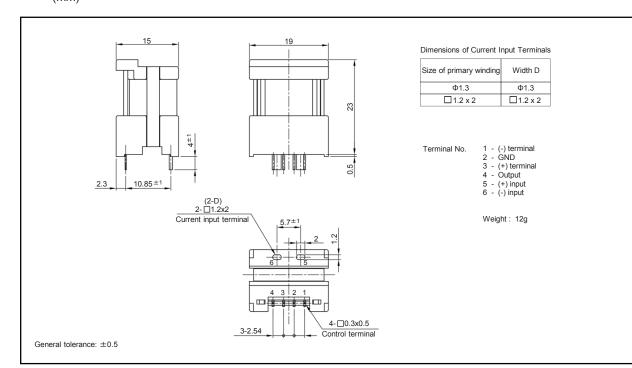




Applications

Inverters, Servo drivers, Power supply equipment, NC machine tools

Dimensions



HS-PHB series

Specification Ta=25°C

		Voltage output type					
Туре	HS-PHB35V4B15	HS-PHB40V4B15	HS-PHB50V4B15				
Rated current [If]	±35A	±40A	±50A				
Continuously flowing DC current	±25.2A	±28.8A	±36A				
Saturation current [Is]	±87.5A	±100A	±125A				
Linearity limits	0~±70A	0~±80A	0~±100A				
Size of primary winding	Ф1.3	□1.2 x 2	□1.2 x 2				
Turns	1	1	1				
Rated output [Vh]		±4V±1.5% (RL=10kΩ)					
Residual output [Vo]		Within ±30mV					
Output linearity	Within ±0.5%						
Response time	Within 3µs (at di/dt=lf/µs)						
Response performance	Within 20%						
Hysteresis voltage range		Within 50mV					
Output Temp. Coef.		Within ±0.04%/°C					
Residual output Temp. Coef.		Within ±1mV/°C					
Control power supply		±15V±5%					
Consumption current	:	20mA+(Input current x N)/1270					
Operating Temp.		-10°C~+80°C					
Storage Temp.		-15°C~+85°C					
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 500MΩ 500V DC					

Note1) The indicated residual output is the one after the core hysteresis is removed.

Note2) Energization time of saturation current shall be within 1 second.

Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart HS-PHB35V4B15 (RL=10kΩ) Time base: 5μs/div. Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input current 20A/div. Output voltage 2V/div. Noise characteristics Input/output characteristics Ta=25°C Input/output characteristics Ta=25°C Output voltage 0.5V/div.



HS-PKF series

Small-sized, low-capacity type PCB-mounting type

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HS-PKF



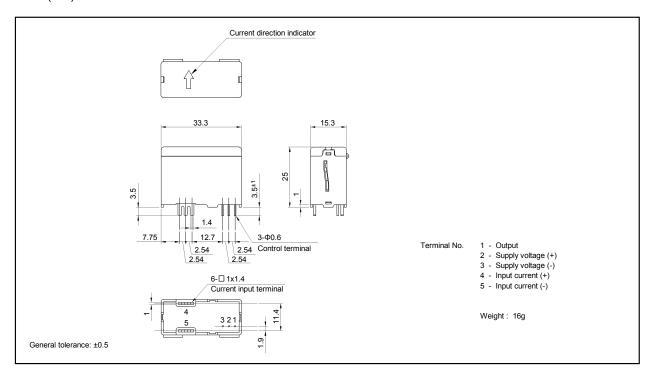
- Rated current 50A ~ 100A
- Realized high precision and compact size
- Superior in response, linearity and temperature characteristics
- For additional ±12V products, contact sales@dgseals.com or click below



Applications

Inverters, Servo drivers, Power supply equipment, NC machine tools

Dimensions



HS-PKF series

Specification Ta=25°C

		Voltage output type				
Туре	Туре		HS-PKF100A005B15			
Rated current [If	Rated current [If]		±100A			
Continuously flowing DC current		±50A	±71A			
Saturation current [Is	3]	±100A	±160A			
Linearity limits		0~±100A (RL=45Ω)	0~±160A (RL=45Ω)			
Poted output	+If	I0+25mA±0.5%	I0+50mA±0.5%			
Rated output	-If	I0-25mA±0.5%	I0-50mA±0.5%			
Residual output [10]		Within :	±0.2mA			
Output linearity	linearity Within ±0.15% at If					
Second coil resistance	Second coil resistance		Approx. 82Ω			
Response time	e Within 0.5µs (at di/dt=lf/µs)					
Response performance		Within 10% (at di/dt=lf/µs)			
Hysteresis voltage range		Within (0.15mA			
Output Temp. Coef.		Within ±0).01%/°C			
Residual output Temp. Coef.		Within ±0.	005mA/°C			
Control power supply		±15\	′±5%			
Consumption current	Consumption current		current/2000)			
Operating Temp.		-25°C~+85°C				
Storage Temp.		-40°C~	+90°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 500MΩ 500V DC				

- Note1) The indicated residual voltage is the one after the core hysteresis is removed.
- Note2) Energization time of saturation current shall be within 1 second.
- Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart HS-PKF100A005B15 (RL=45Ω) 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div. Output voltage 50mV/div. Output voltage Noise characteristics (Effects of impulse noise) Load resistance-output characteristics (Current output type) Ta=25°C 130Ω 3 45Ω Output voltage 1V/div. 90 120 150

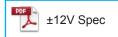
Small-sized, low-capacity type PCB-mounting type

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HS-P



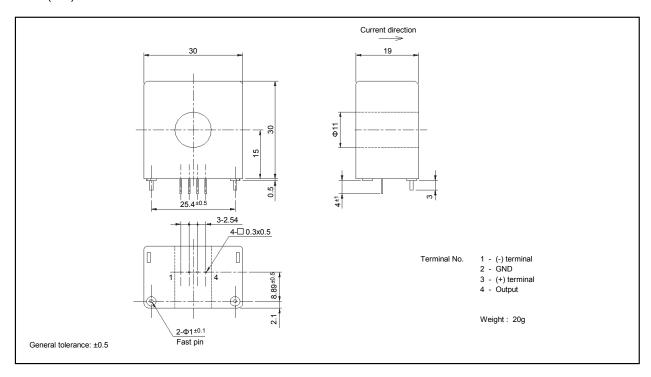
- Rated current 50A ~ 100A
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared
- For additional ±12V products, contact sales@dgseals.com or click below



Applications

Inverters, Srevo drivers, Power supply equipment, NC machine tools

Dimensions



HS-P series

Specification Ta=25°C

	Voltage o	utput type	Current output type		
Туре	HS-P050V4B15	HS-P100V4B15	HS-P050A005B15	HS-P100A005B15	
Rated current [If]	±50A	±100A	±50A	±100A	
Continuously flowing DC current	±50A	±100A	±50A	±100A	
Saturation current [Is]	±100A	±150A	±80A	±150A	
Linearity limits	0~±100A	0~±150A	0~±80A (RL=50Ω)	0~±150A (RL=40Ω)	
Rated output [Vh]	±4V±1% (RL=10kΩ)	±50m	A±1%	
Residual output [Vo]	Within	±20mV	Within:	±0.2mA	
Output linearity	Within ±0.5%				
Second coil resistance	Approx. $100Ω$ Approx. $51Ω$ Appro				
Response time	Within 1µs (The smaller one on either at di/dt = 100A/µs or If/µs.)				
Response performance	Within 10%				
Hysteresis voltage range	Within	30mV	Within 0.2mA		
Output Temp. Coef.		Within ±	0.02%/°C		
Residual output Temp. Coef.	Within ±	:1mV/°C	Within ±0	.01mA/°C	
Control power supply		±15\	/±5%		
Consumption current	20mA+(Input current/2000) 20mA+(Input current/1000) 20m		20mA+(Input current/2000)		
Operating Temp.	-10°C~+80°C				
Storage Temp.	-15°C~+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance	Not less than 500MΩ 500V DC				

 $Note 1) \quad \text{The indicated residual voltage is the one after the core hysteres is removed.} \\$

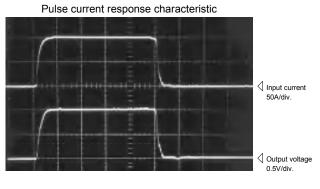
Note2) Energization time of saturation current shall be within 1 second.

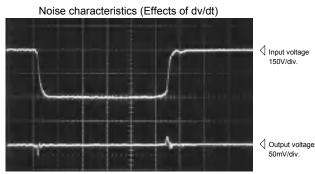
Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

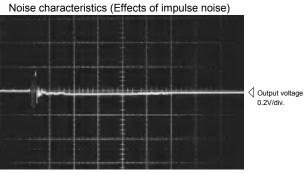
Characteristics chart

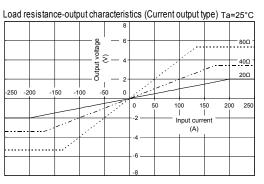
HS-P100A005B15 (RL=20Ω)

5µs/div. Time base











HS-PKD series

Small-sized, low-capacity type PCB-mounting type

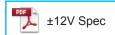
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HS-PKD



- Rated current 50A ~ 150A
- Realized high precision and compact size
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

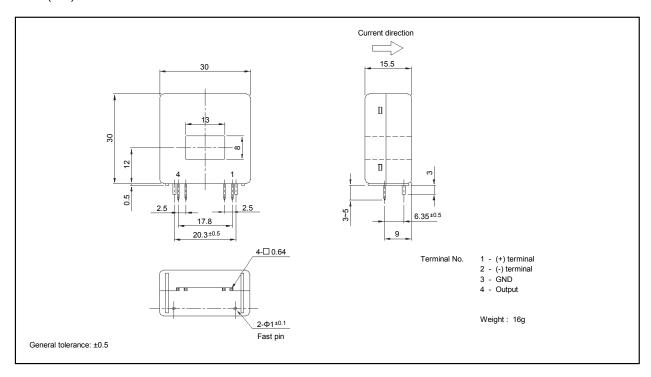




Applications

Inverters, Servo drivers, Power supply equipment, NC machine tools

Dimensions





HS-PKD series

Specification Ta=25°C

		Voltage output type			Current output type		
Туре		HS-PKD050V4B15	HS-PKD100V4B15S	HS-PKD150V4B15S	HS-PKD050A0025B15	HS-PKD100A005B15	
Rated current [If]	±50A	±100A	±150A	±50A	±100A	
Continuously flowing DC current		±50A	±72A	±108A	±50A	±72A	
Saturation current [Is	;]	±125A	±250A	±375A	±100A	±150A	
Linearity limits		0~±100A	0~±200A	0~±300A	0~±100A (RL=100~180Ω)	0~±150A (RL=120Ω)	
Doted output	+If	V0	+4V±1% (RL=10k	(Ω)	I0+25mA±1%	I0+50mA±1%	
Rated output	-If	VC)-4V±1% (RL=10k	Ω)	I0-25mA±1%	I0-50mA±1%	
Residual output [V0, I	0]		Within ±20mV	Within ±0.2mA			
Output linearity	Within ±0.5%						
Second coil resistance	Approx. 47Ω Approx. 63Ω			Approx. 38Ω			
Response time	Within 1µs (The smaller one on either at di/dt = 100A/µs or If/µs				lf/μs.)		
Response performance				Within 10%			
Hysteresis voltage range			Within 20mV		Within	0.2mA	
Output Temp. Coef.				Within ±0.01%/°C			
Residual output Temp. Coef.			Within ±0.8mV/°C	;	Within ±0	.01mA/°C	
Control power supply				±15V±5%			
Consumption current	20mA+(Input current/2500) 20mA+(Input current/3200)			20mA+(Input current/2000)			
Operating Temp.				-10°C~+80°C	•		
Storage Temp.		-15°C~+85°C					
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			Not les	ss than 500MΩ 50	0V DC		

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Note2) Energization time of saturation current shall be within 1 second.

Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart HS-PKD100V4B15S 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div Output voltage Output voltage Noise characteristics (Effects of impulse noise) Load resistance-output characteristics (Current output type) Ta=25°C 200 Output voltage 200 0.5V/div.



HS-PTF series

Medium-sized, low-capacity type Bolt on type

HS-PTF



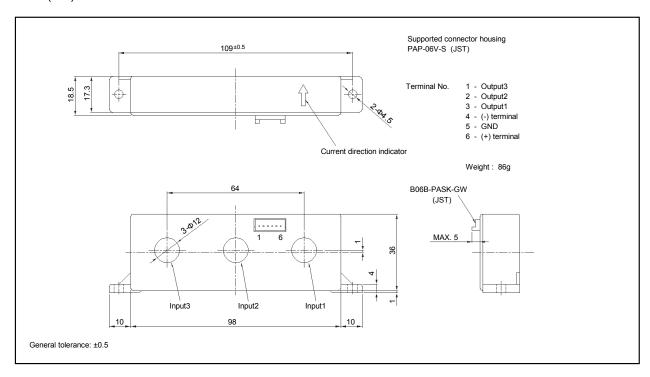
- Rated current 50A ~ 100A
- Three circuits can be measured at the same time
- Realized high precision and compact size
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared
- For additional ±12V products, contact sales@dgseals.com or click below



Applications

Inverters, Servo drivers, Power supply equipment, NC machine tools

Dimensions



HS-PTF series

Specification Ta=25°C

	Voltage o	utput type	Current output type		
Type	HS-PTF050V4B15	HS-PTF100V4B15	HS-PTF050A00125B15	HS-PTF100A0025B15	
Rated current [If]	±50A	±100A	±50A	±100A	
Continuously flowing DC current	±50A	±100A	±50A	±100A	
Saturation current [Is]	±150A	±200A	±150A	±200A	
Linearity limits	0~±125A	0~±200A	0~±150A (RL=50~150Ω)	0~±200A (RL=50~100Ω)	
Poted output	V0+4V±1%	(RL=10kΩ)	I0+12.5mA±1%	I0+25mA±1%	
Rated output -If	V0-4V±1%	(RL=10kΩ)	I0-12.5mA±1%	I0-25mA±1%	
Residual output [V0, I0]	Within	±20mV	Within ±0.2mA		
Output linearity	Within ±0.5%				
Second coil resistance	Approx. 120Ω				
Response time	Within 1µs (The smaller one on either at di/dt = 100A/µs or If/µs.)				
Response performance		Within	n 10%		
Hysteresis voltage range	Within	20mV	Within 0.2mA		
Output Temp. Coef.		Within ±	0.02%/°C		
Residual output Temp. Coef.	Within ±	:1mV/°C	Within ±0	.01mA/°C	
Control power supply		±15\	/±5%		
Consumption current		60mA+(Input	current/4000)		
Operating Temp.		-10°C	~+80°C		
Storage Temp.		-15°C	~+85°C		
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 5	00MΩ 500V DC		

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Note2) Energization time of saturation current shall be within 1 second.

Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart HS-PTF100V4B15 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) √ Input voltage Input current Output voltage 50mV/div. Output voltage 2V/div. Noise characteristics (Effects of impulse noise) Load resistance-output characteristics (Current output type) Ta=25°C 150Ω Output voltage 100Ω €_ 50Ω Output voltage 240 300

HS-U series

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Medium-sized, medium-capacity type Bolt on type

HS-U



- Rated current 50A ~ 300A
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared
- For additional ±15V and ±12V products, contact sales@dgseals.com or click below

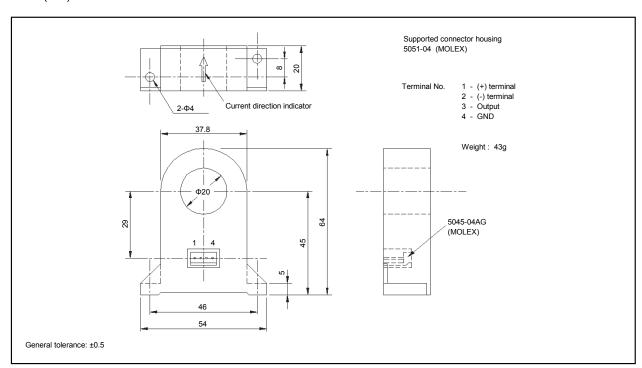




Applications

Inverters, Servo drivers, Power supply equipment, NC machine tools

Dimensions



HS-U series

Specification Ta=25°C

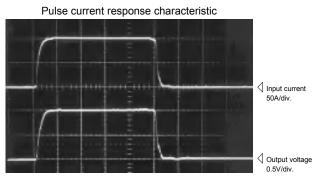
		Voltage output type		Current output type			
Туре		HS-U050V4B15	HS-U100V4B15	HS-U300V4B15		HS-U100A005B15	
Rated current	[If]	±50A	±100A	±300A	±50A	±100A	±300A
Continuously flowing DC curre	ent	±50A	±100A	±150A	±50A	±100A	±300A
Saturation current	[ls]	±150A	±300A	±390A	±150A	±300A	±300A
Linearity limits		0~±150A	0~±300A	0~±360A	0~±150A (RL=50Ω)	0~±300A (RL=20Ω)	0~±300A (RL=20Ω)
Rated output	[Vh]	±4	V±1% (RL=10k	Ω)	±50m	A±1%	±150mA±1%
Residual output	[Vo]		Within ±20mV			Within ±0.2mA	
Output linearity		Within ±0.5%					
Second coil resistance		Approx. 25Ω	Appro	κ. 50Ω	Approx. 25Ω Approx. 50Ω		
Response time		Wit	thin 1µs (The s	maller one on	r one on either at di/dt = 100A/μs or If/μs.)		
Response performance		Within 10%					
Hysteresis voltage range		Within 20mV Within 0.2mA					
Output Temp. Coef.				Within ±0	0.02%/°C		
Residual output Temp. Coe	f.	Within ±1mV/°C			W	ithin ±0.01mA/	°C
Control power supply				±15\	/±5%		
Consumption current		20mA+(Input current/1000)	20mA+(Input	current/2000)	20mA+(Input current/1000)	20mA+(Input current/20mA+(Input current/20	
Operating Temp.		-10°C~+80°C					
Storage Temp.		-15°C~+85°C					
Dielectric withstand voltage	;	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 500MΩ 500V DC					

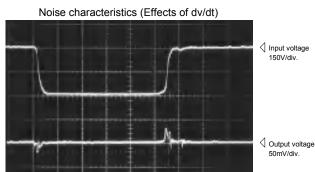
Note1) The indicated residual voltage is the one after the core hysteresis is removed.

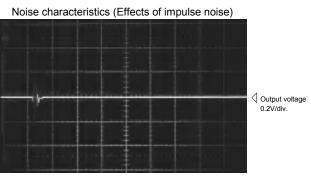
Note2) Energization time of saturation current shall be within 1 second.

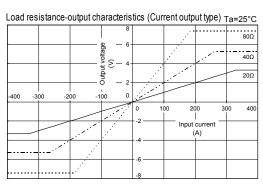
Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart HS-U100A005B15 (RL=20Ω) 5μs/div. Time base













HS-UF series

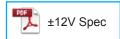
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Medium-sized, medium-capacity type Bolt on type

HS-UF



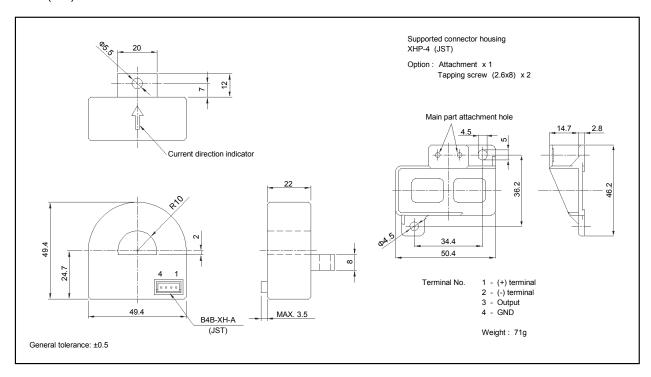
- Rated current 100A ~ 300A
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared
- Optional attachment to enable bolt-on attachment is available
- For additional ±12V products, contact sales@dgseals.com or click below



Applications

Inverters, Servo drivers, Power supply equipment, NC machine tools

Dimensions



HS-UF series

Specification Ta=25°C

		Voltage output type			Cı	urrent output ty	ре
Туре		HS-UF100V4B15	HS-UF200V4B15	HS-UF300V4B15	HS-UF100A0025B15	HS-UF200A005B15	HS-UF300A0075B15
Rated current [If]	±100A	±200A	±300A	±100A	±200A	±300A
Continuously flowing DC current		±100A	±200A	±230A	±100A	±200A	±230A
Saturation current [Is	;]	±300A	±600A	±750A	±300A	±600A	±750A
Linearity limits		0~±250A	0~±500A	0~±700A	0~±250A (RL=10~100Ω)	0~±500A (RL=10~25Ω)	0~±700A (RL=10Ω)
Detect customit	+If	V0+	4V±1% (RL=10)kΩ)	I0+25mA±1%		I0+75mA±1%
Rated output	-If	V0-	4V±1% (RL=10	lkΩ)	I0-25mA±1%	I0-50mA±1%	I0-75mA±1%
Residual output [V0, I	0]		Within ±20mV			Within ±0.2mA	
Output linearity		Within ±0.5%					
Second coil resistance		Approx. 48Ω					
Response time		Within 1µs (at di/dt=100A/µs)					
Response performance		Within 10%					
Hysteresis voltage range		Within 20mV Within 0.2mA					
Output Temp. Coef.				Within ±0	0.02%/°C		
Residual output Temp. Coef.		\	Nithin ±1mV/°0	;	W	ithin ±0.01mA/	°C
Control power supply				±15\	/±5%		
Consumption current		20mA+(Input current/4000)					
Operating Temp.		-10°C~+80°C					
Storage Temp.		-15°C~+85°C					
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			1	Not less than 5	00MΩ 500V D0		

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Note2) Energization time of saturation current shall be within 1 second.

Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart HS-UF200A005B15 (RL=20Ω) 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div. Output voltage Output voltage Noise characteristics (Effects of impulse noise) Load resistance-output characteristics (Current output type) Ta=25°C 100Ω 3 Output 20Ω 10Ω 800 800 Output voltage 0.2V/div. Input current



HS-UD series

Medium-sized, medium-capacity type Bolt on type

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HS-UD



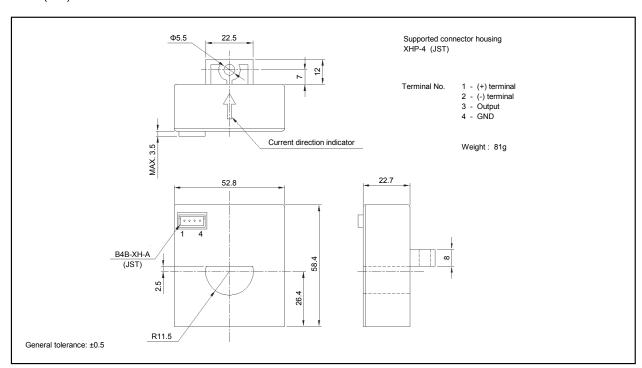
- Rated current 300A ~ 500A
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared
- For additional ±12V products, contact sales@dgseals.com or click below



Applications

Inverters, Servo drivers, Power supply equipment, NC machine tools

Dimensions





HS-UD series

Specification Ta=25°C

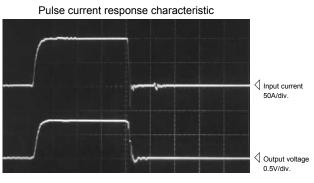
		Voltage output type			Current output type				
Туре	Туре		HS-UD400V4B15	HS-UD500V4B15	HS-UD300A015B15	HS-UD400A020B15	HS-UD500A025B15		
Rated current	[If]	±300A	±400A	±500A	±300A	±400A	±500A		
Continuously flowing DC cur	ent	±450A	±450A	±450A	±450A	±450A	±450A		
Saturation current	[ls]	±900A	±1200A	±1200A	±800A	±1000A	±1200A		
Linearity limits		0~±900A	0~±1200A	0~±1200A	0~±800A (RL=10Ω)	0~±1000A (RL=5Ω)	0~±1200A (RL=1Ω)		
Rated output	[Vh]	±4	V±1% (RL=10k	Ω)	±150mA±1%	±200mA±1%	±250mA±1%		
Residual output	[Vo]		Within ±20mV			Within ±0.2mA			
Output linearity	Output linearity			Within ±0.5%					
Second coil resistance	Approx. 16.8Ω								
Response time	Within 1μs (The smaller one on either at di/dt = 100A/μs or If/μs.)								
Response performance		Within 10%							
Hysteresis voltage range		Within 20mV Within 0.2mA							
Output Temp. Coef.		Within ±0.02%/°C							
Residual output Temp. Coe	ef.	Within ±1mV/°C Within ±0.01mA/°C				°C			
Control power supply		±15V±5%							
Consumption current	20mA+(Input current/2000)								
Operating Temp.	-10°C~+80°C								
Storage Temp.	-15°C~+85°C								
Dielectric withstand voltag	2500V AC 50/60Hz 1minute								
Insulation resistance		Not less than 500MΩ 500V DC							

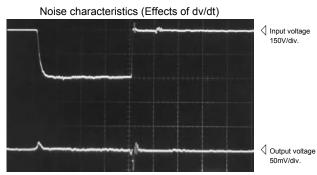
Note1) The indicated residual voltage is the one after the core hysteresis is removed.

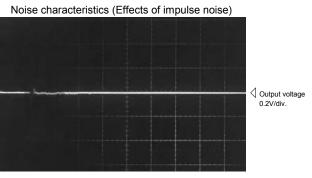
Note2) Energization time of saturation current shall be within 1 second.

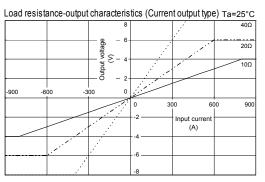
Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart HS-UD500V4B15 5µs/div. Time base









Note: The marks " \triangleleft " means 0V or 0A.

HS-K series

Medium-sized, medium-capacity type Bolt on type

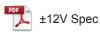
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HS-K



Rated current 300A ~ 500A

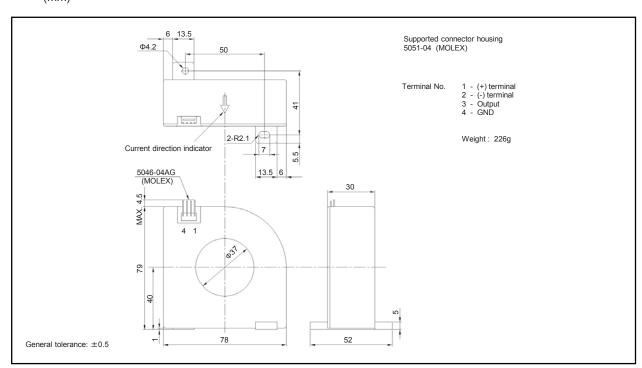
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared
- For additional ±12V products, contact sales@dgseals.com or click below



Applications

Inverters, Power supply equipment

Dimensions



HS-K series

Specification Ta=25°C

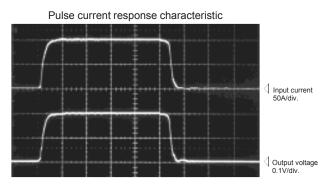
	Vo	oltage output ty	pe	Current output type		
Туре	HS-K300V4B15	HS-K400V4B15	HS-K500V4B15	HS-K300A0075B15	HS-K400A010B15	HS-K500A010B15
Rated current [If]	±300A	±400A	±500A	±300A	±400A	±500A
Continuously flowing DC current	±600A	±800A	±1000A	±600A	±800A	±1000A
Saturation current [Is]	±600A	±800A	±1000A	±600A	±800A	±1000A
Linearity limits	0~±600A	0~±800A	0~±1000A	0~±600A (RL=30Ω)	0~±800A (RL=10Ω)	0~±1000A (RL=1Ω)
Rated output [Vh, Ih]	±4	V±1% (RL=10	kΩ)	±75mA±1%	±100m	nA±1%
Residual output [V0, I0]		Within ±20mV	1	,	Within ±0.2mA	Α.
Output linearity			Within	±0.5%		
Second coil resistance	Approx. 31Ω Approx. 42Ω		Approx. 31Ω Approx.		Approx. 42Ω	
Response time	Within 1μs (at di/dt=100A/μs)					
Response performance	Within 20%					
Hysteresis voltage range	Within 20mV			Within 0.2mA		
Output Temp. Coef.	Within ±0.02%/℃					
Residual output Temp. Coef.	Within ±1mV/°C Within ±0.01mA/			/°C		
Control power supply			±15\	/±5%		
Consumption current	20mA+(Input	current/4000)	20mA+(Input current/5000)	20mA+(Input	current/4000)	20mA+(Input current/5000)
Operating Temp.	-10°C~+80°C					
Storage Temp.	-15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance		ı	Not less than 5	00MΩ 500V D0		

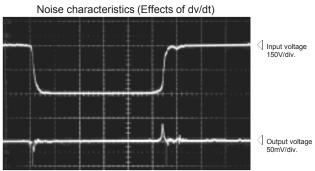
Note1) The indicated residual voltage is the one after the core hysteresis is removed.

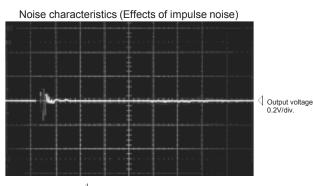
Characteristics chart

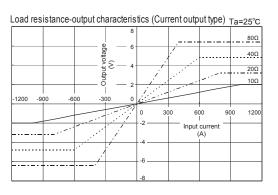
HS-K500A010B15 (RL=10Ω)

Time base: 5us/div









Note: The marks " \(\bigcirc \) " means 0V or 0A.

Small-sized, medium-capacity type Bolt on type

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HD-TS

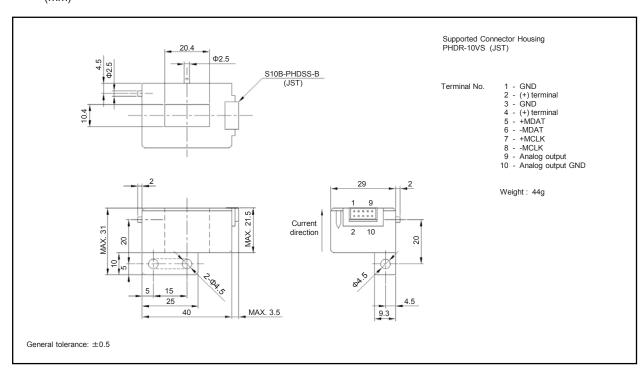


- Rated current 100A ~ 600A
- Δ-Σ(delta-sigma) modulation digital output sensors excelling in the anti-noise characteristic
- It is possible to simplify the circuits on the input side as the input side requires no A/D conversion

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



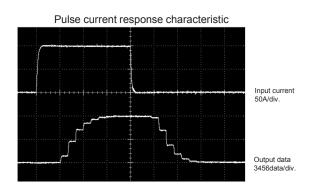


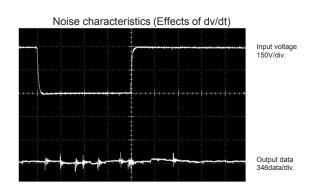
HD-TS series

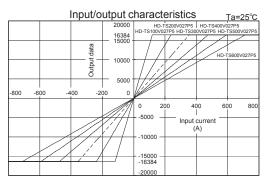
Specification Ta=25°C Type HD-TS100V027P5 | HD-TS200V027P5 | HD-TS300V027P5 | HD-TS400V027P5 | HD-TS500V027P5 | HD-TS600V027P5 Rated current [If] ±100A $\pm 200A$ ±400A ±600A $\pm 300A$ $\pm 500A$ Saturation current [ls] ±119A ±237A ±356A ±474A ±593A ±711A Linearity limits 0~±119A 0~±237A 0~±356A 0~±474A 0~±593A 0~±711A Base data ±16384[data] (at Is) [Dh] Rated output data \pm 13824[data] Within \pm 491[data] (at If) Residual output data [D0] Within ±164[data] **Output linearity** Within $\pm 1\%$ (Within ± 164 [data]) Response time Within 20µs (at di/dt=100A/µs) Hysteresis voltage range Within ±164[data] Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±51[data]/°C +5V±5% Control power supply Within 50mA Consumption current -10°C~+80°C Operating Temp. Storage Temp. -15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute Not less than $500M\Omega$ 500V DC Insulation resistance Output specifications TIA/EIA-422-B[RS422] standard serial output (data and clock output) Output clock frequency 10MHz±2MHz Others Δ - Σ A/D converter Built-in Type *)All the data number shall be the values at 14bit(16384[data]) in resolution

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Characteristics chart HD-TS200V027P5 Time base: 10µs/div.











HP-PU series

Small-sized, low-capacity type PCB-mounting type

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HP-PU

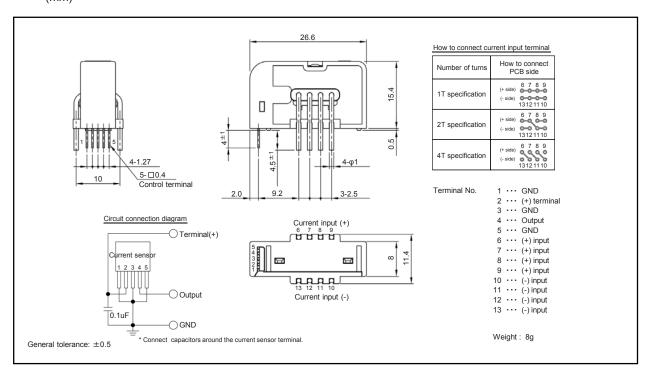


- Rated current 5A ~ 100A
- Compact and small mounting area by application of Hall IC
- Excellent in temperature characteristics by incorporating temperature compensation circuit
- Superior noise-resistance

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



HP-PU series

Specification Ta=25°C

Туре		HP-PU005V15PP5	HP-PU010V15PP5	HP-PU025V15PP5	HP-PU050V15PP5	HP-PU100V15PP5	
Rated current	[If]	±5A	±10A	±25A	±50A	±100A	
Continuously flowing DC currer	nt	±5A	±10A	±25A	±50A	±55A	
Saturation current	[ls]	±7.3A	±14.6A	±36.5A	±73A	±146A	
Linearity limits		0~±6.5A	0~±13A	0~±32.5A	0~±65A	0~±130A	
Number of current input terminal to	urns	4	4	2	1	1	
Rated output	[Vh]		V0±1.5V×(\	/cc/5)±3.5%		V0±1.5V×(Vcc/5) ±2.5%	
Residual output	[Vo]	Within (Vcc/2)±40mV	V	Vithin (Vcc/2)±35m	V	Within (Vcc/2)±30mV	
Output linearity		Within ±1%					
Response time		Within 10μs (at di/dt=lf/μs)					
Response performance		Within 10%					
Hysteresis voltage range		Within 80mV	Within 75mV	Within	Within 50mV		
Output Temp. Coef.				Within ±0.05%/°C			
Residual output Temp. Coef.		Within ±0.75mV/°C	Within ±0.65mV/°C	Within ±	0.6mV/°C	Within ±0.3mV/°C	
Control power supply		+5V±5%					
Consumption current				Within 15mA			
Operating Temp.		-40°C~+85°C					
Storage Temp.		-40°C~+85°C					
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			Not le	ess than 500MΩ 500	V DC		

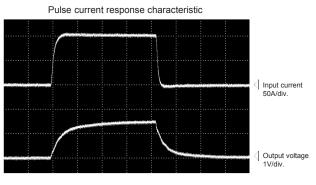
Note1) The indicated residual output is the one after the core hysteresis is removed.

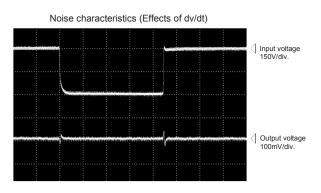
Note2) The output specification is the maximum output current 0.5mA or less, load capacity 100pF or less.

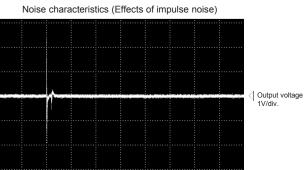
Note3) The rated output and residual output vary with the value of the control power because they are ratiometric outputs.

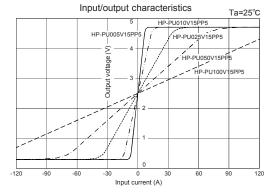
Note4) Connect to the board at the specified number of turns. A different number of turns will result in an output error.

Characteristics chart HP-PU100V15PP5 Time base: 5µs/div.









Note: The marks " \triangleleft " means 0V or 0A.



HM-A series

Large-sized, medium-capacity type Bolt on type

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HM-A

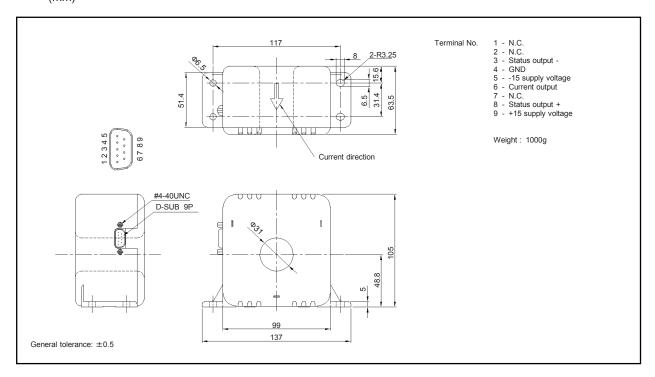


- Rated current 300A ~ 600A
- High accuracy current sensor using fluxgate technology
- Very low output noise

Applications

High precision power supply, Medical equipment, High precision inverter, Test equipment

Dimensions



HM-A series

Specification Ta=25°C

		Current o	utput type	
Туре		HM-A300A02B15B	HM-A600A04B15B	
Rated current [1	f]	±300A	±600A	
Continuously flowing DC current		±600A	±600A	
Min.overload trip current [Is] (N	lote3)	$\geq \pm 750A (RL \leq 5\Omega)$ $\geq \pm 850A (RL \leq 2.5\Omega)$		
Linearity limits (N	ote4)	0~±650A 0~±750A(
Rated output [Ih]	+If	I0+200mA±300ppm	I0+400mA±300ppm	
Nated output [III]	-If	10-200mA±300ppm	I0-400mA±300ppm	
Residual output [1	0]	Within	±10μA	
Output linearity		Within ±10ppm		
Second coil resistance		Approx. 16Ω		
Response time		Within 1μs (at di/dt=100A/μs)		
Response performance		Within 35%		
Hysteresis voltage range		Within 15μA		
Output Temp. Coef.		Within ±5ppm/℃		
Residual output Temp. Coef.		Within ±0.2μΑ/℃		
Control power supply		±15V±5%		
Consumption current		250mA+(Input current/1500)		
Operating Temp.		+10°C~+50°C		
Storage Temp.		0°C~+60°C		
Operation status(Photocupuler output) (N	ote5)	Open collector (Imax=6mA Vmax=+15V), Active low (Normal operation)		
Dielectric withstand voltage		2500V AC 50/60Hz 1minute		
Insulation resistance		Not less than 5	00MΩ 500V DC	

Note1) The indicated residual output is the one after the core hysteresis is removed.

Note2) Energization time of continuous live DC current x110% shall be within 1 minute.

Note3) If the current is higher than this, the inside circuit will shut down and the output will be almost zero.

Note4) Denotes the range of the input current value for which the output is within 0.1% of the estimate output voltage.

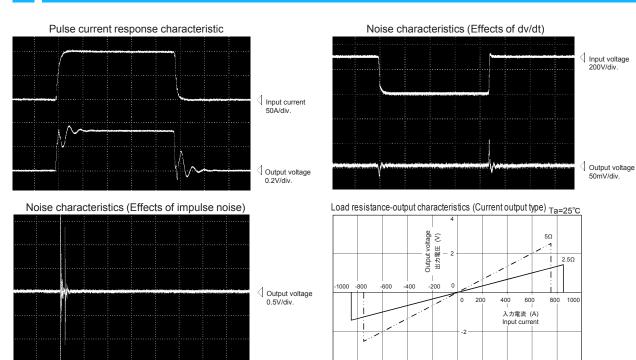
Note5) It is a signal that indicates the inside circuit operation; it indicates Lo level under normal operation, and Hi level when the inner circuit is shut down because of an

Characteristics chart

HM-A600A04B15B (RL=5 Ω)

Time base: 5µs/div.

50mV/div.



7-2

Note: The marks " \quad " means 0V or 0A.



06 PMB 356 Plano TX 75093

HM-B series

Large-sized, medium-capacity type Bolt on type

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НМ-В

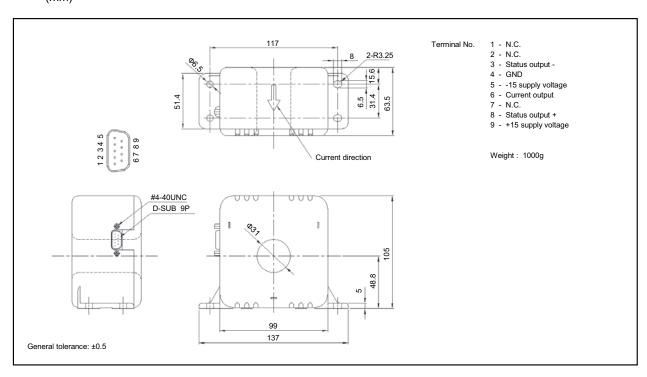


- Rated current 300A ~ 600A
- High accuracy current sensor using fluxgate technology
- Very low output noise

Applications

High precision power supply, Medical equipment, High precision inverter, Test equipment

Dimensions



HM-B series

Specification Ta=25°C

			Current o	utput type		
Type			HM-B300A02B15	HM-B600A04B15		
Rated current	[If]]	±300A	±600A		
Continuously flowing DC curr	ent		±300A	±600A		
Min.overload trip current	[ls]	≧±850A (≧±950A (F	RL ≦ 5Ω) RL ≦ 2.5Ω)		
Linearity limits				(RL ≦ 5Ω) RL ≦ 2.5Ω)		
Rated output		+lf	I0+200mA±300ppm	I0+400mA±300ppm		
Nated Odtput		-If	10-200mA±300ppm	I0-400mA±300ppm		
Residual output	[lo]	Within	±10μA		
Output linearity			Within ±10ppm			
Second coil resistance			Approx. 14Ω			
Response time			Within 1µs (at di/dt=100A/µs)			
Response performance			Within 35%			
Hysteresis voltage range			Within 15µA			
Output Temp. Coef.			Within ±5ppm/°C			
Residual output Temp. Coe	f.		Within ±0.2μA/°C			
Control power supply			±15V±5%			
Consumption current			250mA+(Input current/1500)			
Operating Temp.			+10°C~+50°C			
Storage Temp.			0°C~+60°C			
Operation status(Photocupuler output)			Open collector (Imax=6mA Vmax=+15V), Active low (Normal operation)			
Dielectric withstand voltage	Э		2500V AC 50/60Hz 1minute			
Insulation resistance			Not less than 5	00MΩ 500V DC		

Note1) The indicated residual voltage is the one after the core hysteresis is removed.

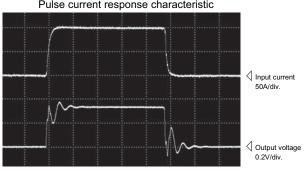
Note2) Energization time of continuous live DC current x110% shall be within 1 minute.

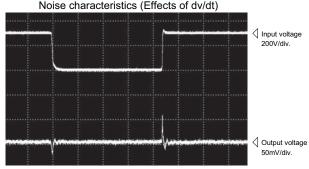
Note3) If the current is higher than this, the inside circuit will shut down and the output will be almost zero.

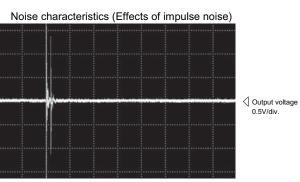
Note4) Denotes the range of the input current value for which the output is within 0.1% of the estimate output voltage.

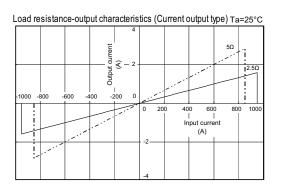
Note5) It is a signal that indicates the inside circuit operation; it indicates Lo level under normal operation, and Hi level when the inner circuit is shut down because of an over current.

Characteristics chart HM-B600A04B15 (RL=5Ω) 5µs/div. Time base Pulse current response characteristic Noise characteristics (Effects of dv/dt)









Note: The marks " \(\) " means 0V or 0A.





HF-A series

 ϵ

Small-sized, low-capacity type PCB-mounting type

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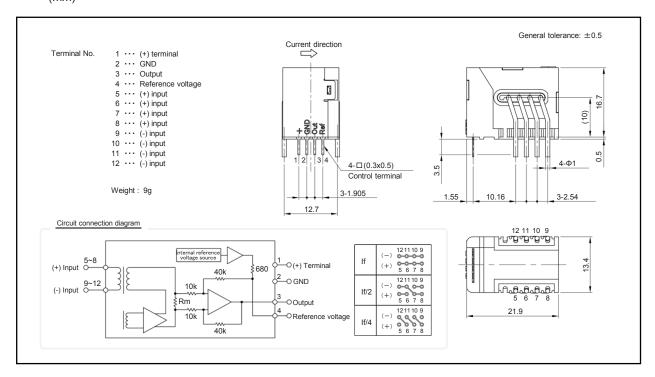


- Rated current 6A ~ 50A
- High accuracy current sensor using fluxgate technology
- Handles 5V single power supply and reference voltage (Vref)
- Excellent temperature characteristics
- High speed response
- Over-current protection circuit built-in

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



HF-A series

Specification Ta=25°C

Туре	HF-A06V0625PP5D	HF-A15V0625PP5D	HF-A25V0625PP5D	HF-A50V0625PP5D	
Rated current [If]	±6A	±15A	±25A	±50A	
		-			
Continuously flowing DC current	±20A	±51A	±55A	±55A	
Saturation current [Is]	±20A	±51A	±85A	±150A	
Linearity limits	0~±18A	0~±45A	0~±75A	0~±100A	
Internal reference voltage [Vref] (I=0)		+2.5=	±5mV		
External reference voltage [Vref]		0~	4V		
Rated output [Vh] (I=If, output-Vref)		±0.625	V±0.7%		
Residual output [Vo] (I=0, output-Vref)	±5.3mV	±2.2mV	±1.35mV	±0.725mV	
Output linearity	Within ±0.1%				
Response time	Within 0.3µs (at di/dt=lf/µs)				
Response performance		Withir	า 10%		
Hysteresis voltage range		Withir	n 1mV		
Output Temp. Coef.		Within ±0	0.004%/°C		
Residual output Temp. Coef.	Within ±0.035mV/°C	Within ±0.015mV/°C	Within ±0.01mV/℃	Within ±0.0075mV/°C	
Internal reference voltage Temp. Coef.	Within ±0.125mV/°C				
Control power supply		+5V:	±5%		
Consumption current	2	0mA+(Input current/1760	0)	20mA+(Input current/1768)	
Operating Temp.	-40°C~+85°C				
Storage Temp.	-40°C~+105°C				
Dielectric withstand voltage	4000V AC 50/60Hz 1minute				
Insulation resistance		Not less than 5	00MΩ 500V DC		

Note1) The indicated residual output is the one after the core hysteresis is removed.

Note2) Energization time of saturation current shall be within 1 second.

Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Note4) In this specification, accuracy was determined with reference to the reference voltage (Vref).

Note5) For the reference voltage, there are 2 types of modes of internal reference output and external reference input.

HF-A25V0625PP5D Characteristics chart Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 12.5A/div. Output voltage 50mV/div. Output voltage 300mV/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C HF-A15V0625PP5D S . / I HF-A50V0625PP5D Output Output voltage 0.5V/div.

Input current (A)

Note: The marks " \quad " means 0V or 0A.



HR-PA series

Small-sized, low-capacity type PCB-mounting type

HR-PA

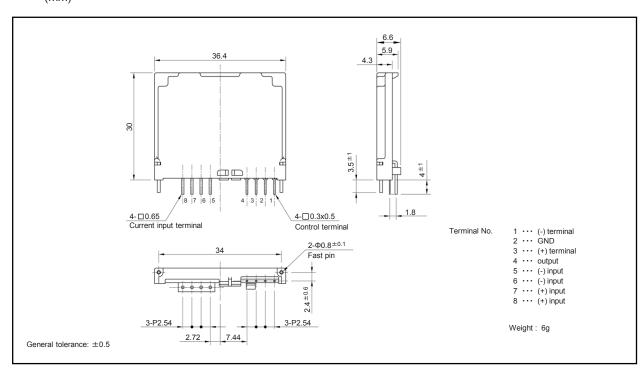


- Rated current 5A ~ 10A
- High accuracy current sensor using the MR element
- For coreless structure, realized low-profile, light-weight and small mounting surface
- Very little hysteresis characteristics
- Superior in response, linearity and temperature characteristics

Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

Dimensions



HR-PA series

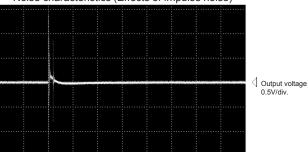
Specification Ta=25°C

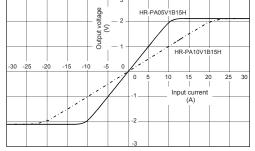
Туре		HR-PA05V1B15H	HR-PA10V1B15H		
Rated current [If]	±5A	±10A		
Continuously flowing DC current		±4A	±4A		
Saturation current [Is]	±10A	±20A		
Linearity limits		0~±7.5A	0~±15A		
Rated output [Vh]	+If	V0+1V±1%	(RL=10kΩ)		
Kated output [vii]	-If	V0-1V±1%	(RL=10kΩ)		
Residual output [V	0]	Within ±20mV			
Output linearity		Within ±0.5%			
Response time		Within 10μs (at di/dt=lf/μs.)			
Response performance		Within 10%			
Output Temp. Coef.		Within ±0.05%/°C			
Residual output Temp. Coef.		Within ±0.3mV/℃			
Control power supply		±15V±5%			
Consumption current		Within 15mA+(Input current/Approx.300)			
Operating Temp.		-25°C~+85°C			
Storage Temp.		-40°C~+90°C			
Dielectric withstand voltage		2000V AC 50/60Hz 1minute			
Insulation resistance		Not less than 500MΩ 500V DC			

Note1) Energization time of rated current shall be within 1 minute.

Note2) Energization time of over rated current shall be within 1 second.

Characteristics chart HR-PA05V1B15H Time base: 5µs/div. Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input current 2.5Avdiv. Output voltage 0.5V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°c Input/output characteristics Ta=25°c





Note: The marks " \ " means 0V or 0A.



HA-A series

Clamp type AC-CT

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HA-A

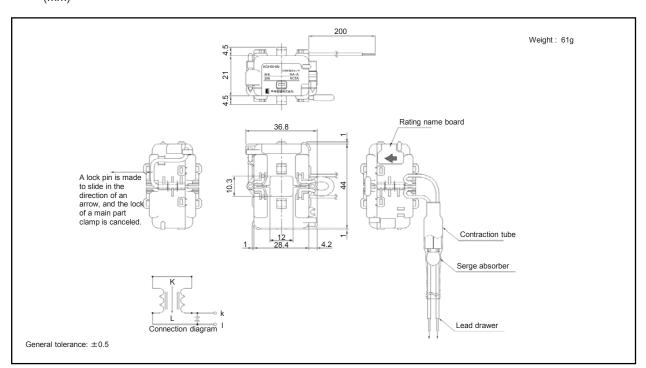


- Rated primary current 5A
- Most suitable for energy measurement which is more less dispersion in ratio error and phase displacement
- Symmetrical divided core prevents influence of external magnetic field
- Excellent frequency characteristics enabling pulse current measurement
- Simple mounting for exiting panel which is clamp type
- Internal output protection circuit

Applications

Energy measurement unit, Transmit detection of apparatus, Signal detection

Dimensions

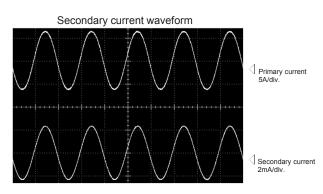


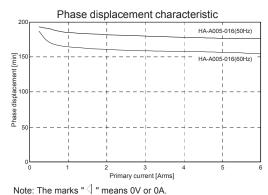
HA-A series

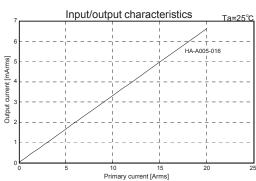
Specification Ta=25°C

Туре	HA-A005-016
Rated primary current [If]	5A
Measuring bound	0.25~5Arms
Frequency	45~65Hz
Saturation current [Is]	25A
Rated secondary current	1.67mArms
Ratio error	±1% (RL=200Ω)
Dispersion in phase displacement	± 45 minute (0.1If~If RL=200 Ω) ± 60 minute (0.05If RL=200 Ω)
Operating Temp.	-10°C~+55°C
Storage Temp.	-20°C~+60°C
Dielectric withstand voltage	1000V AC 1minute
Insulation resistance	Not less than 10MΩ 500V DC
Others	Internal output protection circuit

Characteristics chart HA-A005-016 Time base: 10ms/c







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HA-B, HA-C series

Clamp type AC-CT

HA-B, HA-C

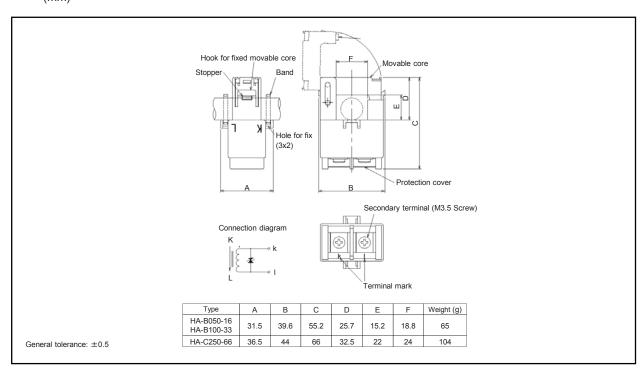


- Rated primary current
 50A ~ 250A
- Most suitable for energy measurement which is more less dispersion in ratio error and phase displacement
- Simple mounting for exiting panel which is clamp type
- Internal output protection circuit

Applications

Energy measurement unit

Dimensions

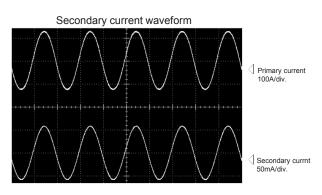


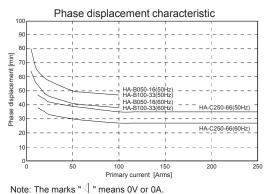
HA-B, HA-C series

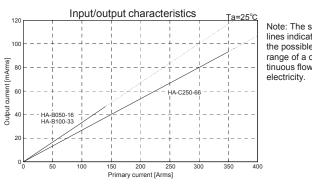
Specification

Туре	HA-B050-16	HA-B100-33	HA-C250-66
Rated primary current [If]	50Arms	100Arms	250Arms
Measuring bound	2.5~50Arms	5~100Arms	12.5~250Arms
Frequency		45~65Hz	
Saturation current [Is]	140	Arms	350Arms
Rated secondary current	16.67mArms 33.33mArms		66.67mArms
Ratio error	±1.2% (RL≦10Ω)		
Dispersion in phase displacement		±40minute (RL≦10Ω)	
Operating Temp.		-10°C~+55°C	
Storage Temp.		-20°C~+60°C	
Dielectric withstand voltage		2500V AC 1minute	
Insulation resistance	Not less than 10MΩ 500V DC		
Insulation distance	Not less than 8mm		
Others	I	nternal output protection circu	it

HA-B100-33 Characteristics chart Time base: 10ms/div.







Note: The solid lines indicate the possible range of a con-tinuous flow of





HA-BV, HA-CV series

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Clamp type AC-CT

HA-BV, HA-CV

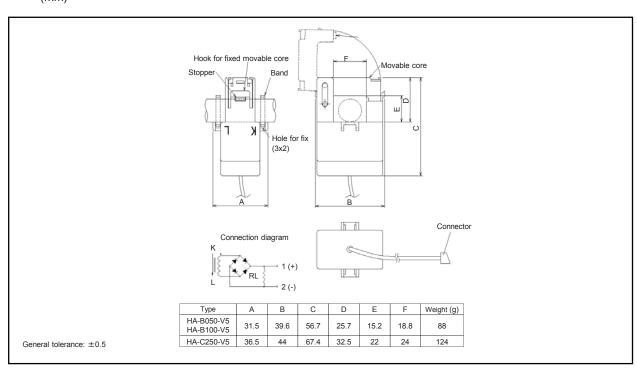


- Rated current 50A ~ 250A
- Simple mounting for exiting panel which is clamp type
- Internal rectification circuit DC-V output type

Applications

Energy measurement unit

Dimensions

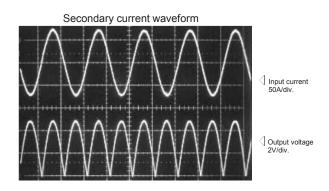


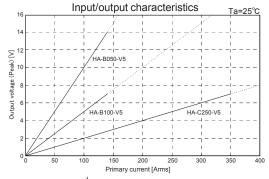
HA-BV, HA-CV series

Specification Ta=25°C

Туре	HA-B050-V5	HA-B100-V5	HA-C250-V5		
Rated current [If]	50Arms	100Arms	250Arms		
Measuring bound	10~50Arms	10~100Arms	12.5~250Arms		
Frequency		45~65Hz			
Rated output voltage	DC+5V (Peak) DC+3.21V (Average)				
Ratio error	±3%				
Operating Temp.	-10°C~+55°C				
Storage Temp.	-20°C~+60°C				
Dielectric withstand voltage	2500V AC 1minute				
Insulation resistance	Not less than 10MΩ 500V DC				
Insulation distance	Not less than 8mm				
Others	Output cable: VCTF wire 0.3mm ² , L=2000mm Output connector: RISE housing 1-178128-2 (AMP) RISE contact 175195-2				

Characteristics chart HA-B100-V5 Time base: 10ms/div





Note: The solid lines indicate the possible range of a continuous flow of electricity.

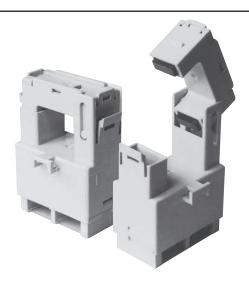
Note: The marks " \(\text{" means 0V or 0A.} \)



HA-BR series

Clamp type AC-CT

HA-BR

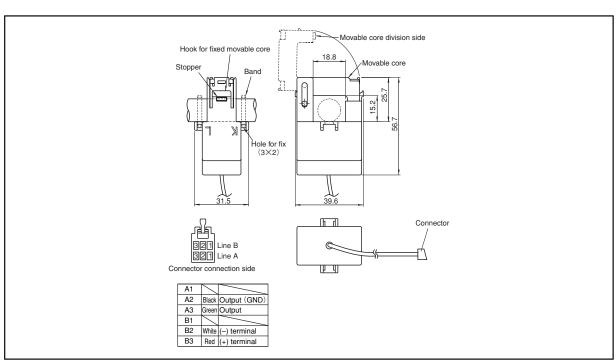


- Rated primary current ······50A ~ 100A
- Simple mounting for exiting panel which is clamp type
- Internal output protection circuit
- True actual effective value output circuit built in realizing highly precise measurement with wide input waveform
- Conventional CT + transducer may be replaced by one unit of this product.

Applications

Energy measurement unit, Exchange current measurement system

Dimensions

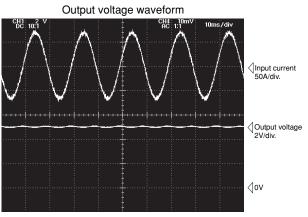


HA-BR series

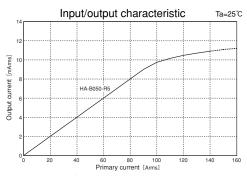
Specification Specification Type HA-B050-R5 Rated current [lf] 50Arms Frequency 45~65Hz Rated output voltage DC+5V at 50/60Hz Within $\pm 3\%$ (10~50A at input) at 50/60Hz Output voltage ratio error Within -50% (1A at input) at 50/60Hz Response time Within 500ms (Input 0~If Sine wave, Output until 90% point) Load resistance $RL \ge 5k\Omega$ Control power supply ±15V±5% Consumption current Within 5mA Operating Temp. -10°C~+55°C Storage Temp. -20°C~+60°C Dielectric withstand voltage 2500V AC 1minute Insulation resistance Not less than $10M\Omega$ 500V DC Insulation distance Not less than 8mm Cable: VCTF wire 0.2mm² 4-core L=3000mm Connector: RISE housing 1-13818119-3

HA-B050-R5 Characteristics chart Time base: 10ms/div

(AMP) RISE contact 1318106-1



Others



Note: The mark " | " means 0V or 0A.

*Control power supply specification: ±12V

*Control power supply specification: ±12V										
Туре	HC-L800V4B12	HC-LE10V4B12	HC-LE12V4B12	HC-LE15V4B12	HC-LE18V4B12	HC-LE20V4B12	HC-LE25V4B12	HC-LE30V4B12		
Rated current [If]	±800A	±1000A	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A		
Saturation current [Is]	±1200A	±2250A	±2700A	±3375A	±4000A	±4000A	±4000A	±5000A		
Linearity limits	0~±1000A	0~±2000A	0~±2500A	0~±3125A	0~±3500A	0~±3500A	0~±3500A	0~±4000A		
Rated output [Vh]				±4\/	′±1%					
Residual output [V0]				Within :	±30mV					
Output linearity				Withir	±1%					
Response time				Within 10 μ s(at	di/dt=100A/ μ s)					
Response performance		Within 10%								
Hysteresis Voltage range				Within	30mV					
Output Temp. Coef.				Within ±	0.05%/°C					
Residual output Temp. Coef.				Within ±	:2mV/°C					
Control power supply				±12\	/±5%					
Consumption current				Within	50mA					
Operating Temp.		-10°C~+80°C								
Strage Temp.	−15°C~+85°C									
Dielectric withstand voltage	2500V AC 50/60Hz 1minute									
Insulation resistance				Not less than 50	DOMΩ 500V DC					

*Control power supply specification: ±15V

*Control power supply specification: ±15V										
Туре	HC-L800V4B15	HC-LE10V4B15	HC-LE12V4B15	HC-LE15V4B15	HC-LE18V4B15	HC-LE20V4B15	HC-LE25V4B15	HC-LE30V4B15		
Rated current [If]	±800A	±1000A	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A		
Saturation current [Is]	±1200A	±2500A	±3000A	±4000A	±4000A	±4000A	±4000A	±5000A		
Linearity limits	0~±1000A	0~±2000A	0~±2500A	0~±3500A	0~±3500A	0~±3500A	0∼±3500A	0~±4000A		
Rated output [Vh]				±4\/	′±1%					
Residual output [V0]				Within :	±30mV					
Output linearity				Withir	±1%					
Response time				Within 10 μ s(at	di/dt=100A/ μ s)					
Response performance		Within 10%								
Hysteresis Voltage range				Within	30mV					
Output Temp. Coef.				Within ±	0.05%/°C					
Residual output Temp. Coef.				Within ±	:2mV/°C					
Control power supply				±15\	/±5%					
Consumption current				Within	50mA					
Operating Temp.		-10°C~+80°C								
Strage Temp.		−15°C~+85°C								
Dielectric withstand voltage	2500V AC 50/60Hz 1minute									
Insulation resistance				Not less than 50	00MΩ 500V DC					

*Control power supply specification: ±12V

*Control power supply specification	= 121						
Туре	HC-MJE10V4B12	HC-MJE15V4B12	HC-MJE20V4B12	HC-MJE25V4B12	HC-MJE30V4B12	HC-MJE35V4B12	HC-MJE40V4B12
Rated current [If]	±1000A	±1500A	±2000A	±2500A	±3000A	±3500A	±4000A
Saturation current [Is]	±2250A	±2400A	±2400A	±4800A	±4800A	±4800A	±4800A
Linearity limits	0~±2000A	0~±2000A	0~±2000A	0~±4000A	0~±4000A	0~±4000A	0~±4000A
Rated output [Vh]				±4V±1.5%			
Residual output [V0]				Within ±30mV			
Output linearity				Within ±1%			
Response time			Within	n 10 μ s(at di/dt=100A	/ μ s)		
Response performance				Within 10%			
Hysteresis Voltage range				Within 30mV			
Output Temp. Coef.				Within ±0.1%/°C			
Residual output Temp. Coef.				Within ±1.5mV/°C			
Control power supply				±12V±5%			
Consumption current				Within 50mA			
Operating Temp.				-40°C∼+80°C			
Strage Temp.				-40°C ~ +85°C			
Dielectric withstand voltage			250	00V AC 50/60Hz 1min	ute		
Insulation resistance			Not I	ess than $500 \mathrm{M}\Omega$ 500°	V DC		

*Control power supply specification: ±15V

Toolition power supply specification							
Туре	HC-MJE10V4B15	HC-MJE15V4B15	HC-MJE20V4B15	HC-MJE25V4B15	HC-MJE30V4B15	HC-MJE35V4B15	HC-MJE40V4B15
Rated current [If]	±1000A	±1500A	±2000A	±2500A	±3000A	±3500A	±4000A
Saturation current [Is]	±2400A	±2400A	±2400A	±4800A	±4800A	±4800A	±4800A
Linearity limits	0~±2000A	0~±2000A	0~±2000A	0~±4000A	0~±4000A	0~±4000A	0~±4000A
Rated output [Vh]				±4V±1.5%			
Residual output [V0]				Within ±30mV			
Output linearity				Within ±1%			
Response time			Within	n 10 <i>µ</i> s(at di∕dt=100A	/ μ s)		
Response performance				Within 10%			
Hysteresis Voltage range				Within 30mV			
Output Temp. Coef.				Within ±0.1%/°C			
Residual output Temp. Coef.				Within $\pm 1.5 \text{mV/}^{\circ}\text{C}$			
Control power supply				±15V±5%			
Consumption current				Within 50mA			
Operating Temp.				-40°C ~ +80°C			
Strage Temp.				-40°C∼+85°C			
Dielectric withstand voltage			250	00V AC 50/60Hz 1min	ute		
Insulation resistance			Not I	less than $500 \mathrm{M}\Omega$ 500°	V DC		

*Control power supply specification: ±12V

*Control power supply specification						
Туре	HC-ML300V4B12	HC-ML400V4B12	HC-ML500V4B12	HC-ML600V4B12	HC-ML800V4B12	HC-MLE10V4B12
Rated current [If]	±300A	±400A	±500A	±600A	±800A	±1000A
Saturation current [Is]	±675A	±900A	±1125A	±1200A	±1800A	±2250A
Linearity limits	0~±675A	0~±900A	0~±1000A	0~±1000A	0~±1800A	0~±1900A
Rated output [Vh]			±4\	/±1%		
Residual output [V0]			Within	±30mV		
Output linearity			Withir	n ±1%		
Response time			Within 10 μ s(at	di/dt=100A/ μ s)		
Response performance			Withi	n 10%		
Hysteresis Voltage range			Within	30mV		
Output Temp. Coef.			Within ±	=0.1%/°C		
Residual output Temp. Coef.			Within ±	=1mV/°C		
Control power supply			±12	V±5%		
Consumption current		Withir	30mA		Within	50mA
Operating Temp.			-10°C	~+80°C		
Strage Temp.			−15°C <i>‹</i>	~+85°C		
Dielectric withstand voltage			2500V AC 50	/60Hz 1minute		
Insulation resistance			Not less than 5	00MΩ 500V DC		

*Control power supply specification: ±12V

	= 121										
Туре	HC-MLE12V4B12	HC-MLE15V4B12	HC-MLE18V4B12	HC-MLE20V4B12T	HC-MLE25V4B12	HC-MLE30V4B12					
Rated current [If]	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A					
Saturation current [Is]	±2400A	±2400A	±2400A	±4500A	±5000A	±5000A					
Linearity limits	0~±1900A	0~±1900A	0~±1900A	0~±4500A 0~±4500A 0~±4500A							
Rated output [Vh]		±4V±1%			±4V±2%						
Residual output [V0]			Within	±30mV							
Output linearity			Withir	±1%							
Response time			Within 10 μ s(at	di/dt=100A/ μ s)							
Response performance		Within 10%									
Hysteresis Voltage range			Within	30mV							
Output Temp. Coef.			Within ±	=0.1%/°C							
Residual output Temp. Coef.			Within ±	=1mV/°C							
Control power supply			±12°	V±5%							
Consumption current			Within	50mA							
Operating Temp.			-10°C	~+80°C							
Strage Temp.			−15°C	~+85°C							
Dielectric withstand voltage			2500V AC 50,	/60Hz 1minute							
Insulation resistance			Not less than 5	00MΩ 500V DC							

*Control power supply specification: ±15V

*Control power supply specificatio							
Туре	HC-ML300V4B15	HC-ML400V4B15	HC-ML500V4B15	HC-ML600V4B15	HC-ML800V4B15	HC-MLE10V4B15	
Rated current [If]	±300A	±400A	±500A	±600A	±800A	±1000A	
Saturation current [Is]	±900A	±1200A	±1200A	±1200A	±2400A	±2400A	
Linearity limits	0~±900A	0~±1000A	0~±1000A	0~±1000A	0~±1900A	0~±1900A	
Rated output [Vh]			±4\	/±1%			
Residual output [V0]			Within	±30mV			
Output linearity			Withir	±1%			
Response time			Within 10 μ s(at	di/dt=100A/ μ s)			
Response performance		Within 10%					
Hysteresis Voltage range			Within	30mV			
Output Temp. Coef.			Within ±	=0.1%/°C			
Residual output Temp. Coef.			Within ±	-1mV/°C			
Control power supply			±15	ñ5%			
Consumption current		Within	30mA		Within	50mA	
Operating Temp.			-10°C	~+80°C			
Strage Temp.			−15°C	~+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC			

*Control power supply specification: ±15V

*Control power supply specification							
Туре	HC-MLE12V4B15	HC-MLE15V4B15	HC-MLE18V4B15	HC-MLE20V4B15T	HC-MLE25V4B15	HC-MLE30V4B15	
Rated current [If]	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A	
Saturation current [Is]	±2400A	±2400A	±2400A	±5000A	±5000A	±5000A	
Linearity limits	0~±1900A	0~±1900A	0~±1900A	0~±4500A 0~±4500A 0~±4500			
Rated output [Vh]		±4V±1%			±4V±2%		
Residual output [V0]			Within	±30mV			
Output linearity			Within	n ±1%			
Response time			Within 10 μ s(at	di/dt=100A/ μ s)			
Response performance			With	in 10%			
Hysteresis Voltage range			Withir	1 30mV			
Output Temp. Coef.			Within =	±0.1%/°C			
Residual output Temp. Coef.			Within ±	±1mV/°C			
Control power supply			±15	V±5%			
Consumption current			Withir	1 50mA			
Operating Temp.			−10°C	~+80°C			
Strage Temp.			−15°C	~+85°C			
Dielectric withstand voltage			2500V AC 50	/60Hz 1minute			
Insulation resistance			Not less than 5	00MΩ 500V DC			

*Control power supply specification: $\pm 12V$

1 1131	-Control power supply specification. ±12v							
Туре	HC-MN300V4B12	HC-MN400V4B12	HC-MN500V4B12	HC-MN600V4B12	HC-MN800V4B12	HC-MNE10V4B12		
Rated current [If]	±300A	±400A	±500A	±600A	±800A	±1000A		
Saturation current [Is]	±675A	±900A	±1125A	±1200A	±1800A	±2250A		
Linearity limits	0~±675A	0~±900A	0~±1000A	0~±1000A	0~±1800A	0~±1900A		
Rated output [Vh]			±4\/	′±1%				
Residual output [V0]			Within :	±30mV				
Output linearity			Withir	±1%				
Response time			Within 10 μ s(at	di/dt=100A/ μ s)				
Response performance			Withi	n 10%				
Hysteresis Voltage range			Within	30mV				
Output Temp. Coef.			Within ±	=0.1%/°C				
Residual output Temp. Coef.			Within ±	:1mV/°C				
Control power supply			±12\	/±5%				
Consumption current		Within	30mA		Within	50mA		
Operating Temp.			-10°C	~+80°C				
Strage Temp.			−15°C <i>~</i>	~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute						
Insulation resistance			Not less than 50	00MΩ 500V DC				

*Control power supply specification: ±12V

	= 121						
Туре	HC-MNE12V4B12	HC-MNE15V4B12	HC-MNE18V4B12	HC-MNE20V4B12T	HC-MNE25V4B12	HC-MNE30V4B12	
Rated current [If]	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A	
Saturation current [Is]	±2400A	±2400A	±2400A	±4500A	±5000A	±5000A	
Linearity limits	0~±1900A	0~±1900A	0~±1900A	0~±4500A 0~±4500A 0~±4500A			
Rated output [Vh]		±4V±1%			±4V±2%		
Residual output [V0]			Within	±30mV			
Output linearity			Withir	±1%			
Response time			Within 10 μ s(at	di/dt=100A/ μ s)			
Response performance			Withi	n 10%			
Hysteresis Voltage range			Within	30mV			
Output Temp. Coef.			Within ±	±0.1%/°C			
Residual output Temp. Coef.			Within ±	=1mV/°C			
Control power supply			±12°	V±5%			
Consumption current			Within	50mA			
Operating Temp.			-10°C	~+80°C			
Strage Temp.			-15°C	~+85°C			
Dielectric withstand voltage			2500V AC 50,	/60Hz 1minute			
Insulation resistance			Not less than 5	00MΩ 500V DC			
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*Control power supply specification: ±15V

*Control power supply specification	= 10 1						
Туре	HC-MN300V4B15	HC-MN400V4B15	HC-MN500V4B15	HC-MN600V4B15	HC-MN800V4B15	HC-MNE10V4B15	
Rated current [If]	±300A	±400A	±500A	±600A	±800A	±1000A	
Saturation current [Is]	±900A	±1200A	±1200A	±1200A	±2400A	±2400A	
Linearity limits	0~±900A	0~±1000A	0~±1000A	0~±1000A	0~±1900A	0~±1900A	
Rated output [Vh]			±4\/	′±1%			
Residual output [V0]			Within	±30mV			
Output linearity			Withir	±1%			
Response time			Within 10 μ s(at	di/dt=100A/ μ s)			
Response performance			Withi	n 10%			
Hysteresis Voltage range			Within	30mV			
Output Temp. Coef.			Within ±	=0.1%/°C			
Residual output Temp. Coef.			Within ±	1mV/°C			
Control power supply			±15	ñ5%			
Consumption current		Withir	30mA		Within	50mA	
Operating Temp.			−10°C	~+80°C			
Strage Temp.			−15°C <i>*</i>	~+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC			

*Control power supply specification: $\pm 15V$

- Control power supply speciments							
Туре	HC-MNE12V4B15	HC-MNE15V4B15	HC-MNE18V4B15	HC-MNE20V4B15T	HC-MNE25V4B15	HC-MNE30V4B15	
Rated current [If]	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A	
Saturation current [Is]	±2400A	±2400A	±2400A	±5000A	±5000A	±5000A	
Linearity limits	0~±1900A	0~±1900A	0~±1900A	0~±4500A 0~±4500A 0~±4500			
Rated output [Vh]		±4V±1%			±4V±2%		
Residual output [V0]			Within	±30mV			
Output linearity			Withir	1 ±1%			
Response time			Within 10μ s(at	di/dt=100A/ μ s)			
Response performance			Withi	n 10%			
Hysteresis Voltage range			Within	30mV			
Output Temp. Coef.			Within ±	=0.1%/°C			
Residual output Temp. Coef.			Within ±	=1mV/°C			
Control power supply			±15\	V±5%			
Consumption current			Within	50mA			
Operating Temp.			-10°C	~+80°C			
Strage Temp.		-15°C∼+85°C					
Dielectric withstand voltage			2500V AC 50	/60Hz 1minute			
Insulation resistance			Not less than 5	00MΩ 500V DC			

*Control power supply specification: ±12V

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Туре	HC-MSL300V4B12	HC-MSL400V4B12	HC-MSL500V4B12	HC-MSL600V4B12	HC-MSL800V4B12	HC-MSLE10V4B12	
Rated current [If]	±300A	±400A	±500A	±600A	±800A	±1000A	
Saturation current [Is]	±675A	±900A	±1125A	±1200A	±1800A	±2250A	
Linearity limits	0~±675A	0~±900A	0~±1000A	0~±1000A	0~±1800A	0~±1900A	
Rated output [Vh]			±4\	/±1%			
Residual output [V0]			Within	±30mV			
Output linearity			Withir	±1%			
Response time			Within 10 μ s(at	di/dt=100A/ μ s)			
Response performance		Within 10%					
Hysteresis Voltage range			Within	30mV			
Output Temp. Coef.			Within ±	=0.1%/°C			
Residual output Temp. Coef.			Within ±	1mV/°C			
Control power supply			±12\	∨±5%			
Consumption current		Within	30mA		Within	50mA	
Operating Temp.			-10°C	~+80°C			
Strage Temp.			−15°C <i>*</i>	~+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC			
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**Oorti of power supply specification	= 121					
Туре	HC-MSLE12V4B12	HC-MSLE15V4B12	HC-MSLE18V4B12	HC-MSLE20V4B12T	HC-MSLE25V4B12	HC-MSLE30V4B12
Rated current [If]	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A
Saturation current [Is]	±2400A	±2400A	±2400A	±4500A	±5000A	±5000A
Linearity limits	0~±1900A	0~±1900A	0~±1900A	0~±4500A	0~±4500A	0~±4500A
Rated output [Vh]		±4V±1%			±4V±2%	
Residual output [V0]			Within	±30mV		
Output linearity			Withir	±1%		
Response time			Within 10 μ s(at	di/dt=100A/ μ s)		
Response performance			Withi	n 10%		
Hysteresis Voltage range			Within	30mV		
Output Temp. Coef.			Within ±	±0.1%/°C		
Residual output Temp. Coef.			Within ±	=1mV/°C		
Control power supply			±12°	V±5%		
Consumption current			Within	50mA		
Operating Temp.			−10°C	~+80°C		
Strage Temp.	−15°C ~ +85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC		

Type	**Control power supply specification								
Saturation current [Is]	Туре	HC-MSL300V4B15	HC-MSL400V4B15	HC-MSL500V4B15	HC-MSL600V4B15	HC-MSL800V4B15	HC-MSLE10V4B15		
Linearity limits 0~±900A 0~±1000A 0~±1000A 0~±1900A 0~±1900A Rated output [Vh] ±4V±1% Residual output [V0] Within ±30mV Output linearity Within ±1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ±1mV/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±15V±5% Consumption current Within 30mA Within 50mA Operating Temp. −10°C~+80°C Strage Temp. −15°C~+85°C	Rated current [If]	±300A	±400A	±500A	±600A	±800A	±1000A		
Rated output [Vh] ± 4V ± 1% Residual output [VO] Within ± 30mV Output linearity Within ± 1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ± 0.1%/°C Residual output Temp. Coef. Within ± 1mV/°C Control power supply ± 15V±5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C~+80°C Strage Temp. -15°C~+85°C	Saturation current [Is]	±900A	±1200A	±1200A	±1200A	±2400A	±2400A		
Residual output [V0] Within ±30mV Output linearity Within ±1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±15V±5% Consumption current Within 30mA Operating Temp. −10°C~+80°C Strage Temp. −15°C~+85°C	Linearity limits	0~±900A	0~±1000A	0~±1000A	0~±1000A	0~±1900A	0~±1900A		
Output linearity Within $\pm 1\%$ Response time Within 10μ s(at di/dt= $100 A/ \mu$ s) Response performance Within 10% Hysteresis Voltage range Within $30mV$ Output Temp. Coef. Within $\pm 0.1\%$ °C Residual output Temp. Coef. Within $\pm 1mV/$ °C Control power supply $\pm 15V \pm 5\%$ Consumption current Within $30mA$ Within $50mA$ Operating Temp. $-10^{\circ}C \sim +80^{\circ}C$ Strage Temp. $-15^{\circ}C \sim +85^{\circ}C$	Rated output [Vh]			±4\/	′±1%				
Response time Within 10μ s(at di/dt= $100 \text{A} / \mu$ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within $\pm 0.1\%$ °C Residual output Temp. Coef. Within $\pm 1 \text{mV}$ °C Control power supply $\pm 15 \text{V} \pm 5\%$ Consumption current Within 30mA Within 50mA Operating Temp. $-10 \text{°C} \sim +80 \text{°C}$ Strage Temp.	Residual output [V0]			Within :	±30mV				
Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Residual output Temp. Coef. Within ±1mV/°C Control power supply ±15V±5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C∼+80°C Strage Temp.	Output linearity			Withir	±1%				
Hysteresis Voltage range Output Temp. Coef. Residual output Temp. Coef. Within $\pm 0.1\%$ °C Within $\pm 1 \text{mV/°C}$ Control power supply $\pm 15V \pm 5\%$ Consumption current Within 30mA Within 50mA Operating Temp. $-10^{\circ}\text{C} \sim +80^{\circ}\text{C}$ Strage Temp.	Response time			Within 10 μ s(at	di/dt=100A/μs)				
Output Temp. Coef. Residual output Temp. Coef. Control power supply Consumption current Within $\pm 1 \text{mV/}^{\circ}\text{C}$ Within $\pm 1 \text{mV/}^{\circ}\text{C}$ $\pm 15 \text{V} \pm 5 \text{\%}$ Consumption current Within 30mA Within 50mA Operating Temp. $-10^{\circ}\text{C} \sim +80^{\circ}\text{C}$ Strage Temp. $-15^{\circ}\text{C} \sim +85^{\circ}\text{C}$	Response performance			Withi	n 10%				
Residual output Temp. Coef. Control power supply Consumption current Within 30mA Within 30mA Within 50mA Operating Temp. Strage Temp. -15°C~+85°C	Hysteresis Voltage range		Within 30mV						
Control power supply Consumption current Within 30mA Within 30mA Within 50mA Operating Temp. −10°C∼+80°C −15°C∼+85°C	Output Temp. Coef.			Within ±	=0.1%/°C				
Consumption current Within 30mA Operating Temp. Strage Temp. Within 30mA Within 50mA -10°C~+80°C -15°C~+85°C	Residual output Temp. Coef.			Within ±	:1mV/°C				
Operating Temp. -10°C∼+80°C Strage Temp. -15°C∼+85°C	Control power supply			±15\	/±5%				
Strage Temp15°C~+85°C	Consumption current		Within	30mA		Within	50mA		
	Operating Temp.			−10°C	~+80°C				
Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Strage Temp.		−15°C~+85°C						
	Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance Not less than 500M Ω 500V DC	Insulation resistance			Not less than 50	00MΩ 500V DC				

Туре	HC-MSLE12V4B15	HC-MSLE15V4B15	HC-MSLE18V4B15	HC-MSLE20V4B15T	HC-MSLE25V4B15	HC-MSLE30V4B15		
Rated current [If]	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A		
Saturation current [Is]	±2400A	±2400A	±2400A	±5000A	±5000A	±5000A		
Linearity limits	0~±1900A	0~±1900A	0~±1900A	0~±4500A	0~±4500A	0~±4500A		
Rated output [Vh]		±4V±1%			±4V±2%			
Residual output [V0]			Within	±30mV				
Output linearity			Withir	n ±1%				
Response time			Within 10 μ s(at	di/dt=100A/ μ s)				
Response performance		Within 10%						
Hysteresis Voltage range			Within	30mV				
Output Temp. Coef.			Within ∃	=0.1%/°C				
Residual output Temp. Coef.			Within ±	=1mV/°C				
Control power supply			±15	V±5%				
Consumption current			Within	50mA				
Operating Temp.			−10°C	~+80°C				
Strage Temp.	−15°C ~ +85°C							
Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance			Not less than 5	00MΩ 500V DC				

Type HC-MSN300V4B12 HC-MSN400V4B12 HC-MSN600V4B12 HC-MSN600V4B12 HC-MSN800V4B12 HC-MSN80VAB12 HC-MSN80V		= 121							
Saturation current [Is] ±675A ±900A ±1125A ±1200A ±1800A ±2250A Linearity limits 0~±675A 0~±900A 0~±1000A 0~±1000A 0~±1800A 0~±1900A Rated output [Vh] East output [Vo] Within ±30mV Output linearity Within 10 μ s(at di/dt=100A/μs) Response time Within 10 μ s(at di/dt=100A/μs) Hysteresis Voltage range Within ±0.1%/°C Output Temp. Coef. Within ±0.1%/°C Control power supply ±12V±5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C~+86°C Strage Temp. Dielectric withstand voltage 2500V AC 50/60Hz Iminute	Туре	HC-MSN300V4B12	HC-MSN400V4B12	HC-MSN500V4B12	HC-MSN600V4B12	HC-MSN800V4B12	HC-MSNE10V4B12		
Linearity limits 0~±675A 0~±900A 0~±1000A 0~±1000A 0~±1800A 0~±1900A Rated output [Vh] ±4V±1% Residual output [V0] Within ±30mV Output linearity Within 10 μ s(at di/dt=100A/μ s) Response time Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±12V±5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C~+80°C Strage Temp. -15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1 minute	Rated current [If]	±300A	±400A	±500A	±600A	±800A	±1000A		
Rated output [Vh] ± 4V ± 1% Residual output [VO] Within ± 30mV Output linearity Within ± 1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ± 1mV/°C Residual output Temp. Coef. Within ± 1mV/°C Control power supply ± 12V ± 5% Consumption current Within 30mA Within 50mA Operating Temp. −10°C ~+80°C Strage Temp. −15°C ~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Saturation current [Is]	±675A	±900A	±1125A	±1200A	±1800A	±2250A		
Residual output [V0] Within ±30mV Output linearity Within ±1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±12V±5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C~+80°C Strage Temp. -15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Linearity limits	0~±675A	0~±900A	0~±1000A	0~±1000A	0~±1800A	0~±1900A		
Output linearity Within ± 1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ± 0.1%/°C Residual output Temp. Coef. Within ± 1mV/°C Control power supply ± 12V ± 5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C ~+80°C Strage Temp. -15°C ~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Rated output [Vh]			±4\/	'±1%				
Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±12V±5% Consumption current Within 30mA Within 50mA Operating Temp. −10°C~+80°C Strage Temp. −15°C~+85°C Dielectric withstand voltage 25000V AC 50/60Hz 1minute	Residual output [V0]			Within	±30mV				
Response performance Hysteresis Voltage range Output Temp. Coef. Residual output Temp. Coef. Within ±0.1½°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±12V±5% Consumption current Within 30mA Within 50mA Operating Temp. Strage Temp. Dielectric withstand voltage	Output linearity			Withir	±1%				
Hysteresis Voltage range Output Temp. Coef. Residual output Temp. Coef. Control power supply Consumption current Within 30mA Within 30mA Within 50mA Operating Temp. Strage Temp. Dielectric withstand voltage	Response time		Within 10 μ s(at di/dt=100A/ μ s)						
Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±12V±5% Consumption current Within 30mA Within 50mA Operating Temp. −10°C∼+80°C Strage Temp. −15°C∼+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Response performance		Within 10%						
Residual output Temp. Coef. Within ±1mV/°C Control power supply ±12V±5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C∼+80°C Strage Temp. -15°C∼+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Hysteresis Voltage range			Within	30mV				
Control power supply Consumption current Within 30mA Operating Temp. Strage Temp. Dielectric withstand voltage ±12V±5% Within 30mA Within 50mA -10°C~+80°C -15°C~+85°C 2500V AC 50/60Hz 1minute	Output Temp. Coef.			Within ±	=0.1%/°C				
Consumption current Within 30mA Operating Temp. Strage Temp. Dielectric withstand voltage Within 30mA Within 50mA -10°C~+80°C -15°C~+85°C 2500V AC 50/60Hz 1minute	Residual output Temp. Coef.			Within ±	-1mV/°C				
Operating Temp. -10°C~+80°C Strage Temp. -15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Control power supply			±12\	∨±5%				
Strage Temp. −15°C∼+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Consumption current		Within	30mA		Within	50mA		
Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Operating Temp.			-10°C	~+80°C				
	Strage Temp.			−15°C	~+85°C				
Insulation resistance Not less than 500MΩ 500V DC	Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
	Insulation resistance			Not less than 5	00MΩ 500V DC				

Control portor dapping operational in 2.124								
Туре	HC-MSNE12V4B12	HC-MSNE15V4B12	HC-MSNE18V4B12	HC-MSNE20V4B12T	HC-MSNE25V4B12	HC-MSNE30V4B12		
Rated current [If]	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A		
Saturation current [Is]	±2400A	±2400A	±2400A	±4500A	±5000A	±5000A		
Linearity limits	0~±1900A	0~±1900A	0~±1900A	0~±4500A	0~±4500A	0~±4500A		
Rated output [Vh]		±4V±1%			±4V±2%			
Residual output [V0]			Within	±30mV				
Output linearity			Withir	n ±1%				
Response time		Within 10 μ s(at di/dt=100A/ μ s)						
Response performance		Within 10%						
Hysteresis Voltage range			Within	30mV				
Output Temp. Coef.			Within ∃	=0.1%/°C				
Residual output Temp. Coef.			Within ±	=1mV/°C				
Control power supply			±12°	V±5%				
Consumption current			Within	50mA				
Operating Temp.			−10°C	~+80°C				
Strage Temp.	-15°C~+85°C							
Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance			Not less than 5	00MΩ 500V DC				

Type HC-MSN300V4B15 HC-MSN400V4B15 HC-MSN600V4B15 HC-MSN600V4B15 HC-MSN800V4B15 ±1000A Saturation current [8] ± \$900A ± \$1200A ± \$2400A		= 101							
Saturation current [Is] ±900A ±1200A ±1200A ±1200A ±2400A ±2400A Linearity limits 0 ~ ±900A 0 ~ ±1000A 0 ~ ±1000A 0 ~ ±1900A 0 ~ ±1900A Residual output [Vh] ±4V±1% Residual output [Vl] Within ±30mV Output linearity Within 10½ scat di./ dt=100A/ μ s) Response time Within 10½ Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ±0.1½/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±15V±5% Consumption current Within 30mA Within 50mA Operating Temp. −10°C~+85°C Strage Temp. −15°C~+85°C Dielectric withstand voltage 25000 AC 50/60Hz Iminute	Туре	HC-MSN300V4B15	HC-MSN400V4B15	HC-MSN500V4B15	HC-MSN600V4B15	HC-MSN800V4B15	HC-MSNE10V4B15		
Linearity limits 0~±900A 0~±1000A 0~±1000A 0~±1900A 0~±1900A Rated output [Vh] ±4V±1% Residual output [V0] Within ±30mV Output linearity Within 10 μ s(at di/dt=100A/ μ s) Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 30mV Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±15V±5% Consumption current Within 30mA Within 50mA Operating Temp. −10°C~+80°C Strage Temp. −15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1 minute	Rated current [If]	±300A	±400A	±500A	±600A	±800A	±1000A		
Rated output [Vh] ± 4V ± 1% Residual output [VO] Within ± 30mV Output linearity Within ± 1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ± 1mV/°C Residual output Temp. Coef. Within ± 1mV/°C Control power supply ± 15V ± 5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C ~ +80°C Strage Temp. -15°C ~ +85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Saturation current [Is]	±900A	±1200A	±1200A	±1200A	±2400A	±2400A		
Residual output [V0] Output linearity Within ±1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±15V±5% Consumption current Within 30mA Within 50mA Operating Temp. −10°C~+80°C Strage Temp. −15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Linearity limits	0~±900A	0~±1000A	0~±1000A	0~±1000A	0~±1900A	0~±1900A		
Output linearity Within ± 1% Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ± 0.1%/°C Residual output Temp. Coef. Within ± 1mV/°C Control power supply ± 15V ± 5% Consumption current Within 30mA Within 50mA Operating Temp. -10°C ~+80°C Strage Temp. -15°C ~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Rated output [Vh]			±4\/	'±1%				
Response time Within 10 μ s(at di/dt=100A/ μ s) Response performance Within 10% Hysteresis Voltage range Within 30mV Output Temp. Coef. Within ±0.1%/°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ± 15V±5% Consumption current Within 30mA Within 50mA Operating Temp. −10°C~+80°C Strage Temp. −15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Residual output [V0]			Within	±30mV				
Response performance Hysteresis Voltage range Output Temp. Coef. Residual output Temp. Coef. Within ±0.1%°C Residual output Temp. Coef. Within ±1mV/°C Control power supply ±15V±5% Consumption current Within 30mA Within 50mA Operating Temp. Strage Temp. Dielectric withstand voltage	Output linearity			Withir	±1%				
Hysteresis Voltage range Output Temp. Coef. Residual output Temp. Coef. Control power supply Consumption current Within 30mA Within 30mA Within 50mA Operating Temp. Strage Temp. Dielectric withstand voltage	Response time		Within 10 μ s(at di/dt=100A/ μ s)						
Output Temp. Coef. Residual output Temp. Coef. Within ±1mV/°C Control power supply Consumption current Within 30mA Within 30mA Within 50mA Operating Temp. Strage Temp. Dielectric withstand voltage	Response performance		Within 10%						
Residual output Temp. Coef. Control power supply Consumption current Within 30mA Within 50mA Operating Temp. Strage Temp. Dielectric withstand voltage Within 30mA Within 30mA -10°C~+80°C -15°C~+85°C Dielectric withstand voltage	Hysteresis Voltage range		Within 30mV						
Control power supply Consumption current Within 30mA Operating Temp. Strage Temp. Dielectric withstand voltage ### Took of the consumption o	Output Temp. Coef.			Within ±	=0.1%/°C				
Consumption current Within 30mA Operating Temp. Strage Temp. Dielectric withstand voltage Within 30mA Within 50mA -10°C~+80°C -15°C~+85°C 2500V AC 50/60Hz 1minute	Residual output Temp. Coef.			Within ±	-1mV/°C				
Operating Temp. Strage Temp. Dielectric withstand voltage -10°C~+80°C -15°C~+85°C 2500V AC 50/60Hz 1minute	Control power supply			±15\	∨±5%				
Strage Temp15°C~+85°C Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Consumption current		Within	30mA		Within	50mA		
Dielectric withstand voltage 2500V AC 50/60Hz 1minute	Operating Temp.			−10°C	~+80°C				
	Strage Temp.			−15°C	~+85°C				
Insulation resistance Not less than 500M Ω 500V DC	Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
	Insulation resistance			Not less than 5	00MΩ 500V DC				

Control porter dapping operational and a rev								
Туре	HC-MSNE12V4B15	HC-MSNE15V4B15	HC-MSNE18V4B15	HC-MSNE20V4B15T	HC-MSNE25V4B15	HC-MSNE30V4B15		
Rated current [If]	±1200A	±1500A	±1800A	±2000A	±2500A	±3000A		
Saturation current [Is]	±2400A	±2400A	±2400A	±5000A	±5000A	±5000A		
Linearity limits	0~±1900A	0~±1900A	0~±1900A	0~±4500A	0~±4500A	0~±4500A		
Rated output [Vh]		±4V±1%			±4V±2%			
Residual output [V0]			Within	±30mV				
Output linearity			Withir	n ±1%				
Response time			Within 10 μ s(at	di/dt=100A/ μ s)				
Response performance		Within 10%						
Hysteresis Voltage range			Within	30mV				
Output Temp. Coef.			Within ±	=0.1%/°C				
Residual output Temp. Coef.			Within ±	=1mV/°C				
Control power supply			±15	V±5%				
Consumption current			Within	50mA				
Operating Temp.			−10°C	~+80°C				
Strage Temp.	-15°C~+85°C							
Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance			Not less than 5	00MΩ 500V DC				

Туре	HC-PD05V4B12	HC-PD10V4B12	HC-PD20V4B12	HC-PD30V4B12	HC-PD40V4B12	HC-PD50V4B12
Rated current [If]	±5A	±10A	±20A	±30A	±40A	±50A
Continuosly flowing DC current	±8.8A	±23.3A	±23.3A	±35.4A	±35.4A	±35.4A
Saturation current [Is]	±11.25A	±22.5A	±45A	±67.5A	±90A	±90A
Linearity limits	0~±11.25A	0~±22.5A	0~±37.5A	0~±67.5A	0~±75A	0~±75A
Size of primary winding	ϕ 0.8	φ1.3	φ1.3	φ1.6	φ1.6	φ 1.6
Turns	6	3	2	1	1	1
Rated output [Vh]			±4V±2%	(RL=10kΩ)		
Residual output [V0]			Within =	±100mV		
Output linearity			Withir	1 ±1%		
Response time			Within 10μ s (a	at di/dt=If/ μ s)		
Response performance			Withi	n 10%		
Hysteresis Voltage range			Within	100mV		
Output Temp. Coef.			Within ±	=0.1%/°C		
Residual output Temp. Coef.			Within ±	-6mV/°C		
Control power supply			±12\	V±5%		
Consumption current			Within	30mA		
Operating Temp.			-10°C	~+80°C		
Strage Temp.	−15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 50	00MΩ 500V DC		

*Control power supply specificatio	11. ± 13 €					
Туре	HC-PD05V4B15	HC-PD10V4B15	HC-PD20V4B15	HC-PD30V4B15	HC-PD40V4B15	HC-PD50V4B15
Rated current [If]	±5A	±10A	±20A	±30A	±40A	±50A
Continuosly flowing DC current	±8.8A	±23.3A	±23.3A	±35.4A	±35.4A	±35.4A
Saturation current [Is]	±15A	±30A	±45A	±90A	±90.0A	±90A
Linearity limits	0~±12.5A	0~±25A	0~±37.5A	0~±75A	0~±75A	0~±75A
Size of primary winding	φ 0.8	φ1.3	φ1.3	φ1.6	φ 1.6	φ 1.6
Turns	6	3	2	1	1	1
Rated output [Vh]			±4V±2%	(RL=10kΩ)		
Residual output [V0]			Within =	±100mV		
Output linearity			Withir	±1%		
Response time			Within 10μ s (a	at di/dt=If/ μ s)		
Response performance			Withi	n 10%		
Hysteresis Voltage range			Within	100mV		
Output Temp. Coef.			Within ±	=0.1%/°C		
Residual output Temp. Coef.			Within ±	-6mV/°C		
Control power supply			±15\	V±5%		
Consumption current			Within	30mA		
Operating Temp.			-10°C	~+80°C		
Strage Temp.	−15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 50	00MΩ 500V DC		

*Control power supply specification	11. ± 12 V					
Туре	HC-PDG05V4B12	HC-PDG10V4B12	HC-PDG15V4B12	HC-PDG20V4B12	HC-PDG25V4B12	
Rated current [If]	±5A	±10A	±15A	±20A	±25A	
Continuosly flowing DC current	±8.8A	±13.8A	±23.3A	±23.3A	±23.3A	
Saturation current [Is]	±11.25A	±22.5A	±33.75A	±45A	±56.25A	
Linearity limits	0~±11.25A	0~±22.5A	0~±33.75A	0~±45A	0~±56.25A	
Size of primary winding	φ 0.8	φ 1.0	φ1.3	φ1.3	φ1.3	
Turns	10	6	4	3	2	
Rated output [Vh]			\pm 4V \pm 1.5% (RL=10k Ω)			
Residual output [V0]			Within ±50mV			
Output linearity			Within ±1%			
Response time			Within 10 μ s (at di/dt=If/ μ s)			
Response performance			Within 10%			
Hysteresis Voltage range			Within 60mV			
Output Temp. Coef.			Within $\pm 0.1\%$ °C			
Residual output Temp. Coef.			Within ± 2 mV/°C			
Control power supply			±12V±5%			
Consumption current			Within 20mA			
Operating Temp.			-10°C ~ +80°C			
Strage Temp.	−15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than $500M\Omega$ $500V$ DC			
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*Control power supply specification	11. ± 12 V							
Туре	HC-PDG30V4B12	HC-PDG35V4B12	HC-PDG40V4B12	HC-PDG45V4B12	HC-PDG50V4B12			
Rated current [If]	±30A	±35A	±40A	±45A	±50A			
Continuosly flowing DC current	±23.3A	±23.3A	±35.4A	±35.4A	±35.4A			
Saturation current [Is]	±67.5A	±78.75A	±90A	±101.25A	±112.5A			
Linearity limits	0~±67.5A	0~±67.5A	0~±90A	0~±101.25A	0~±112.5A			
Size of primary winding	φ1.3	φ1.3	φ 1.6	φ 1.6	φ 1.6			
Turns	2	2	1	1	1			
Rated output [Vh]			±4V±1.5% (RL=10kΩ)					
Residual output [V0]			Within ±50mV					
Output linearity			Within ±1%					
Response time			Within 10 μ s (at di/dt=If/ μ s)					
Response performance			Within 10%					
Hysteresis Voltage range			Within 60mV					
Output Temp. Coef.			Within $\pm 0.1\%$ °C					
Residual output Temp. Coef.			Within $\pm 2 \text{mV/}^{\circ}\text{C}$					
Control power supply			±12V±5%					
Consumption current			Within 20mA					
Operating Temp.			-10°C ~ +80°C					
Strage Temp.		-15°C~+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance		Not less than 500M Ω 500V DC						

*Control power supply specification	11. ± 15 V						
Туре	HC-PDG05V4B15	HC-PDG10V4B15	HC-PDG15V4B15	HC-PDG20V4B15	HC-PDG25V4B15		
Rated current [If]	±5A	±10A	±15A	±20A	±25A		
Continuosly flowing DC current	±8.8A	±13.8A	±23.3A	±23.3A	±23.3A		
Saturation current [Is]	±15A	±25A	±37.5A	±50A	±75A		
Linearity limits	0~±13.5A	0~±22.5A	0~±33.75A	0~±45A	0~±67.5A		
Size of primary winding	ϕ 0.8	φ 1.0	φ 1.3	φ1.3	φ 1.3		
Turns	10	6	4	3	2		
Rated output [Vh]			\pm 4V \pm 1.5% (RL=10k Ω)				
Residual output [V0]			Within ±50mV				
Output linearity			Within ±1%				
Response time			Within 10 μ s (at di/dt=If/ μ s)				
Response performance			Within 10%				
Hysteresis Voltage range			Within 60mV				
Output Temp. Coef.			Within $\pm 0.1\%$ /°C				
Residual output Temp. Coef.			Within ± 2 mV/°C				
Control power supply			±15V±5%				
Consumption current			Within 20mA				
Operating Temp.			-10°C∼+80°C				
Strage Temp.	−15°C~+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute						
Insulation resistance			Not less than $500M\Omega$ $500V$ DC				

*Control power supply specification	III. ± 15 V								
Туре	HC-PDG30V4B15	HC-PDG35V4B15	HC-PDG40V4B15	HC-PDG45V4B15	HC-PDG50V4B15				
Rated current [If]	±30A	±35A	±40A	±45A	±50A				
Continuosly flowing DC current	±23.3A	±23.3A	±35.4A	±35.4A	±35.4A				
Saturation current [Is]	±75A	±75A	±120A	±135A	±150A				
Linearity limits	0~±67.5A	0~±67.5A	0~±120A	0~±135A	0~±135A				
Size of primary winding	φ1.3	φ 1.3	φ 1.6	φ 1.6	φ 1.6				
Turns	2	2	1	1	1				
Rated output [Vh]			\pm 4V \pm 1.5% (RL=10k Ω)						
Residual output [V0]			Within ±50mV						
Output linearity		Within ±1%							
Response time		Within 10 μ s (at di/dt=If/ μ s)							
Response performance			Within 10%						
Hysteresis Voltage range			Within 60mV						
Output Temp. Coef.			Within ±0.1%/°C						
Residual output Temp. Coef.			Within ± 2 mV/°C						
Control power supply			±15V±5%						
Consumption current			Within 20mA						
Operating Temp.			-10°C∼+80°C						
Strage Temp.			-15°C∼+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute								
Insulation resistance			Not less than $500 \mathrm{M}\Omega$ $500 \mathrm{V}$ DC						
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Toolid of power supply specification	711. ± 12 V								
Туре	HC-PDK50V4B12	HC-PDK60V4B12	HC-PDK70V4B12	HC-PDK80V4B12	HC-PDK90V4B12	HC-PDK100V4B12			
Rated current [If]	±50A	±60A	±70A	±80A	±90A	±100A			
Continuosly flowing DC current		±100A							
Saturation current [Is]	±112.5A	±135A		±1	50A				
Linearity limits	0~±112.5A			0~±135A					
Size of busbar			Bus bar	□1 x 7.8					
Turns				1					
Rated output [Vh]			±4V±1.5%	(RL=10kΩ)					
Residual output [V0]			Within	±50mV					
Output linearity			Withir	±1%					
Response time			Within 10 μ s (a	at di/dt=If/μs)					
Response performance			Withi	n 10%					
Hysteresis Voltage range			Within	60mV					
Output Temp. Coef.			Within ±	=0.1%/°C					
Residual output Temp. Coef.			Within ±	2mV/°C					
Control power supply			±12	V±5%					
Consumption current			Within	20mA					
Operating Temp.			-10°C	~+80°C					
Strage Temp.			-15°C	~+85°C					
Dielectric withstand voltage			2500V AC 50	/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC					

Toolid of power supply specification									
Туре	HC-PDK50V4B15	HC-PDK60V4B15	HC-PDK70V4B15	HC-PDK80V4B15	HC-PDK90V4B15	HC-PDK100V4B15			
Rated current [If]	±50A	±60A	±70A	±80A	±90A	±100A			
Continuosly flowing DC current		±100A							
Saturation current [Is]		±150A							
Linearity limits			0~±	135A					
Size of busbar			Bus bar	□1 x 7.8					
Turns				1					
Rated output [Vh]			±4V±1.5%	(RL=10kΩ)					
Residual output [V0]			Within	±50mV					
Output linearity			Withir	±1%					
Response time			Within 10 μ s (a	at di/dt=If/μs)					
Response performance			Withi	n 10%					
Hysteresis Voltage range			Within	60mV					
Output Temp. Coef.			Within ±	=0.1%/°C					
Residual output Temp. Coef.			Within ±	2mV/°C					
Control power supply			±15	V±5%					
Consumption current			Within	20mA					
Operating Temp.			-10°C	~+80°C					
Strage Temp.			-15°C	~+85°C					
Dielectric withstand voltage			2500V AC 50	/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC					

*Control power supply specification	11. <u>-</u> 12 v							
Туре	HC-PDN05V4B12	HC-PDN10V4B12	HC-PDN20V4B12	HC-PDN30V4B12	HC-PDN40V4B12	HC-PDN50V4B12		
Rated current [If]	±5A	±10A	±20A	±30A	±40A	±50A		
Continuosly flowing DC current	±8.8A	±23.3A	±23.3A	±35.4A	±35.4A	±35.4A		
Saturation current [Is]	±11.25A	±22.5A	±45A	±67.5A	±90A	±90A		
Linearity limits	0~±11.25A	0~±22.5A	0~±37.5A	0~±67.5A	0~±75A	0~±75A		
Size of primary winding	φ 0.8	φ 1.3	φ1.3	φ 1.6	φ 1.6	φ 1.6		
Turns	6	3	2	1	1	1		
Rated output [Vh]			±4V±2%	(RL=10kΩ)				
Residual output [V0]			Within :	±100mV				
Output linearity		Within ±1%						
Response time	Within 10 μ s (at di/dt=If/ μ s)							
Response performance			Withi	n 10%				
Hysteresis Voltage range			Within	100mV				
Output Temp. Coef.			Within ±	=0.1%/°C				
Residual output Temp. Coef.			Within ±	-6mV/°C				
Control power supply			±12	V±5%				
Consumption current			Within	30mA				
Operating Temp.			-10°C	~+80°C				
Strage Temp.			−15°C	~+85°C				
Dielectric withstand voltage			2500V AC 50	/60Hz 1minute				
Insulation resistance			Not less than 5	00MΩ 500V DC				

*Control power supply specification	11. ± 10 V							
Туре	HC-PDN05V4B15	HC-PDN10V4B15	HC-PDN20V4B15	HC-PDN30V4B15	HC-PDN40V4B15	HC-PDN50V4B15		
Rated current [If]	±5A	±10A	±20A	±30A	±40A	±50A		
Continuosly flowing DC current	±8.8A	±23.3A	±23.3A	±35.4A	±35.4A	±35.4A		
Saturation current [Is]	±15A	±30A	±45A	±90A	±90.0A	±90A		
Linearity limits	0~±12.5A	0~±25A	0~±37.5A	0~±75A	0~±75A	0~±75A		
Size of primary winding	φ 0.8	φ1.3	φ1.3	φ 1.6	φ 1.6	φ 1.6		
Turns	6	3	2	1	1	1		
Rated output [Vh]			±4V±2%	(RL=10kΩ)				
Residual output [V0]			Within =	±100mV				
Output linearity		Within ±1%						
Response time	Within 10 μ s (at di/dt=If/ μ s)							
Response performance			Withi	n 10%				
Hysteresis Voltage range			Within	100mV				
Output Temp. Coef.			Within ±	±0.1%/°C				
Residual output Temp. Coef.			Within ±	=6mV/°C				
Control power supply			±15	V±5%				
Consumption current			Within	30mA				
Operating Temp.			-10°C	~+80°C				
Strage Temp.			-15°C	~+85°C				
Dielectric withstand voltage			2500V AC 50/	/60Hz 1minute				
Insulation resistance			Not less than 5	00MΩ 500V DC				

*Control power supply specification. ±12V								
Туре	HC-PFG03V4B12	HC-PFG05V4B12	HC-PFG10V4B12	HC-PFG15V4B12	HC-PFG20V4B12	HC-PFG25V4B12	HC-PFG30V4B12	
Rated current [If]	±3A	±5A	±10A	±15A	±20A	±25A	±30A	
Continuosly flowing DC current	±5A	±8.8A	±8.8A	±23.3A	±23.3A	±23.3A	±23.3A	
Saturation current [Is]	±6.75A	±11.25A	±22.5A	±33.75A	±45A	±56.25A	±67.5A	
Linearity limits	0~±6.75A	0~±11.25A	0~±22.5A	0~±33.75A	0~±45A	0~±56.25A	0~±62.5A	
Size of primary winding	ϕ 0.6	φ 0.8	φ 0.8	φ1.3	φ1.3	φ1.3	φ 1.3	
Turns	16	10	5	3	2	2	2	
Rated output [Vh]				±4V±2% (RL=10kΩ))			
Residual output [V0]				Within ±100mV				
Output linearity				Within ±1%				
Response time			With	nin 10 μ s (at di/dt=If/	μs)			
Response performance				Within 10%				
Hysteresis Voltage range				Within 100mV				
Output Temp. Coef.				Within ±0.1%/°C				
Residual output Temp. Coef.				Within ±3mV/°C				
Control power supply				±12V±5%				
Consumption current				Within 30mA				
Operating Temp.				-10°C ~ +80°C				
Strage Temp.				-15°C∼+85°C				
Dielectric withstand voltage			250	00V AC 50/60Hz 1min	ute			
Insulation resistance			Not	less than $500 \mathrm{M}\Omega$ 500°	V DC			

Type Rated current [If]	HC-PFG03V4B15	HC-PFG05V4B15	HC-PFG10V4B15	LIO DEGLEVADAE	110 DE000 (4D45	110 DE0051/4D45			
Rated current [If]			110 11 010 1510	HC-PFG15V4B15	HC-PFG20V4B15	HC-PFG25V4B15	HC-PFG30V4B15		
	±3A	±5A	±10A	±15A	±20A	±25A	±30A		
Continuosly flowing DC current	±5A	±8.8A	±8.8A	±23.3A	±23.3A	±23.3A	±23.3A		
Saturation current [Is]	±9A	±15A	±30A	±45A	±60A	±75A	±75A		
Linearity limits	0~±7.5A	0~±12.5A	0~±25A	0~±41.5A	0~±60A	0~±62.5A	0~±62.5A		
Size of primary winding	ϕ 0.6	ϕ 0.8	ϕ 0.8	φ1.3	φ1.3	φ1.3	φ 1.3		
Turns	16	10	5	3	2	2	2		
Rated output [Vh]				±4V±2% (RL=10kΩ))				
Residual output [V0]				Within ±100mV					
Output linearity	Within ±1%								
Response time			With	in 10 μ s (at di/dt=If/	μs)				
Response performance				Within 10%					
Hysteresis Voltage range				Within 100mV					
Output Temp. Coef.				Within ±0.1%/°C					
Residual output Temp. Coef.				Within ±3mV/°C					
Control power supply				±15V±5%					
Consumption current				Within 30mA					
Operating Temp.				-10°C ~ +80°C					
Strage Temp.				-15°C ~ +85°C					
Dielectric withstand voltage			250	00V AC 50/60Hz 1min	ute				
Insulation resistance			Not I	ess than $500 \mathrm{M}\Omega$ 500°	V DC				

*Control power supply specification	= 121						
Туре	HC-PG050V4B12	HC-PG100V4B12	HC-PG150V4B12	HC-PG200V4B12	HC-PG250V4B12	HC-PG300V4B12	
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±675A	
Linearity limits	0~±112.5A	0~±225A	0~±337.5A	0~±450A	0~±500A	0~±675A	
Rated output [Vh]			±4\/	′±1%			
Residual output [V0]			Within	±50mV			
Output linearity			Withir	±1%			
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)					
Response performance	Within 10%						
Hysteresis Voltage range		Within 100mV					
Output Temp. Coef.			Within ±	=0.1%/°C			
Residual output Temp. Coef.	Within ±4mV/°C	Within ±	:3mV/°C	Within ±2mV/°C			
Control power supply			±12°	ñ5%			
Consumption current			Within	30mA			
Operating Temp.			-10°C	~+80°C			
Strage Temp.			−15°C	~+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC			

*Control power supply specification	= 101						
Туре	HC-PG050V4B15	HC-PG100V4B15	HC-PG150V4B15	HC-PG200V4B15	HC-PG250V4B15	HC-PG300V4B15	
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	
Saturation current [Is]	±150A	±300A	±450A	±600A	±600A	±900A	
Linearity limits	0~±150A	0~±300A	0~±450A	0~±500A	0~±500A	0~±700A	
Rated output [Vh]			±4V	′±1%			
Residual output [V0]			Within	±50mV			
Output linearity			Withir	±1%			
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)					
Response performance	Within 10%						
Hysteresis Voltage range			Within	100mV			
Output Temp. Coef.			Within ±	=0.1%/°C			
Residual output Temp. Coef.	Within ±4mV/°C	Within ±	-3mV/°C	Within ±2mV/°C			
Control power supply			±15\	ñ5%			
Consumption current			Within	30mA			
Operating Temp.			−10°C	~+80°C			
Strage Temp.			−15°C <i>~</i>	~+85°C			
Dielectric withstand voltage			2500V AC 50/	/60Hz 1minute			
Insulation resistance			Not less than 50	00MΩ 500V DC			

HC-PJ series

Туре	HC-PJ050V4B12	HC-PJ100V4B12	HC-PJ150V4B12	HC-PJ200V4B12				
Rated current [If]	±50A	±100A	±150A	±200A				
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A				
Linearity limits	0~±112.5A	0~±225A	0~±337.5A	0~±450A				
Rated output [Vh]		±4V	′±1%					
Residual output [V0]		Within :	±50mV					
Output linearity		Withir	±1%					
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)						
Response performance	Within 10%							
Hysteresis Voltage range		Within 100mV						
Output Temp. Coef.		Within ±	=0.1%/°C					
Residual output Temp. Coef.	Within ±4mV/°C	Within ±	:3mV/°C	Within ±2mV/°C				
Control power supply		±12\	/±5%					
Consumption current		Within	30mA					
Operating Temp.		-10°C	~+80°C					
Strage Temp.		−15°C	~+85°C					
Dielectric withstand voltage		2500V AC 50/60Hz 1minute						
Insulation resistance		Not less than 50	00MΩ 500V DC					

HC-PL series

*Control power supply specificatio	11. <u>-</u> 12 V							
Туре	HC-PL05V4B12	HC-PL10V4B12	HC-PL15V4B12	HC-PL20V4B12	HC-PL25V4B12	HC-PL30V4B12		
Rated current [If]	±5A	±10A	±15A	±20A	±25A	±30A		
Continuosly flowing DC current	±8.8A	±8.8A	±13.8A	±13.8A	±23.3A	±23.3A		
Saturation current [Is]	±11.25A	±22.5A	±33.75A	±37.5A	±56.25A	±67.5A		
Linearity limits	0~±10A	0~±20A	0~±30A	0~±30A	0~±56.25A	0~±60A		
Size of primary winding	φ 0.8	φ0.8	φ1.0	φ 1.0	φ1.3	φ 1.3		
Turns	6	3	2	2	1	1		
Rated output [Vh]			±4V±2%	(RL=10kΩ)				
Residual output [V0]			Within ±	±100mV				
Output linearity		Within ±1%						
Response time	Within 10 μ s (at di/dt=If/ μ s)							
Response performance			Within	n 10%				
Hysteresis Voltage range			Within	100mV				
Output Temp. Coef.			Within ±	=0.1%/°C				
Residual output Temp. Coef.			Within ±	2mV/°C				
Control power supply			±12\	ñ5%				
Consumption current			Within	30mA				
Operating Temp.			-10°C	~+80°C				
Strage Temp.			-15°C ~	~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute						
Insulation resistance			Not less than 50	00MΩ 500V DC				

HC-PL series

*Control power supply specification	n: ±15V										
Туре	HC-PL05V4B15	HC-PL10V4B15	HC-PL15V4B15	HC-PL20V4B15	HC-PL25V4B15	HC-PL30V4B15					
Rated current [If]	±5A	±10A	±15A	±20A	±25A	±30A					
Continuosly flowing DC current	±8.8A	±8.8A	±13.8A	±13.8A	±23.3A	±23.3A					
Saturation current [Is]	±12.5A	±25A	±37.5A	±37.5A	±75A	±75A					
Linearity limits	0~±10A	0~±20A	0~±30A	0~±30A	0~±60A	0~±60A					
Size of primary winding	φ 0.8	φ 0.8	φ1.0	φ 1.0	φ1.3	φ 1.3					
Turns	6	3	2	2	1	1					
Rated output [Vh]			±4V±2%	(RL=10kΩ)							
Residual output [V0]			Within =	±100mV							
Output linearity		Within ±1%									
Response time			Within 10 μ s (a	at di/dt=If/μs)							
Response performance			Withi	n 10%							
Hysteresis Voltage range			Within	100mV							
Output Temp. Coef.			Within ±	=0.1%/°C							
Residual output Temp. Coef.			Within ±	2mV/°C							
Control power supply			±15\	V±5%							
Consumption current			Within	30mA							
Operating Temp.			-10°C	~+80°C							
Strage Temp.			−15°C <i>~</i>	~+85°C							
Dielectric withstand voltage			2500V AC 50/	/60Hz 1minute							
Insulation resistance			Not less than 50	00MΩ 500V DC							

HC-PRC series

		11. ±12√						
Туре		HC-PRC03V4B12	HC-PRC05V4B12	HC-PRC15V4B12	HC-PRC20V4B12			
Rated current [If]]	±3A	±5A	±10A	±15A	±20A		
Continuosly flowing DC	current	t ±3.5A ±3.5A ±8.8A ±8.8A						
Saturation current [[Is]	±6.75A	±11.25A	±22.5A	±33.75A	±45A		
Linearity limits		0~±6.75A	0~±11.25A	0~±22.5A	0~±33.75A	0~±37.5A		
Size of primary wind	ling	φ 0.45	φ 0.45	φ 0.9	ϕ 0.9	φ 0.9		
Turns		10	6	3	2	2		
D	+If			V0+4V±1.5% (RL=10kΩ)				
Rated output [Vh]	-If			V0-4V±1.5% (RL=10kΩ)				
Residual output [V	0]			Within ±100mV				
Output linearity		Within ±1%						
Response time		Within 10 μ s (at di/dt=If/ μ s)						
Response performar	nce			Within 10%				
Hysteresis Voltage ra	ange			Within 120mV				
Output Temp. Coe	f.			Within ±0.1%/°C				
Residual output Temp.	Coef.			Within ±3mV/°C				
Control power supp	oly			±12V±5%				
Consumption curre	nt			Within 40mA				
Operating Temp.				-10°C ~ +80°C				
Strage Temp.				−15°C ~ +85°C				
Dielectric withstand vo	oltage			2500V AC 50/60Hz 1minute				
Insulation resistance	се			Not less than $500 \mathrm{M}\Omega$ $500 \mathrm{V}$ DC				

HC-PRC series

Туре		HC-PRC03V4B15	HC-PRC05V4B15	HC-PRC10V4B15	HC-PRC15V4B15	HC-PRC20V4B15		
Rated current [I	f]	±3A	±5A	±10A	±15A	±20A		
Continuosly flowing DC	current	±3.5A ±3.5A ±8.8A ±8.8A						
Saturation current	[Is]	±9A	±15A	±30A	±45A	±45A		
Linearity limits		0~±7.5A	0~±12.5A	0~±25A	0~±37.5A	0~±37.5A		
Size of primary win	ding	φ 0.45	φ 0.45	φ 0.9	ϕ 0.9	φ 0.9		
Turns		10	6	3	2	2		
D	+If			V0+4V±1.5% (RL=10kΩ)				
Rated output [Vh]	-If			V0-4V±1.5% (RL=10kΩ)				
Residual output [\	/0]	Within ±100mV						
Output linearity	,	Within ±1%						
Response time		Within 10 μ s (at di/dt=If/ μ s)						
Response performa	nce			Within 10%				
Hysteresis Voltage r	range			Within 120mV				
Output Temp. Co	ef.			Within ±0.1%/°C				
Residual output Temp	. Coef.			Within ±3mV/°C				
Control power sup	ply			±15V±5%				
Consumption curr	ent			Within 40mA				
Operating Temp).			-10°C ~ +80°C				
Strage Temp.				−15°C ~ +85°C				
Dielectric withstand v	oltage			2500V AC 50/60Hz 1minute				
Insulation resistan	ice			Not less than 500M Ω 500V DC				

T		HC-PRD25V4B12 HC-PRD30V4B12 HC-PRD35V4B12 HC-PRD40V4B12 HC-PRD45V4B12 HC-PRD50V4B12							
Туре									
Rated current [If	-	±25A ±30A ±35A ±40A ±45A ±5							
Continuosly flowing DC	current	±35A	±35A	±35A	±35A	±35A	±35A		
Saturation current	[Is]	±56.25A	±67.5A	±78.75A	±90A	±90A	±90A		
Linearity limits		0~±56.25A	0~±67.5A	0~±75A	0~±75A	0~±75A	0~±75A		
Size of primary wind	ding				x 2		•		
Turns				1	I				
Data da suta ut [\/h]	+If			V0+4∨±1.5	% (RL=10kΩ)				
Rated output [Vh]	-If			V0−4V±1.5	% (RL=10kΩ)				
Residual output [V	/0]		Within ±100mV						
Output linearity		Within ±1%							
Response time			Within 10 μ s (at di/dt=If/ μ s)						
Response performa	nce			Withi	n 10%				
Hysteresis Voltage r	ange			Within	120mV				
Output Temp. Cod	ef.			Within ±	=0.1%/°C				
Residual output Temp	. Coef.			Within ±	=3mV/°C				
Control power sup	ply			±12'	V±5%				
Consumption curre	ent			Within	40mA				
Operating Temp				-10°C	~+80°C				
Strage Temp.				−15°C <i>′</i>	~+85°C				
Dielectric withstand v	oltage			2500V AC 50	/60Hz 1minute				
Insulation resistan	се			Not less than 5	00MΩ 500V DC				

Туре		HC-PRD25V4B15	HC-PRD25V4B15 HC-PRD30V4B15 HC-PRD35V4B15 HC-PRD40V4B15 HC-PRD45V4B15 HC-PRD50V4						
Rated current [I	f]	±25A ±30A ±35A ±40A ±45A							
Continuosly flowing DC	current	±35A	±35A ±35A ±35A ±35A ±35A						
Saturation current	[Is]	±75A	±90A	±90A	±90A	±90A	±90A		
Linearity limits		0~±75A	0~±75A	0~±75A	0~±75A	0~±75A	0~±75A		
Size of primary win	ding			1	x 2				
Turns				1					
Rated output [Vh]	+If			V0+4V±1.59	% (RL=10kΩ)				
Rated output [vii]	−If			$V0-4V \pm 1.59$	% (RL=10k Ω)				
Residual output [\	/0]	Within ±100mV							
Output linearity	,	Within ±1%							
Response time			Within 10 μ s (at di/dt=If/ μ s)						
Response performa	nce			Withi	n 10%				
Hysteresis Voltage	range			Within	120mV				
Output Temp. Co	ef.			Within ±	=0.1%/°C				
Residual output Temp	. Coef.			Within ±	:3mV/°C				
Control power sup	ply			±15\	∨±5%				
Consumption curr	ent			Within	40mA				
Operating Temp).			-10°C	~+80°C				
Strage Temp.				−15°C <i>′</i>	~+85°C				
Dielectric withstand v	oltage			2500V AC 50	/60Hz 1minute				
Insulation resistar	ice			Not less than 5	00MΩ 500V DC				

*Outiful power supply specification							
Туре	HC-PSE05V4B12	HC-PSE10V4B12	HC-PSE15V4B12	HC-PSE20V4B12	HC-PSE25V4B12		
Rated current [If]	±5A	±10A	±15A	±20A	±25A		
Continuosly flowing DC current	±8.8A	±13.8A	±13.8A	±23.3A	±23.3A		
Saturation current [Is]	±11.25A	±22.5A	±33.75A	±45A	±45A		
Linearity limits	0~±11.25A	0~±22.5A	0~±33.75A	0~±37.5A	0~±37.5A		
Size of primary winding	φ 0.8	φ 1.0	φ 1.0	φ1.3	φ1.3		
Turns	6	3	2	2	2		
Rated output [Vh]			±4V±2% (RL=10kΩ)				
Residual output [V0]			Within ±100mV				
Output linearity	Within ±1%						
Response time	Within 10 μ s (at di/dt=If/ μ s)						
Response performance			Within 10%				
Hysteresis Voltage range			Within 100mV				
Output Temp. Coef.			Within $\pm 0.1\%$ °C				
Residual output Temp. Coef.			Within $\pm 6 \text{mV/}^{\circ}\text{C}$				
Control power supply			±12V±5%				
Consumption current			Within 30mA				
Operating Temp.			-10°C~+80°C				
Strage Temp.			-15°C∼+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute						
Insulation resistance			Not less than 500M Ω 500V DC)			

*Control power supply specification	*Control power supply specification: ±12V								
Туре	HC-PSE30V4B12	HC-PSE35V4B12	HC-PSE40V4B12	HC-PSE45V4B12	HC-PSE50V4B12				
Rated current [If]	±30A	±35A	±40A	±45A	±50A				
Continuosly flowing DC current	±23.3A	±35.4A	±35.4A	±35.4A	±35.4A				
Saturation current [Is]	±67.5A	±78.75A	±90A	±90A	±90A				
Linearity limits	0~±67.5A	0~±75A	0~±75A	0~±75A	0~±75A				
Size of primary winding	φ1.3	φ1.6	φ 1.6	φ 1.6	φ 1.6				
Turns	1	1	1	1	1				
Rated output [Vh]			±4V±2% (RL=10kΩ)						
Residual output [V0]			Within ±100mV						
Output linearity	Within ±1%								
Response time			Within 10 μ s (at di/dt=If/ μ s)						
Response performance			Within 10%						
Hysteresis Voltage range			Within 100mV						
Output Temp. Coef.			Within $\pm 0.1\%$ /°C						
Residual output Temp. Coef.			Within $\pm 6 \text{mV/}^{\circ}\text{C}$						
Control power supply			±12V±5%						
Consumption current			Within 30mA						
Operating Temp.			-10°C ~ +80°C						
Strage Temp.			-15°C ~ +85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute								
Insulation resistance			Not less than $500 \mathrm{M}\Omega$ $500 \mathrm{V}$ DC	,					

Туре	HC-PSE05V4B15	HC-PSE10V4B15	HC-PSE15V4B15	HC-PSE20V4B15	HC-PSE25V4B15		
Rated current [If]	±5A	±10A	±15A	±20A	±25A		
Continuosly flowing DC current	±8.8A	±13.8A	±13.8A	±23.3A	±23.3A		
Saturation current [Is]	±15A	±30A	±45A	±45A	±45A		
Linearity limits	0~±12.5A	0~±25A	0~±38A	0~±37.5A	0~±37.5A		
Size of primary winding	φ 0.8	φ1.0	φ 1.0	φ1.3	φ1.3		
Turns	6	3	2	2	2		
Rated output [Vh]			±4V±2% (RL=10kΩ)				
Residual output [V0]			Within ±100mV				
Output linearity	Within ±1%						
Response time			Within 10 μ s (at di/dt=If/ μ s)				
Response performance			Within 10%				
Hysteresis Voltage range			Within 100mV				
Output Temp. Coef.			Within ±0.1%/°C				
Residual output Temp. Coef.			Within ±6mV/°C				
Control power supply			±15V±5%				
Consumption current			Within 30mA				
Operating Temp.			-10°C ~ +80°C				
Strage Temp.			−15°C ~ +85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute						
Insulation resistance	Not less than 500M Ω 500V DC						

*Control power supply specificatio	= 101							
Туре	HC-PSE30V4B15	HC-PSE35V4B15	HC-PSE40V4B15	HC-PSE45V4B15	HC-PSE50V4B15			
Rated current [If]	±30A	±35A	±40A	±45A	±50A			
Continuosly flowing DC current	±23.3A	±35.4A	±35.4A	±35.4A	±35.4A			
Saturation current [Is]	±90A	±90.0A	±90.0A	±90.0A	±90A			
Linearity limits	0~±75A	0~±75A	0~±75A	0~±75A	0~±75A			
Size of primary winding	φ1.3	φ 1.6	φ 1.6	φ1.6	φ 1.6			
Turns	1	1	1	1	1			
Rated output [Vh]			±4V±2% (RL=10kΩ)					
Residual output [V0]		Within ±100mV						
Output linearity	Within ±1%							
Response time			Within 10 μ s (at di/dt=If/ μ s)					
Response performance			Within 10%					
Hysteresis Voltage range			Within 100mV					
Output Temp. Coef.			Within $\pm 0.1\%$ /°C					
Residual output Temp. Coef.			Within $\pm 6 \text{mV/}^{\circ}\text{C}$					
Control power supply			±15V±5%					
Consumption current			Within 30mA					
Operating Temp.	-10°C∼+80°C							
Strage Temp.			-15°C∼+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance			Not less than $500M\Omega$ $500V$ DC	;				

*Control power supply specification	11. <u>-</u> 12 v						
Туре	HC-PSG01V4B12	HC-PSG03V4B12	HC-PSG05V4B12	HC-PSG10V4B12	HC-PSG15V4B12	HC-PSG20V4B12	
Rated current [If]	±1A	±3A	±5A	±10A	±15A	±20A	
Continuosly flowing DC current	±2.2A	±8.8A	±8.8A	±13.8A	±13.8A	±23.3A	
Saturation current [Is]	±2.25A	±6.75A	±11.25A	±22.5A	±33.75A	±45A	
Linearity limits	0~±2.25A	0~±6.75A	0~±11.25A	0~±22.5A	0~±33.75A	0~±37.5A	
Size of primary winding	φ 0.4	φ 0.8	φ 0.8	φ 1.0	φ 1.0	φ 1.3	
Turns	30	10	6	3	2	2	
Rated output [Vh]			±4V±2%	(RL=10kΩ)			
Residual output [V0]			Within :	±100mV			
Output linearity	Within ±1%						
Response time	Within 10 μ s (at di/dt=If/ μ s)						
Response performance			Withi	n 10%			
Hysteresis Voltage range			Within	100mV			
Output Temp. Coef.			Within ±	=0.1%/°C			
Residual output Temp. Coef.			Within ±	-6mV/°C			
Control power supply			±12	V±5%			
Consumption current			Within	30mA			
Operating Temp.			-10°C	~+80°C			
Strage Temp.	−15°C~+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute						
Insulation resistance			Not less than 5	00MΩ 500V DC			

Toolid of power supply specification	*Control power supply specification. ±12V							
Туре	HC-PSG25V4B12	HC-PSG30V4B12	HC-PSG35V4B12	HC-PSG40V4B12	HC-PSG45V4B12	HC-PSG50V4B12		
Rated current [If]	±25A	±30A	±35A	±40A	±45A	±50A		
Continuosly flowing DC current	±33.4A	±33.4A	±33.4A	±33.4A	±33.4A	±54.1A		
Saturation current [Is]	±45A	±67.5A	±78.75A	±90A	±90A	±90A		
Linearity limits	0~±37.5A	0~±67.5A	0~±75A	0~±75A	0~±75A	0~±75A		
Size of primary winding	φ1.1 x 2	φ1.1 x 2	φ1.1 x 2	φ1.1 x 2	φ1.1 x 2	φ 1.4 x 2		
Turns	2	1	1	1	1	1		
Rated output [Vh]			±4V±2%	(RL=10kΩ)				
Residual output [V0]			Within =	±100mV				
Output linearity	Within ±1%							
Response time	Within 10 μ s (at di/dt=If/ μ s)							
Response performance			Withi	n 10%				
Hysteresis Voltage range			Within	100mV				
Output Temp. Coef.			Within ±	=0.1%/°C				
Residual output Temp. Coef.			Within ±	=6mV/°C				
Control power supply			±12\	V±5%				
Consumption current			Within	30mA				
Operating Temp.			−10°C <i><</i>	~+80°C				
Strage Temp.	−15°C~+85°C							
Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance			Not less than 5	00MΩ 500V DC				

*Control power supply specification	11. ± 10 V						
Туре	HC-PSG01V4B15	HC-PSG03V4B15	HC-PSG05V4B15	HC-PSG10V4B15	HC-PSG15V4B15	HC-PSG20V4B15	
Rated current [If]	±1A	±3A	±5A	±10A	±15A	±20A	
Continuosly flowing DC current	±2.2A	±8.8A	±8.8A	±13.8A	±13.8A	±23.3A	
Saturation current [Is]	±3A	±9A	±15A	±30A	±45A	±45A	
Linearity limits	0~±2.5A	0~±7.5A	0~±12.5A	0~±25A	0~±37.5A	0~±37.5A	
Size of primary winding	φ 0.4	φ 0.8	φ 0.8	φ 1.0	φ 1.0	φ 1.3	
Turns	30	10	6	3	2	2	
Rated output [Vh]			±4V±2%	(RL=10kΩ)			
Residual output [V0]			Within =	±100mV			
Output linearity	Within ±1%						
Response time	Within 10 μ s (at di/dt=If/ μ s)						
Response performance			Withi	n 10%			
Hysteresis Voltage range			Within	100mV			
Output Temp. Coef.			Within ±	±0.1%/°C			
Residual output Temp. Coef.			Within ±	=6mV/°C			
Control power supply			±15	V±5%			
Consumption current			Within	30mA			
Operating Temp.			-10°C	~+80°C			
Strage Temp.	−15°C~+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute						
Insulation resistance			Not less than 5	00MΩ 500V DC			

◆Control power supply specification. ±15V							
Туре	HC-PSG25V4B15	HC-PSG30V4B15	HC-PSG35V4B15	HC-PSG40V4B15	HC-PSG45V4B15	HC-PSG50V4B15	
Rated current [If]	±25A	±30A	±35A	±40A	±45A	±50A	
Continuosly flowing DC current	±33.4A	±33.4A	±33.4A	±33.4A	±33.4A	±54.1A	
Saturation current [Is]	±45A	±90A	±90A	±90A	±90A	±90A	
Linearity limits	0~±37.5A	0~±75A	0~±75A	0~±75A	0~±75A	0~±75A	
Size of primary winding	φ1.1 x 2	φ1.1 x 2	φ1.1 x 2	φ1.1 x 2	φ1.1 x 2	φ 1.4 x 2	
Turns	2	1	1	1	1	1	
Rated output [Vh]			±4V±2%	(RL=10kΩ)			
Residual output [V0]			Within :	±100mV			
Output linearity	Within ±1%						
Response time	Within 10 μ s (at di/dt=If/ μ s)						
Response performance			Withi	n 10%			
Hysteresis Voltage range			Within	100mV			
Output Temp. Coef.			Within ±	=0.1%/°C			
Residual output Temp. Coef.			Within ±	-6mV/°C			
Control power supply			±15°	ñ5%			
Consumption current			Within	30mA			
Operating Temp.			-10°C	~+80°C			
Strage Temp.	−15°C~+85°C						
Dielectric withstand voltage	2500V AC 50/60Hz 1minute						
Insulation resistance			Not less than 5	00MΩ 500V DC			

*Control power supply specification: ±12V										
Туре	HC-PT050V4B12	HC-PT100V4B12	HC-PT150V4B12	HC-PT200V4B12	HC-PT250V4B12	HC-PT300V4B12				
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A				
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±600A				
Linearity limits	0~±112.5A	0~±225A	0~±337.5A	0~±400A	0~±400A	0~±400A				
Rated output [Vh]		±4V±1%								
Residual output [V0]		Within ±50mV								
Output linearity		Within ±1%								
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)								
Response performance	Within 10%									
Hysteresis Voltage range			Within	200mV						
Output Temp. Coef.			Within ±	=0.1%/°C						
Residual output Temp. Coef.	Within ±4mV/°C	Within ±	:3mV/°C		Within ±2mV/°C					
Control power supply			±12\	ñ5%						
Consumption current			Within	60mA						
Operating Temp.			−10°C	~+80°C						
Strage Temp.		−15°C~+85°C								
Dielectric withstand voltage			2500V AC 50/	60Hz 1minute						
Insulation resistance			Not less than 50	00MΩ 500V DC						

*Control power supply specification	= 101									
Туре	HC-PT050V4B15	HC-PT100V4B15	HC-PT150V4B15	HC-PT200V4B15	HC-PT250V4B15	HC-PT300V4B15				
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A				
Saturation current [Is]	±150A	±300A	±450A	±600A	±600A	±600A				
Linearity limits	0~±150A	0~±300A	0~±400A	0~±400A	0~±400A	0~±400A				
Rated output [Vh]		±4V±1%								
Residual output [V0]		Within ±50mV								
Output linearity		Within ±1%								
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)								
Response performance	Within 10%									
Hysteresis Voltage range			Within	200mV						
Output Temp. Coef.			Within ±	=0.1%/°C						
Residual output Temp. Coef.	Within ±4mV/°C	Within ±	:3mV/°C		Within ±2mV/°C					
Control power supply			±15°	ñ5%						
Consumption current			Within	60mA						
Operating Temp.			−10°C	~+80°C						
Strage Temp.			−15°C	~+85°C						
Dielectric withstand voltage			2500V AC 50,	∕60Hz 1minute						
Insulation resistance			Not less than 5	00MΩ 500V DC						

HC-PTW series

*Control power supply specification: ±12V										
Туре	HC-PTW050V4B12	HC-PTW100V4B12	HC-PTW150V4B12	HC-PTW200V4B12	HC-PTW250V4B12	HC-PTW300V4B12				
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A				
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±600A				
Linearity limits	0~±112.5A	0~±225A	0~±337.5A	0~±400A	0~±400A	0~±400A				
Rated output [Vh]		±4V±1%								
Residual output [V0]		Within ±50mV								
Output linearity		Within ±1%								
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)								
Response performance	Within 10%									
Hysteresis Voltage range			Within	200mV						
Output Temp. Coef.			Within ±	=0.1%/°C						
Residual output Temp. Coef.	Within ±4mV/°C	Within ±	:3mV/°C		Within ±2mV/°C					
Control power supply			±12\	ñ5%						
Consumption current			Within	40mA						
Operating Temp.			−10°C	~+80°C						
Strage Temp.			−15°C <i>′</i>	~+85°C						
Dielectric withstand voltage			2500V AC 50	60Hz 1minute						
Insulation resistance			Not less than 5	00MΩ 500V DC						

HC-PTW series

*Control power supply specification	= 101									
Туре	HC-PTW050V4B15	HC-PTW100V4B15	HC-PTW150V4B15	HC-PTW200V4B15	HC-PTW250V4B15	HC-PTW300V4B15				
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A				
Saturation current [Is]	±150A	±300A	±450A	±600A	±600A	±600A				
Linearity limits	0~±150A	0~±300A	0~±400A	0~±400A	0~±400A	0~±400A				
Rated output [Vh]		±4V±1%								
Residual output [V0]		Within ±50mV								
Output linearity		Within ±1%								
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)								
Response performance	Within 10%									
Hysteresis Voltage range			Within	200mV						
Output Temp. Coef.			Within ±	=0.1%/°C						
Residual output Temp. Coef.	Within ±4mV/°C	Within ±	:3mV/°C		Within ±2mV/°C					
Control power supply			±15\	∨±5%						
Consumption current			Within	40mA						
Operating Temp.			−10°C	~+80°C						
Strage Temp.		−15°C~+85°C								
Dielectric withstand voltage			2500V AC 50	60Hz 1minute						
Insulation resistance			Not less than 5	00MΩ 500V DC						

HC-PVT series

*Control power supply specificatio	11. ±12V									
Туре	HC-PVT010V4B12	HC-PVT20V4B12	HC-PVT30V4B12	HC-PVT40V4B12	HC-PVT50V4B12					
Rated current [If]	±10A	±20A	±30A	±40A	±50A					
Continuosly flowing DC current	±13.8A	±13.8A	±23.3A	±23.3A	±35.4A					
Saturation current [Is]	±22.5A	±45A	±67.5A	±69A	±112.5A					
Linearity limits	0~±20A	0~±33.3A	0~±50A	0~±50A	0~±100A					
Size of primary winding	φ1.0	φ 1.0	φ 1.3	φ1.3	φ 1.6					
Turns	5	3	2	2	1					
Rated output [Vh]		$\pm 4V \pm 2\%$ (RL=10k Ω) (excluding the residual output)								
Residual output [V0]			Within ±100mV							
Output linearity		Within ±1%								
Response time			Within 10 μ s (at di/dt=If/ μ s)							
Response performance			Within 10%							
Hysteresis Voltage range			Within 100mV							
Output Temp. Coef.			Within $\pm 0.1\%$ °C							
Residual output Temp. Coef.			Within ±3mV/°C							
Control power supply			±12V±5%							
Consumption current			Within 60mA							
Operating Temp.			-10°C ~ +80°C							
Strage Temp.			-15°C ~ +85°C							
Dielectric withstand voltage			2500V AC 50/60Hz 1minute							
Insulation resistance			Not less than $500 \mathrm{M}\Omega$ $500 \mathrm{V}$ DC	; ;						

HC-PVT series

Toolid of power supply specification	*Control power supply specification. ±137									
Туре	HC-PVT010V4B15	HC-PVT20V4B15	HC-PVT30V4B15	HC-PVT40V4B15	HC-PVT50V4B15					
Rated current [If]	±10A	±20A	±30A	±40A	±50A					
Continuosly flowing DC current	±13.8A	±13.8A	±23.3A	±23.3A	±35.4A					
Saturation current [Is]	±27.6A	±46A	±69A	±69A	±138A					
Linearity limits	0~±20A	0~±33.3A	0~±50A	0~±50A	0~±100A					
Size of primary winding	φ 1.0	φ 1.0	φ1.3	φ 1.3	φ 1.6					
Turns	5	3	2	2	1					
Rated output [Vh]		±4V±2% (RL=10kΩ) (excluding the residual output)								
Residual output [V0]			Within ±100mV							
Output linearity		Within ±1%								
Response time			Within 10 μ s (at di/dt=If/ μ s)							
Response performance			Within 10%							
Hysteresis Voltage range			Within 100mV							
Output Temp. Coef.			Within $\pm 0.1\%$ /°C							
Residual output Temp. Coef.			Within ± 3 mV/°C							
Control power supply			±15V±5%							
Consumption current			Within 60mA							
Operating Temp.			-10°C ~ +80°C							
Strage Temp.			-15°C∼+85°C							
Dielectric withstand voltage			2500V AC 50/60Hz 1minute							
Insulation resistance			Not less than $500 \mathrm{M}\Omega$ $500 \mathrm{V}$ DC	}						

*Control power supply specification: ±12V									
Туре	HC-PZ050V4B12	HC-PZ100V4B12	HC-PZ150V4B12	HC-PZ200V4B12	HC-PZ250V4B12	HC-PZ300V4B12	HC-PZ350V4B12	HC-PZ400V4B12	
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A	
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±675A	±787.5A	±900A	
Linearity limits	0~±112.5A	0~±225A	0~±337.5A	0~±450A	0~±562.5A	0~±675A	0~±787.5A	0~±800A	
Rated output [Vh]		$\pm 4V \pm 1\%$ (RL=10k Ω)							
Residual output [V0]		Within ±50mV							
Output linearity				Withir	±1%				
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)							
Response performance		Within 10%							
Hysteresis Voltage range		Within 200mV							
Output Temp. Coef.				Within ±	=0.1%/°C				
Residual output Temp. Coef.	Within ±4mV/°C		Within ±	:2mV/°C			Within ±1mV/°C		
Control power supply				±12\	/±5%				
Consumption current				Within	30mA				
Operating Temp.		-10°C~+80°C							
Strage Temp.		−15°C ~ +85°C							
Dielectric withstand voltage		2500V AC 50/60Hz 1minute							
Insulation resistance				Not less than 50	00MΩ 500V DC				

on: ±12V									
HC-PZ450V4B12	HC-PZ500V4B12	HC-PZ550V4B12	HC-PZ600V4B12	HC-PZ650V4B12	HC-PZ700V4B12	HC-PZ750V4B12	HC-PZ800V4B12		
±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A		
±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A		
0~±800A	0~±800A	0~±800A	0~±800A	0~±800A	0~±800A	0~±800A	0~±800A		
	$\pm 4V \pm 1\%$ (RL=10k Ω)								
			Within	±50mV					
			Withir	ı ±1%					
	Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)								
	Within 10%								
	Within 200mV								
			Within ±	=0.1%/°C					
			Within ±	:1mV/°C					
			±12	ñ5%					
			Within	30mA					
			-10°C	~+80°C					
	-15°C~+85°C								
			2500V AC 50	60Hz 1minute					
			Not less than 5	00MΩ 500V DC					
	HC-PZ450V4B12 ±450A ±1000A	HC-PZ450V4B12 HC-PZ500V4B12 ±450A ±500A ±1000A ±1000A	HC-PZ450V4B12 HC-PZ500V4B12 HC-PZ550V4B12 ±450A ±500A ±550A ±1000A ±1000A 0~±800A 0~±800A 0~±800A	HC-PZ450V4B12 HC-PZ500V4B12 HC-PZ550V4B12 HC-PZ600V4B12 ±450A ±500A ±550A ±600A ±1000A ±1000A ±1000A ±1000A 0~±800A 0~±800A 0~±800A Within : Within 10 μ s (The smaller one on expectation in the smaller one one expectation in the smaller	HC-PZ450V4B12 HC-PZ500V4B12 HC-PZ550V4B12 HC-PZ600V4B12 HC-PZ650V4B12 ±450A ±500A ±550A ±600A ±650A ±1000A ±1000A ±1000A ±1000A 0~±800A 0~±8	HC-PZ450V4B12 HC-PZ500V4B12 HC-PZ550V4B12 HC-PZ600V4B12 HC-PZ650V4B12 HC-PZ700V4B12 ±450A	HC-PZ450V4B12 HC-PZ500V4B12 HC-PZ550V4B12 HC-PZ600V4B12 HC-PZ650V4B12 HC-PZ750V4B12 HC-PZ50V4 HC-PZ		

*Control power supply specification: ±15V									
Туре	HC-PZ050V4B15	HC-PZ100V4B15	HC-PZ150V4B15	HC-PZ200V4B15	HC-PZ250V4B15	HC-PZ300V4B15	HC-PZ350V4B15	HC-PZ400V4B15	
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A	
Saturation current [Is]	±150A	±300A	±450A	±600A	±750A	±900A	±1000A	±1000A	
Linearity limits	0~±150A	0~±300A	0~±450A	0~±600A	0~±700A	0~±700A	0~±800A	0~±800A	
Rated output [Vh]		$\pm 4V \pm 1\% (RL=10k\Omega)$							
Residual output [V0]		Within ±50mV							
Output linearity		Within ±1%							
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)							
Response performance		Within 10%							
Hysteresis Voltage range				Within	200mV				
Output Temp. Coef.				Within ±	=0.1%/°C				
Residual output Temp. Coef.	Within ±4mV/°C		Within ±	:2mV/°C			Within ±1mV/°C		
Control power supply				±15\	/±5%				
Consumption current				Within	30mA				
Operating Temp.				−10°C <i>′</i>	~+80°C				
Strage Temp.		−15°C~+85°C							
Dielectric withstand voltage				2500V AC 50	60Hz 1minute				
Insulation resistance				Not less than 50	00MΩ 500V DC				

*Control power supply specification: ±15V										
Туре	HC-PZ450V4B15	HC-PZ500V4B15	HC-PZ550V4B15	HC-PZ600V4B15	HC-PZ650V4B15	HC-PZ700V4B15	HC-PZ750V4B15	HC-PZ800V4B15		
Rated current [If]	±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A		
Saturation current [Is]	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A		
Linearity limits	0~±800A	0~±800A	0~±800A	0~±800A	0~±800A	0~±800A	0~±800A	0~±800A		
Rated output [Vh]		±4V±1% (RL=10kΩ)								
Residual output [V0]				Within :	±50mV					
Output linearity				Withir	±1%					
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)								
Response performance		Within 10%								
Hysteresis Voltage range		Within 200mV								
Output Temp. Coef.				Within ±	-0.1%/°C					
Residual output Temp. Coef.				Within ±	:1mV/°C					
Control power supply				±15\	/±5%					
Consumption current				Within	30mA					
Operating Temp.				−10°C <i>′</i>	~+80°C					
Strage Temp.		-15°C ~ +85°C								
Dielectric withstand voltage				2500V AC 50	60Hz 1minute					
Insulation resistance				Not less than 50	00MΩ 500V DC					

HC-SL400V4B12 ±400A							
±400A							
±900A							
0~±900A							
1							
Within ±1%							
Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)							
Within 10%							
Within 30mV							
2500V AC 50/60Hz 1minute							

n: ±12V									
HC-SL450V4B12	HC-SL500V4B12	HC-SL550V4B12	HC-SL600V4B12	HC-SL650V4B12	HC-SL700V4B12	HC-SL750V4B12	HC-SL800V4B12		
±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A		
±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A		
0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A		
	$\pm 4V \pm 1\%$ (RL=10k Ω)								
			Within	±30mV					
			Withir	±1%					
	Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)								
Within 10%									
	Within 30mV								
			Within ±	=0.1%/°C					
			Within ±	:1mV/°C					
			±12\	/±5%					
			Within	30mA					
			-10°C	~+80°C					
	−15°C~+85°C								
	2500V AC 50/60Hz 1minute								
			Not less than 50	00MΩ 500V DC					
	±450A ±1000A	±450A ±500A ±1000A ±1000A	±450A ±500A ±550A ±1000A ±1000A ±1000A 0~±900A 0~±900A	±450A ±500A ±550A ±600A ±1000A ±1000A ±1000A 0~±900A 0~±900A 0~±900A Within: Within: Within 10 μs (The smaller one one of the smaller one	$\pm 450A$ $\pm 500A$ $\pm 550A$ $\pm 600A$ $\pm 650A$ $\pm 1000A$ $\pm 1000A$ $\pm 1000A$ $0 \sim \pm 900A$ $0 \sim \pm 1000A$ Within $\pm 1000A$ Within $\pm 1000A$ Within $1000A$ Within	$\pm 450A$ $\pm 500A$ $\pm 550A$ $\pm 600A$ $\pm 650A$ $\pm 700A$ $\pm 1000A$ $\pm 1000A$ $\pm 1000A$ $\pm 1000A$ $0 \sim \pm 900A$ Within $\pm 1\%$ Within 10% Within 10% Within 10% Within 10% Within $\pm 1\%$ Or $0 \sim 10\%$ Within $\pm 1\%$ Wit	### ### #############################		

Contact power capping openinous	ontrol power supply specification: ±15V								
Туре	HC-SL050V4B15	HC-SL100V4B15	HC-SL150V4B15	HC-SL200V4B15	HC-SL250V4B15	HC-SL300V4B15	HC-SL350V4B15	HC-SL400V4B15	
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A	
Saturation current [Is]	±150A	±300A	±450A	±600A	±750A	±900A	±1000A	±1000A	
Linearity limits	0~±150A	0~±300A	0~±450A	0~±450A	0~±700A	0~±700A	0~±900A	0~±900A	
Rated output [Vh]	±4V±1.5% (RL=10kΩ)			-	-4V±1% (RL=10kΩ	2)			
Residual output [V0]	Within ±50mV				Within ±30mV				
Output linearity				Withir	±1%				
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)							
Response performance		Within 10%							
Hysteresis Voltage range				Within	30mV				
Output Temp. Coef.				Within ±	=0.1%/°C				
Residual output Temp. Coef.	Within ±3mV/°C		Within ±	1.5mV/°C			Within ±1mV/°C		
Control power supply				±15\	/±5%				
Consumption current				Within	30mA				
Operating Temp.				−10°C ~	~+80°C				
Strage Temp.				−15°C ~	~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute							
Insulation resistance				Not less than 50	00MΩ 500V DC				

contact ponter capping operational	ntrol power supply specification: ±10V								
Туре	HC-SL450V4B15	HC-SL500V4B15	HC-SL550V4B15	HC-SL600V4B15	HC-SL650V4B15	HC-SL700V4B15	HC-SL750V4B15	HC-SL800V4B15	
Rated current [If]	±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A	
Saturation current [Is]	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	
Linearity limits	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	
Rated output [Vh]				±4V±1%	(RL=10kΩ)				
Residual output [V0]				Within :	±30mV				
Output linearity		Within ±1%							
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)							
Response performance		Within 10%							
Hysteresis Voltage range				Within	30mV				
Output Temp. Coef.				Within ±	-0.1%/°C				
Residual output Temp. Coef.				Within ±	:1mV/°C				
Control power supply				±15\	/±5%				
Consumption current				Within	30mA				
Operating Temp.				−10°C ′	~+80°C				
Strage Temp.				−15°C <i>^</i>	~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute							
Insulation resistance				Not less than 50	00MΩ 500V DC			,	

Туре	HC-SN050V4B12	HC-SN100V4B12	HC-SN150V4B12	HC-SN200V4B12	HC-SN250V4B12	HC-SN300V4B12	HC-SN350V4B12	HC-SN400V4B12
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A
Saturation current [Is]	±113A	±225A	±338A	±450A	±563A	±675A	±788A	±900A
Linearity limits	0~±113A	0~±225A	0~±338A	0~±450A	0~±563A	0~±450A	0~±788A	0~±900A
Rated output [Vh]	±4V±1.5% (RL=10kΩ)			=	±4∨±1% (RL=10k \$	2)	l	
Residual output [V0]	Within ±50mV				Within ±30mV			
Output linearity				Withir	1 ±1%			
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)						
Response performance		Within 10%						
Hysteresis Voltage range				Within	30mV			
Output Temp. Coef.				Within ±	=0.1%/°C			
Residual output Temp. Coef.	Within ±3mV/°C		Within ±	1.5mV/°C			Within ±1mV/°C	
Control power supply				±12\	ñ 5%			
Consumption current				Within	30mA			
Operating Temp.				-10°C ∕	~+80°C			
Strage Temp.				-15°C <i></i>	~+85°C			
Dielectric withstand voltage				2500V AC 50	60Hz 1minute			
Insulation resistance				Not less than 5	00MΩ 500V DC			

on: ±12V							
HC-SN450V4B12	HC-SN500V4B12	HC-SN550V4B12	HC-SN600V4B12	HC-SN650V4B12	HC-SN700V4B12	HC-SN750V4B12	HC-SN800V4B12
±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A
±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A
0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A
			±4V±1%	(RL=10kΩ)			
			Within	±30mV			
	Within ±1%						
	Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)						
	Within 10%						
			Within	30mV			
			Within ±	=0.1%/°C			
			Within ±	:1mV/°C			
			±12\	/±5%			
			Within	30mA			
			-10°C	~+80°C			
			−15°C <i>^</i>	~+85°C			
	2500V AC 50/60Hz 1minute						
			Not less than 50	00MΩ 500V DC			
	HC-SN450V4B12 ±450A ±1000A	HC-SN450V4B12 HC-SN500V4B12 ±450A ±500A ±1000A ±1000A	HC-SN450V4B12 HC-SN500V4B12 HC-SN550V4B12 ±450A ±500A ±550A ±1000A ±1000A ±1000A 0~±900A 0~±900A 0~±900A	HC-SN450V4B12 HC-SN500V4B12 HC-SN550V4B12 HC-SN600V4B12 ±450A ±500A ±550A ±600A ±1000A ±1000A ±1000A ±1000A 0~±900A 0~±900A 0~±900A 0~±900A ### Within : Within : Within 10 μ s (The smaller one on expectation) Within ± ±12V Within ±10°C c c c c c c c c c c c c c c c c c c c	HC-SN450V4B12 HC-SN500V4B12 HC-SN550V4B12 HC-SN600V4B12 HC-SN650V4B12 ±450A ±500A ±550A ±600A ±650A ±1000A ±1000A ±1000A ±1000A 0~±900A 0~±900A 0~±900A 0~±900A 0~±900A Within ±30mV Within ±1% Within 10 μs (The smaller one on either at di/dt=100A Within ±0.1%/°C Within ±1mV/°C ±12V±5% Within 30mA -10°C~+80°C -15°C~+85°C	HC-SN450V4B12	HC-SN450V4B12 HC-SN500V4B12 HC-SN550V4B12 HC-SN600V4B12 HC-SN650V4B12 HC-SN750V4B12 HC-SN750V4 HC-S

HC-SN050V4B15	HC-SN100V4B15	HC-SN150V4B15	HC-SN200V4B15	HC-SN250V4B15	HC-SN300V4B15	HC-SN350V4B15	HC-SN400V4B15
±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A
±150A	±300A	±450A	±600A	±750A	±700A	±1000A	±1000A
0~±150A	0~±300A	0~±450A	0~±450A	0~±700A	0~±450A	0~±900A	0~±900A
$\pm 4V \pm 1.5\%$ (RL=10k Ω)			-1	=4V±1% (RL=10kΩ	!)		
Within ±50mV		Within ±30mV					
			Withir	±1%			
	Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)						
	Within 10%						
			Within	30mV			
			Within ±	=0.1%/°C			
Within ±3mV/°C		Within ±	1.5mV/°C			Within ±1mV/°C	
			±15\	/±5%			
			Within	30mA			
			−10°C ^	~+80°C			
			−15°C <i>~</i>	~+85°C			
			2500V AC 50/	60Hz 1minute			
			Not less than 50	00MΩ 500V DC			
	$\pm 50A$ $\pm 150A$ $0 \sim \pm 150A$ $\pm 4V \pm 1.5\%$ $(RL=10k\Omega)$ Within $\pm 50 \text{mV}$	$\pm 50A$ $\pm 100A$ $\pm 150A$ $\pm 300A$ $0 \sim \pm 150A$ $0 \sim \pm 300A$ $\pm 4V \pm 1.5\%$ (RL=10k Ω) Within ± 50 mV	$\pm 50A$ $\pm 100A$ $\pm 150A$ $\pm 150A$ $\pm 150A$ $\pm 450A$ $0 \sim \pm 150A$ $0 \sim \pm 300A$ $0 \sim \pm 450A$ $\pm 4V \pm 1.5\%$ (RL=10kΩ) Within ± 50 mV	±50A ±100A ±150A ±200A ±150A ±300A ±450A ±600A 0~±150A 0~±300A 0~±450A 0~±450A ±4V±1.5% (RL=10kΩ) Within ±50mV Within 10 μs (The smaller one one of the smaller one of	$\pm 50A$ $\pm 100A$ $\pm 150A$ $\pm 200A$ $\pm 250A$ $\pm 150A$ $\pm 150A$ $\pm 300A$ $\pm 450A$ $\pm 600A$ $\pm 750A$ $0 \sim \pm 150A$ $0 \sim \pm 300A$ $0 \sim \pm 450A$ $0 \sim \pm 450A$ $0 \sim \pm 700A$ $\pm 4V \pm 1.5\%$ (RL=10kΩ) Within ± 50 mV Within ± 50 mV Within $\pm 1\%$ Within 10μ s (The smaller one on either at di/dt=100A Within 10% Within 10	$\pm 50A$ $\pm 100A$ $\pm 150A$ $\pm 200A$ $\pm 250A$ $\pm 300A$ $\pm 150A$ $\pm 150A$ $\pm 250A$ $\pm 300A$ $\pm 150A$ $\pm 250A$ \pm	## ±50A

contact ponter capping operational	ntrol power supply specification: ±10V								
Туре	HC-SN450V4B15	HC-SN500V4B15	HC-SN550V4B15	HC-SN600V4B15	HC-SN650V4B15	HC-SN700V4B15	HC-SN750V4B15	HC-SN800V4B15	
Rated current [If]	±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A	
Saturation current [Is]	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	
Linearity limits	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	
Rated output [Vh]				±4V±1%	(RL=10kΩ)				
Residual output [V0]				Within :	±30mV				
Output linearity		Within ±1%							
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)							
Response performance		Within 10%							
Hysteresis Voltage range				Within	30mV				
Output Temp. Coef.				Within ±	-0.1%/°C				
Residual output Temp. Coef.				Within ±	:1mV/°C				
Control power supply				±15\	/±5%				
Consumption current				Within	30mA				
Operating Temp.				−10°C ′	~+80°C				
Strage Temp.				−15°C <i>′</i>	~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute							
Insulation resistance				Not less than 50	00MΩ 500V DC	,		,	

Туре		HC-TF050V4B12	HC-TF100V4B12	HC-TF200V4B12	HC-TF300V4B12	HC-TF400V4B12	HC-TF500V4B12	HC-TF600V4B12H		
Rated current [I	f]	±50A	±100A	±200A	±300A	±400A	±500A	±600A		
Saturation current	[Is]	±112.5A	±225A	±450A	±675A	±900A	±900A	±1350A		
Linearity limits [I	[f]	0~±100A	0~±200A	0~±400A	0~±600A	0~±650A	0~±650A	0~±1200A		
D	+If			V0+4V±1%	(RL=10kΩ)			V0+4V±2% (RL=10kΩ)		
Rated output [Vh]	-If			V0−4V±1%	(RL=10kΩ)			V0-4V±2% (RL=10kΩ)		
Residual output [\	v 0]	Within ±70mV		Within ±50mV						
Output linearity	/		Within ±1%							
Response time			Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)							
Response performa	ance				Within 10%					
Hysteresis Voltage ı	range				Within 30mV					
Output Temp. Co	ef.				Within ±0.1%/°C					
Residual output Temp	o. Coef.	Within ±3mV/°C	Within ±1.5mV/°C			Within ±1mV/°C				
Control power sup	pply				±12V±5%					
Consumption curr	ent				Within 30mA					
Operating Temp).				-10°C ~ +80°C					
Strage Temp.					-15°C ~ +85°C					
Dielectric withstand v	/oltage		2500V AC 50/60Hz 1minute							
Insulation resistar	nce			Not	ess than $500 \mathrm{M}\Omega$ 500°	/ DC				

		—								
Туре		HC-TF700V4B12H	HC-TF800V4B12H	HC-TF900V4B12H	HC-TFE10V4B12H	HC-TFE12V4B12H	HC-TFE14V4B12H	HC-TFE16V4B12H		
Rated current [I	f]	±700A	±800A	±900A	±1000A	±1200A	±1400A	±1600A		
Saturation current	[Is]	±1575A	±1800A	±1800A	±1800A	±1800A	±1800A	±1800A		
Linearity limits [If]	0~±1400A	0~±1600A	0~±1600A	0~±1600A	0~±1600A	0~±1600A	0~±1600A		
D	+If			\	/0+4V±2% (RL=10kΩ)				
Rated output [Vh]	-If			\	/0-4V±2% (RL=10kΩ)				
Residual output [\	V0]		Within ±50mV							
Output linearity	/		Within ±1%							
Response time		Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)								
Response performa	ance	Within 10 μ s (The smaller one on either at di/ dt = 100A/ μ s or if/ μ s.)								
Hysteresis Voltage	range				Within 30mV		0A/μs or If/μs.)			
Output Temp. Co	ef.				Within ±0.1%/°C					
Residual output Temp	o. Coef.				Within ±1mV/°C					
Control power sup	oply				±12V±5%					
Consumption curr	ent				Within 30mA					
Operating Temp) .				-10°C ~ +80°C					
Strage Temp.					-15°C ~ +85°C					
Dielectric withstand v	voltage									
Insulation resistar	nce	Not less than 500M Ω 500V DC								

*Control power supply sp	occincatio	11. ±10√								
Туре		HC-TF050V4B15	HC-TF100V4B15	HC-TF200V4B15	HC-TF300V4B15	HC-TF400V4B15	HC-TF500V4B15	HC-TF600V4B15H		
Rated current [I	f]	±50A	±100A	±200A	±300A	±400A	±500A	±600A		
Saturation current	[Is]	±150A	±300A	±600A	±900A	±900A	±900A	±1800A		
Linearity limits []	If]	0~±112.5A	0~±225A	0~±450A	0~±650A	0~±650A	0~±650A	0~±1600A		
	+If			V0+4∨±1%	(RL=10kΩ)			V0+4V±2% (RL=10kΩ)		
Rated output [Vh]	-If			V0−4V±1%	(RL=10kΩ)			V0-4V±2% (RL=10kΩ)		
Residual output [\	V0]	Within ±70mV			Within :	±50mV				
Output linearity	/		Within ±1%							
Response time			Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)							
Response performa	ance				Within 10%					
Hysteresis Voltage ı	range				Within 30mV					
Output Temp. Co	ef.				Within ±0.1%/°C					
Residual output Temp	o. Coef.	Within ±3mV/°C	Within ±1.5mV/°C			Within ±1mV/°C				
Control power sup	oply				±15V±5%					
Consumption curr	ent				Within 30mA					
Operating Temp	D.				-10°C ~ +80°C					
Strage Temp.					−15°C ~ +85°C					
Dielectric withstand v	voltage		2500V AC 50/60Hz 1minute							
Insulation resistar	nce			Not I	ess than $500 \mathrm{M}\Omega$ 500°	/ DC				

Туре		HC-TF700V4B15H	HC-TF800V4B15H	HC-TF900V4B15H	HC-TFE10V4B15H	HC-TFE12V4B15H	HC-TFE14V4B15H	HC-TFE16V4B15H		
Rated current [I	f]	±700A	±800A	±900A	±1000A	±1200A	±1400A	±1600A		
Saturation current	[Is]	±1800A	±1800A	±1800A	±1800A	±1800A	±1800A	±1800A		
Linearity limits [If]	0~±1600A	0~±1600A	0~±1600A	0~±1600A	0~±1600A	0~±1600A	0~±1600A		
	+ I f			\	/0+4V±2% (RL=10kΩ)				
Rated output [Vh]	-If			\	/0-4V±2% (RL=10kΩ)				
Residual output [\	V0]		Within ±50mV							
Output linearity	/		Within ±1%							
Response time		Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)								
Response performa	ance	Within 10 μ s (The smaller one on either at di/ dt $-$ 100A/ μ s or if/ μ s.)								
Hysteresis Voltage	range				Within 30mV					
Output Temp. Co	ef.				Within ±0.1%/°C					
Residual output Temp	o. Coef.				Within ±1mV/°C					
Control power sup	oply				±15V±5%					
Consumption curr	ent				Within 30mA					
Operating Temp) .				-10°C ~ +80°C					
Strage Temp.					-15°C ~ +85°C					
Dielectric withstand v	voltage			250	00V AC 50/60Hz 1min	ute				
Insulation resistar	nce	Not less than $500 M\Omega$ $500 V$ DC								

Туре	HC-TN050V4B12	HC-TN100V4B12	HC-TN150V4B12	HC-TN200V4B12	HC-TN250V4B12	HC-TN300V4B12	HC-TN350V4B12	HC-TN400V4B12
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±675A	±787.5A	±900A
Linearity limits	0~±112.5A	0~±225A	0~±337.5A	0~±450A	0~±562.5A	0~±675A	0~±787.5A	0~±900A
Rated output [Vh]	±4V±1.5% (RL=10kΩ)			=	±4∨±1% (RL=10k \$	2)		
Residual output [V0]	Within ±50mV		Within ±30mV					
Output linearity				Withir	1 ±1%			
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)						
Response performance		Within 10%						
Hysteresis Voltage range				Within	30mV			
Output Temp. Coef.				Within ±	=0.1%/°C			
Residual output Temp. Coef.	Within ±3mV/°C		Within ±	1.5mV/°C			Within ±1mV/℃	
Control power supply				±12	ñ5%			
Consumption current				Within	30mA			
Operating Temp.				-10°C	~+80°C			
Strage Temp.				-15°C <i></i>	~+85°C			
Dielectric withstand voltage				2500V AC 50	60Hz 1minute			
Insulation resistance				Not less than 5	00MΩ 500V DC			

contact ponter capping operational	ntrol power supply specification: ±12V								
Туре	HC-TN450V4B12	HC-TN500V4B12	HC-TN550V4B12	HC-TN600V4B12	HC-TN650V4B12	HC-TN700V4B12	HC-TN750V4B12	HC-TN800V4B12	
Rated current [If]	±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A	
Saturation current [Is]	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	
Linearity limits	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	0~±900A	
Rated output [Vh]				±4V±1%	(RL=10kΩ)				
Residual output [V0]				Within :	±30mV				
Output linearity		Within ±1%							
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)							
Response performance		Within 10%							
Hysteresis Voltage range				Within	30mV				
Output Temp. Coef.				Within ±	:0.1%/°C				
Residual output Temp. Coef.				Within ±	:1mV/°C				
Control power supply				±12\	/±5%				
Consumption current				Within	30mA				
Operating Temp.				−10°C ^	~+80°C				
Strage Temp.				−15°C ^	~+85°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute							
Insulation resistance				Not less than 50	00MΩ 500V DC	,			

*Control power supply specification. ±100											
Туре	HC-TN050V4B15	HC-TN100V4B15	HC-TN150V4B15	HC-TN200V4B15	HC-TN250V4B15	HC-TN300V4B15	HC-TN350V4B15	HC-TN400V4B15			
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A			
Saturation current [Is]	±150A	±300A	±450A	±600A	±750A	±900A	±1000A	±1000A			
Linearity limits	0~±150A	0~±300A	0~±300A 0~±450A 0~±450A 0~±700A 0~±700A 0~±900A 0~±90								
Rated output [Vh]	±4V±1.5% (RL=10kΩ)										
Residual output [V0]	Within ±50mV				Within ±30mV						
Output linearity		Within ±1%									
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)									
Response performance				Withi	n 10%						
Hysteresis Voltage range				Within	30mV						
Output Temp. Coef.				Within ±	=0.1%/°C						
Residual output Temp. Coef.	Within ±3mV/°C		Within ±	1.5mV/°C			Within ±1mV/℃				
Control power supply				±15\	ñ5%						
Consumption current				Within	30mA						
Operating Temp.		-10°C∼+80°C									
Strage Temp.		-15°C ~ +85°C									
Dielectric withstand voltage		2500V AC 50/60Hz 1minute									
Insulation resistance				Not less than 5	00MΩ 500V DC						
•											

Control power supply specification. 2 100											
Туре	HC-TN450V4B15	HC-TN500V4B15	HC-TN550V4B15	HC-TN600V4B15	HC-TN650V4B15	HC-TN700V4B15	HC-TN750V4B15	HC-TN800V4B15			
Rated current [If]	±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A			
Saturation current [Is]	±1000A	±1000A ±1000A ±1000A ±1000A ±1000A ±1000A									
Linearity limits	0~±900A	x±900A 0~±900A 0~±900A 0~±900A 0~±900A 0~±900A 0~±9									
Rated output [Vh]		$\pm 4V \pm 1\%$ (RL=10k Ω)									
Residual output [V0]		Within ±30mV									
Output linearity		Within ±1%									
Response time			Within 10 μ s (T	he smaller one on e	either at di/dt=100A	$1/\mu$ s or If/ μ s.)					
Response performance		Within 10%									
Hysteresis Voltage range				Within	30mV						
Output Temp. Coef.				Within ±	=0.1%/°C						
Residual output Temp. Coef.				Within ±	:1mV/°C						
Control power supply				±15\	/±5%						
Consumption current				Within	30mA						
Operating Temp.		-10°C∼+80°C									
Strage Temp.		-15°C~+85°C									
Dielectric withstand voltage		2500V AC 50/60Hz 1minute									
Insulation resistance				Not less than 50	00MΩ 500V DC						

contact ponts, cappily operations	**Control power supply specification. ±12v									
Туре	HC-TS050V4B12	HC-TS100V4B12	HC-TS150V4B12	HC-TS200V4B12	HC-TS250V4B12	HC-TS300V4B12	HC-TS350V4B12	HC-TS400V4B12		
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A		
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±675A	±787.5A	±900A		
Linearity limits	0~±112.5A	0~±225A	0~±225A 0~±337.5A 0~±450A 0~±562.5A 0~±675A 0~±787.5A 0~±900							
Rated output [Vh]	±4V±1.5% (RL=10kΩ)									
Residual output [V0]	Within ±50mV				Within ±30mV					
Output linearity		Within ±1%								
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)								
Response performance				Withi	n 10%					
Hysteresis Voltage range				Within	30mV					
Output Temp. Coef.				Within ±	=0.1%/°C					
Residual output Temp. Coef.	Within ±3mV/°C		Within ±	1.5mV/°C			Within ±1mV/℃			
Control power supply				±12	V±5%					
Consumption current				Within	30mA					
Operating Temp.		-10°C~+80°C								
Strage Temp.		-15°C~+85°C								
Dielectric withstand voltage		2500V AC 50/60Hz 1minute								
Insulation resistance				Not less than 5	00MΩ 500V DC					
	-									

Control power supply specification. ± 12 v											
Туре	HC-TS450V4B12	HC-TS500V4B12	HC-TS550V4B12	HC-TS600V4B12	HC-TS650V4B12	HC-TS700V4B12	HC-TS750V4B12	HC-TS800V4B12			
Rated current [If]	±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A			
Saturation current [Is]	±1000A	±1000A ±1000A ±1000A ±1000A ±1000A ±1000A									
Linearity limits	0~±900A	+900A 0~±900A 0~±900A 0~±900A 0~±900A 0~±900A 0~±900A									
Rated output [Vh]		$\pm 4V \pm 1\%$ (RL=10k Ω)									
Residual output [V0]		Within ±30mV									
Output linearity		Within ±1%									
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)									
Response performance		Within 10%									
Hysteresis Voltage range				Within	30mV						
Output Temp. Coef.				Within ±	=0.1%/°C						
Residual output Temp. Coef.				Within ±	:1mV/°C						
Control power supply				±12\	/±5%						
Consumption current				Within	30mA						
Operating Temp.		-10°C~+80°C									
Strage Temp.		−15°C~+85°C									
Dielectric withstand voltage		2500V AC 50/60Hz 1minute									
Insulation resistance				Not less than 50	00MΩ 500V DC						

*Control power supply specification. 2 10 v									
Туре	HC-TS050V4B15	HC-TS100V4B15	HC-TS150V4B15	HC-TS200V4B15	HC-TS250V4B15	HC-TS300V4B15	HC-TS350V4B15	HC-TS400V4B15	
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A	±350A	±400A	
Saturation current [Is]	±150A	±300A	±450A	±600A	±750A	±900A	±1000A	±1000A	
Linearity limits	0~±150A	0~±300A 0~±450A 0~±450A 0~±700A 0~±700A 0~±900A 0~±900A							
Rated output [Vh]	±4V±1.5% (RL=10kΩ)								
Residual output [V0]	Within ±50mV				Within ±30mV				
Output linearity		Within ±1%							
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)							
Response performance				Withi	n 10%				
Hysteresis Voltage range				Within	30mV				
Output Temp. Coef.				Within ±	:0.1%/°C				
Residual output Temp. Coef.	Within ±3mV/°C		Within ±	1.5mV/°C			Within ±1mV/°C		
Control power supply				±15\	/±5%				
Consumption current				Within	30mA				
Operating Temp.		-10°C~+80°C							
Strage Temp.		-15°C∼+85°C							
Dielectric withstand voltage		2500V AC 50/60Hz 1minute							
Insulation resistance				Not less than 50	00MΩ 500V DC				

Control power supply specification: ±15V										
HC-TS450V4B15	HC-TS500V4B15	HC-TS550V4B15	HC-TS600V4B15	HC-TS650V4B15	HC-TS700V4B15	HC-TS750V4B15	HC-TS800V4B15			
±450A	±500A	±550A	±600A	±650A	±700A	±750A	±800A			
±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A	±1000A			
0~±900A	±900A 0~±900A 0~±900A 0~±900A 0~±900A 0~±900A 0~±9									
	$\pm 4V \pm 1\% (RL=10k\Omega)$									
	Within ±30mV									
	Within ±1%									
	Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)									
	Within 10%									
			Within	30mV						
			Within ±	=0.1%/°C						
			Within ±	:1mV/°C						
			±15\	ñ5%						
			Within	30mA						
	-10°C∼+80°C									
	-15°C∼+85°C									
	2500V AC 50/60Hz 1minute									
			Not less than 5	00MΩ 500V DC						
	HC-TS450V4B15 ±450A ±1000A	HC-TS450V4B15 HC-TS500V4B15 ±450A ±500A ±1000A ±1000A	HC-TS450V4B15 HC-TS500V4B15 HC-TS550V4B15 ±450A ±500A ±550A ±1000A ±1000A 0~±900A 0~±900A 0~±900A	HC-TS450V4B15 HC-TS500V4B15 HC-TS600V4B15 ±450A ±500A ±550A ±600A ±1000A ±1000A ±1000A ±1000A 0~±900A 0~±900A 0~±900A Within : Within 10 μ s (The smaller one on expectation of the smaller one one expectati	HC-TS450V4B15 HC-TS500V4B15 HC-TS550V4B15 HC-TS650V4B15 HC-TS650V4B15 ±450A ±500A ±550A ±600A ±650A ±1000A ±1000A ±1000A ±1000A 0~±900A 0~±900A 0~±900A 0~±900A Within ±30mV Within ±1% Within 10 μs (The smaller one on either at di/dt=100A Within ±0.1%/°C Within ±0.1%/°C Within ±1mV/°C ±15V±5% Within 30mA -10°C~+80°C -15°C~+85°C	HC-TS450V4B15	HC-TS450V4B15 HC-TS500V4B15 HC-TS550V4B15 HC-TS650V4B15 HC-TS650V4B15 HC-TS750V4B15 HC-TS750V4B15 ±450A			

HC-U series

Control power supply specification: ±12V										
Туре	HC-U050V4B12	HC-U100V4B12	HC-U150V4B12	HC-U200V4B12	HC-U250V4B12	HC-U300V4B12				
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A				
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±675A				
Linearity limits	0~±112.5A	0~±225A	0~±337.5A	0~±450A	0~±500A	0~±600A				
Rated output [Vh]	±4V±1.5%		±4V±1%							
Residual output [V0]	Within ±50mV	ithin ±50mV Within ±30mV								
Output linearity			Withir	±1%						
Response time		Within 10	0μ s (The smaller one on ϵ	either at di/dt=100A/ μ s d	or If/ μ s.)					
Response performance			Withi	n 10%						
Hysteresis Voltage range			Within	30mV						
Output Temp. Coef.			Within ±	0.08%/°C						
Residual output Temp. Coef.	Within ±2.5mV/°C			Within ±1.5mV/°C						
Control power supply			±12\	ñ5%						
Consumption current			Within	30mA						
Operating Temp.			-10°C	~+80°C						
Strage Temp.		-15°C~+85°C								
Dielectric withstand voltage		2500V AC 50/60Hz 1minute								
Insulation resistance			Not less than 5	00MΩ 500V DC						

HC-U series

Control power supply specification: ±10V										
Туре	HC-U050V4B15	HC-U100V4B15	HC-U150V4B15	HC-U200V4B15	HC-U250V4B15	HC-U300V4B15				
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A				
Saturation current [Is]	±150A	±300A	±450A	±600A	±600A	±700A				
Linearity limits	0~±150A	0~±300A	0~±300A 0~±450A 0~±500A 0~±500A 0~±600A							
Rated output [Vh]	±4V±1.5%		±4V±1%							
Residual output [V0]	Within ±50mV	Vithin ±50mV Within ±30mV								
Output linearity			Withir	±1%						
Response time		Within 10	0μ s (The smaller one on ϵ	either at di/dt=100A/ μ s d	or If/ μ s.)					
Response performance			Withi	n 10%						
Hysteresis Voltage range			Within	30mV						
Output Temp. Coef.			Within ±	0.08%/°C						
Residual output Temp. Coef.	Within ±2.5mV/°C			Within ±1.5mV/°C						
Control power supply			±15\	ñ5%						
Consumption current			Within	30mA						
Operating Temp.			−10°C	~+80°C						
Strage Temp.		-15°C~+85°C								
Dielectric withstand voltage		2500V AC 50/60Hz 1minute								
Insulation resistance			Not less than 50	00MΩ 500V DC						

	ontrol power supply specification. ±12v									
Туре		HC-VT050V4B12	HC-VT100V4B12	HC-VT150V4B12	HC-VT200V4B12	HC-VT250V4B12	HC-VT300V4B12			
Rated current [I	[f]	±50A	±100A	±150A	±200A	±250A	±300A			
Saturation current	[Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±600A			
Linearity limits [If]	0~±112.5A	0~±225A	0~±337.5A	0~±400A	0~±400A	0~±400A			
D	+If			V0+4V±1%	(RL=10kΩ)					
Rated output [Vh]	-If			V0−4V±1%	(RL=10kΩ)					
Residual output [V0]	Within ±70mV	in ±70mV Within ±50mV							
Output linearity	у		Within ±1%							
Response time	;		Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)							
Response performa	ance			Withi	n 10%					
Hysteresis Voltage	range			Within	200mV					
Output Temp. Co	oef.			Within ±	=0.1%/°C					
Residual output Temp	o. Coef.	Within ±4mV/°C	Within ±	:3mV/°C		Within ±2mV/°C				
Control power sup	oply			±12\	∨±5%					
Consumption curr	rent			Within	60mA					
Operating Temp	o.			-10°C	~+80°C					
Strage Temp.			-15°C~+85°C							
Dielectric withstand	voltage		2500V AC 50/60Hz 1minute							
Insulation resistar	nce			Not less than 5	00MΩ 500V DC					
Consumption curr Operating Temp Strage Temp. Dielectric withstand	o. voltage			Within -10°C15°C- 2500V AC 50	60mA ~+80°C ~+85°C /60Hz 1minute					

	ontrol power supply specification. ±15V									
Туре		HC-VT050V4B15	HC-VT100V4B15	HC-VT150V4B15	HC-VT200V4B15	HC-VT250V4B15	HC-VT300V4B15			
Rated current [I	f]	±50A	±100A	±150A	±200A	±250A	±300A			
Saturation current	[Is]	±150A	±300A	±450A	±600A	±600A	±600A			
Linearity limits [If]	0~±150A	0~±300A	0~±400A	0~±400A	0~±400A	0~±400A			
D	+If			V0+4∨±1%	(RL=10kΩ)					
Rated output [Vh]	-If			V0−4V±1%	(RL=10kΩ)					
Residual output [V0]	Within ±70mV	in ±70mV Within ±50mV							
Output linearity	У		Within ±1%							
Response time	;		Within 10 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)							
Response performa	ance			Withi	n 10%					
Hysteresis Voltage	range			Within	200mV					
Output Temp. Co	ef.			Within ±	=0.1%/°C					
Residual output Temp	o. Coef.	Within ±4mV/°C	Within ±	:3mV/°C		Within ±2mV/°C				
Control power sup	oply			±15°	V±5%					
Consumption curr	rent			Within	60mA					
Operating Temp	о.			-10°C	~+80°C					
Strage Temp.			-15°C~+85°C							
Dielectric withstand	voltage		2500V AC 50/60Hz 1minute							
Insulation resistar	nce			Not less than 5	00MΩ 500V DC					

HC-W series

Control power supply specification: ±12V										
HC-W050V4B12	HC-W100V4B12	HC-W150V4B12	HC-W200V4B12	HC-W250V4B12	HC-W300V4B12					
±50A	±100A	±150A	±200A	±250A	±300A					
±112.5A	±225A	±337.5A	±450A	±562.5A	±675A					
0~±112.5A	0~±225A	0~±225A 0~±337.5A 0~±450A 0~±500A 0~±600A								
±4V±1.5%		±4V±1%								
Within ±50mV	Vithin ±50mV Within ±30mV									
	Within ±1%									
	Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)									
	Within 10%									
		Within	30mV							
		Within ±	:0.08%/°C							
Within ±2.5mV/°C			Within ±1.5mV/°C							
		±12	∨±5%							
		Within	30mA							
		-10°C	~+80°C							
	−15°C~+85°C									
	2500V AC 50/60Hz 1minute									
		Not less than 5	00MΩ 500V DC							
	$\pm 50A$ $\pm 112.5A$ $0 \sim \pm 112.5A$ $\pm 4V \pm 1.5\%$ Within ± 50 mV	HC−W050V4B12 ±50A ±100A ±112.5A 0~±112.5A 0~±225A 44V±1.5% Within ±50mV Within 10	HC-W050V4B12 HC-W100V4B12 HC-W150V4B12 ±50A ±100A ±150A ±112.5A ±225A ±337.5A 0~±112.5A 0~±225A 0~±337.5A ±4V±1.5% Within ±50mV Within 10 μ s (The smaller one on example of the smaller one one of the smaller one of the	HC-W050V4B12	HC-W050V4B12					

HC-W series

Control power supply specification: ±15V										
HC-W050V4B15	HC-W100V4B15	HC-W150V4B15	HC-W200V4B15	HC-W250V4B15	HC-W300V4B15					
±50A	±100A	±150A	±200A	±250A	±300A					
±150A	±300A	±450A	±600A	±600A	±700A					
0~±150A	0~±300A	0~±300A 0~±450A 0~±500A 0~±500A 0~±600								
±4V±1.5%	±4∨±1%									
Within ±50mV	Within ±50mV Within ±30mV									
	Within ±1%									
	Within 10	μ s (The smaller one on ϵ	either at di/dt=100A/ μ s o	or If/ μ s.)						
	Within 10%									
		Within	30mV							
		Within ±	:0.08%/°C							
Within ±2.5mV/°C			Within ±1.5mV/°C							
		±15	V±5%							
		Within	30mA							
		-10°C	~+80°C							
	-15°C∼+85°C									
	2500V AC 50/60Hz 1minute									
		Not less than 5	00MΩ 500V DC							
	## HC-W050V4B15 ## 50A ## 150A 0~ ± 150A ## 4V ± 1.5% Within ± 50mV	HC−W050V4B15 ±50A ±100A ±150A ±300A 0~±150A 0~±300A Within ±50mV Within 10	HC-W050V4B15 HC-W100V4B15 HC-W150V4B15 ±50A ±150A ±300A ±450A 0~±150A 0~±300A 0~±450A Within ±50mV Within 10 μs (The smaller one one of the smaller one of the smalle	HC-W050V4B15	HC-W050V4B15					

HC-WT series

*Control power supply specification: ±12V

**Control power supply specification						
Туре	HC-WT050V4B12	HC-WT100V4B12	HC-WT150V4B12	HC-WT200V4B12	HC-WT250V4B12	HC-WT300V4B12
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A
Saturation current [Is]	±112.5A	±225A	±337.5A	±450A	±562.5A	±675A
Linearity limits	0~±112.5A	0~±225A	0~±337.5A	0~±450A	0~±500A	0~±600A
Rated output [Vh]	±4V±1.5%			±4V±1%		
Residual output [V0]	Within ±50mV	±50mV Within ±30mV				
Output linearity	Within ±1%					
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)				
Response performance	Within 10%					
Hysteresis Voltage range	Within 30mV					
Output Temp. Coef.			Within ±	0.08%/°C		
Residual output Temp. Coef.	Within ± 2.5 mV/°C Within ± 1.5 mV/°C					
Control power supply			±12\	/±5%		
Consumption current		Within 30mA				
Operating Temp.	-10°C~+80°C					
Strage Temp.	-15°C∼+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 500M Ω 500V DC				

HC-WT series

*Control power supply specification: ±15V

*Gontrol power supply specification			T			1
Туре	HC-WT050V4B15	HC-WT100V4B15	HC-WT150V4B15	HC-WT200V4B15	HC-WT250V4B15	HC-WT300V4B15
Rated current [If]	±50A	±100A	±150A	±200A	±250A	±300A
Saturation current [Is]	±150A	±300A	±450A	±600A	±600A	±700A
Linearity limits	0~±150A	0~±300A	0~±450A	0~±500A	0~±500A	0~±600A
Rated output [Vh]	±4V±1.5%			±4V±1%		,
Residual output [V0]	Within ±50mV	Within ±50mV Within ±30mV				
Output linearity	Within ±1%					
Response time		Within 10 μ s (The smaller one on either at di/dt=100A/ μ s or If/ μ s.)				
Response performance	Within 10%					
Hysteresis Voltage range	Within 30mV					
Output Temp. Coef.		Within ±0.08%/°C				
Residual output Temp. Coef.	Within $\pm 2.5 \text{mV/}^{\circ}\text{C}$ Within $\pm 1.5 \text{mV/}^{\circ}\text{C}$					
Control power supply			±15	∨±5%		
Consumption current			Within	30mA		
Operating Temp.	-10°C~+80°C					
Strage Temp.	-15°C∼+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC		



*Control power supply specification: ±12V < Voltage output type >				
Туре	HS-K300V4B12	HS-K400V4B12	HS-K500V4B12	
Rated current [If]	±300A	±400A	±500A	
Continuosly flowing DC current	±600A	±800A	±1000A	
Saturation current [Is]	±620A	±620A	±720A	
Linearity limits	0~±600A	0~±600A	0~±700A	
Rated output [Vh]		±4V±1% (RL=10kΩ)		
Residual output [V0]		Within ±20mV		
Output linearity	Within ±0.5%			
Second coil resistance	Approx	c. 31 Ω	Approx. 42Ω	
Response time	Within 1 μ s (at di/dt=100A/ μ s)			
Response performance	Within 20%			
Hysteresis Voltage range		Within 20mV		
Output Temp. Coef.		Within ±0.02%/°C		
Residual output Temp. Coef.		Within ±1mV/°C		
Control power supply		±12V±5%		
Consumption current	20mA+(Input current/4000)		20mA+(Input current/5000)	
Operating Temp.	-10°C~+80°C			
Strage Temp.	-15°C~+85°C			
Dielectric withstand voltage	2500V AC 50/60Hz 1minute			
Insulation resistance		Not less than $500 M\Omega$ $500 V$ DC		

*Control power supply specification: ± 12V < Current output type >				
Туре	HS-K300A0075B12	HS-K400A010B12	HS-K500A010B12	
Rated current [If]	±300A	±400A	±500A	
Continuosly flowing DC current	±600A	±600A	±1000A	
Saturation current [Is]	±620A	±620A	±720A	
Linearity limits	0~±600A (RL=1~3Ω)	0~±600A (RL=1~3Ω)	0~±700A (RL=1Ω)	
Rated output [Ih]	±75mA±1%	±100n	nA±1%	
Residual output [I0]		Within ±0.2mA		
Output linearity	Within ±0.5%			
Second coil resistance	Approx	Approx. 42Ω		
Response time	Within 1 μ s (at di/dt=100A/ μ s)			
Response performance	Within 20%			
Hysteresis Voltage range	Within 0.2mA			
Output Temp. Coef.	Within ±0.02%/°C			
Residual output Temp. Coef.		Within ±0.01mA/°C		
Control power supply		±12V±5%		
Consumption current	20mA+(Input o	20mA+(Input current/5000)		
Operating Temp.	-10°C~+80°C			
Strage Temp.	−15°C ~ +85°C			
Dielectric withstand voltage	2500V AC 50/60Hz 1minute			
Insulation resistance		Not less than $500 M\Omega$ $500 VDC$		



*Control power supply specification: ±12V < Voltage output type >				
Туре	HS-P050V4B12 HS-P100V4B12			
Rated current [If]	±50A	±100A		
Continuosly flowing DC current	±50A	±100A		
Saturation current [Is]	±80A	±120A		
Linearity limits	0~±80A	0~±120A		
Rated output [Vh]	±4V±1%	(RL=10kΩ)		
Residual output [V0]	Within	±20mV		
Output linearity	Within ±0.5%			
Second coil resistance	Approx. 100Ω			
Response time	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)			
Response performance	Within 10%			
Hysteresis Voltage range	Within 30mV			
Output Temp. Coef.	Within ±0.02%/°C			
Residual output Temp. Coef.	Within ±	=1mV/°C		
Control power supply	±12V±5%			
Consumption current	20mA+(Input current/2000)			
Operating Temp.	-10°C~+80°C			
Strage Temp.	-15°C~+85°C			
Dielectric withstand voltage	2500V AC 50/60Hz 1minute			
Insulation resistance	Not less than 5	00MΩ 500V DC		



Control power supply specification: ±12V < Current output type >				
Туре	HS-P050A005B12	HS-P100A005B12		
Rated current [If]	±50A	±100A		
Continuosly flowing DC current	±50A	±100A		
Saturation current [Is]	±100A	±130A		
Linearity limits	0~±100A (RL=10Ω)	0~±130A (RL=1~5Ω)		
Rated output [Ih]	±50m	nA±1%		
Residual output [I0]	Within :	±0.2mA		
Output linearity	Within ±0.5%			
Second coil resistance	Approx. 51 Ω	Approx. 100 Ω		
Response time	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)			
Response performance	Within 10%			
Hysteresis Voltage range	Within	0.2mA		
Output Temp. Coef.	Within ±	:0.02%/°C		
Residual output Temp. Coef.	Within ±0	0.01mA/°C		
Control power supply	±12	V±5%		
Consumption current	20mA+(Input current/1000)	20mA+(Input current/2000)		
Operating Temp.	-10°C	~+80°C		
Strage Temp.	-15°C~+85°C			
Dielectric withstand voltage	2500V AC 50/60Hz 1minute			
Insulation resistance	Not less than 5	00MΩ 500V DC		

HS-PHA series

*Control power supply specification: $\pm 12V$

Toolid of power supply specification	11. = 12.4					
Туре	HS-PHA05V4B12	HS-PHA10V4B12	HS-PHA15V4B12	HS-PHA20V4B12	HS-PHA25V4B12	HS-PHA30V4B12
Rated current [If]	±5A	±10A	±15A	±20A	±25A	±30A
Continuosly flowing DC current	±3.6A	±7.2A	±10.8A	±14.4A	±18A	±23.3A
Saturation current [Is]	±8A	±15A	±25A	±35A	±44A	±50A
Linearity limits	0~±5A	0~±10A	0~±20A	0~±30A	0~±37.5A	0~±45A
Size of primary winding	φ 0.8	φ 1.0	φ1.3	φ1.3	φ 1.3	φ1.3
Turns	6	3	2	1	1	1
Rated output [Vh]			±4V±1.5%	(RL=10kΩ)		
Residual output [V0]			Within	±30mV		
Output linearity	Within ±0.5%					
Response time		Within 3μ s (at di/dt=If/ μ s)				
Response performance		Within 20%				
Hysteresis Voltage range			Within	50mV		
Output Temp. Coef.			Within ±	:0.04%/°C		
Residual output Temp. Coef.			Within ±	=1mV/°C		
Control power supply			±12	V±5%		
Consumption current			20mA+(Input cu	urrent x N)/1270		
Operating Temp.	-10°C∼+80°C					
Strage Temp.	−15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC		

HS-PHA series

*Control power supply specification: ±15V

Toolid of power supply specification	= 101					
Туре	HS-PHA05V4B15	HS-PHA10V4B15	HS-PHA15V4B15	HS-PHA20V4B15	HS-PHA25V4B15	HS-PHA30V4B15
Rated current [If]	±5A	±10A	±15A	±20A	±25A	±30A
Continuosly flowing DC current	±3.6A	±7.2A	±10.8A	±14.4A	±18A	±23.3A
Saturation current [Is]	±12.5A	±25A	±37A	±50A	±62.5A	±75A
Linearity limits	0~±10A	0~±20A	0~±30A	0~±40A	0~±50A	0~±60A
Size of primary winding	φ0.8	φ 1.0	φ1.3	φ1.3	φ1.3	φ1.3
Turns	6	3	2	1	1	1
Rated output [Vh]			±4V±1.5%	(RL=10kΩ)		
Residual output [V0]			Within	±30mV		
Output linearity		Within ±0.5%				
Response time	Within 3μ s (at di/dt=If/ μ s)					
Response performance		Within 20%				
Hysteresis Voltage range			Within	50mV		
Output Temp. Coef.		Within ±0.04%/°C				
Residual output Temp. Coef.			Within ±	=1mV/°C		
Control power supply	±15V±5%					
Consumption current			20mA+(Input cu	urrent x N)/1270		
Operating Temp.	-10°C∼+80°C					
Strage Temp.	−15°C~+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance			Not less than 5	00MΩ 500V DC		

HS-PHB series

*Control power supply specification: ±12V

Toolid of power supply specification	711. ± 12 V					
Туре	HS-PHB35V4B12	HS-PHB40V4B12	HS-PHB45V4B12	HS-PHB50V4B12		
Rated current [If]	±35A	±40A	±45A	±50A		
Continuosly flowing DC current	±25.2A	±28.8A	±32.4A	±36A		
Saturation current [Is]	±80A	±90A	±100A	±110A		
Linearity limits	0~±70A	0~±80A	0~±90A	0~±100A		
Size of primary winding	φ1.3	□1.2 x 2	□1.2 x 2	□1.2 x 2		
Turns	1	1	1	1		
Rated output [Vh]		±4V±1.5%	(RL=10kΩ)			
Residual output [V0]		Within	±30mV			
Output linearity	Within ±0.5%					
Response time	Within 3μ s (at di/dt=If/ μ s)					
Response performance	Within 20%					
Hysteresis Voltage range		Within 50mV				
Output Temp. Coef.	Within ±0.04%/°C					
Residual output Temp. Coef.		Within ±1mV/°C				
Control power supply	±12V±5%					
Consumption current	20mA+(Input current x N)/1270					
Operating Temp.	-10°C∼+80°C					
Strage Temp.	-15°C∼+85°C					
Dielectric withstand voltage	2500V AC 50/60Hz 1minute					
Insulation resistance		Not less than 5	00MΩ 500V DC			

HS-PHB series

*Control power supply specification: ±15V

Toolition power supply specification	MI. ± 10 ¥				
Туре	HS-PHB35V4B15	HS-PHB40V4B15	HS-PHB45V4B15	HS-PHB50V4B15	
Rated current [If]	±35A	±40A	±45A	±50A	
Continuosly flowing DC current	±25.2A	±28.8A	±32.4A	±36A	
Saturation current [Is]	±87.5A	±100A	±112.5A	±125A	
Linearity limits	0~±70A	0~±80A	0~±90A	0~±100A	
Size of primary winding	φ1.3	□1.2 x 2	□1.2 x 2	□1.2 x 2	
Turns	1	1	1	1	
Rated output [Vh]		±4V±1.5%	(RL=10kΩ)		
Residual output [V0]		Within	±30mV		
Output linearity	Within ±0.5%				
Response time	Within 3μ s (at di/dt=If/ μ s)				
Response performance	Within 20%				
Hysteresis Voltage range	Within 50mV				
Output Temp. Coef.	Within ±0.04%/°C				
Residual output Temp. Coef.	Within ±1mV/°C				
Control power supply	±15V±5%				
Consumption current	20mA+(Input current x N)/1270				
Operating Temp.	-10°C∼+80°C				
Strage Temp.	-15°C∼+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 5	00MΩ 500V DC		

Control power supply specification: ±12V < Voltage output type >						
Туре		HS-PKD050V4B12	HS-PKD100V4B12S	HS-PKD150V4B12S		
Rated current [I	[f]	±50A	±100A	±150A		
Continuosly flowing DC	current	±50A	±72A	±108A		
Saturation current	[Is]	±125A	±210A	±270A		
Linearity limits	3	0~±100A	0~±200A	0~±250A		
Rated output [Vh]	+If		$V0+4V\pm1\%$ (RL=10k Ω)			
Nated output [vii]	-If		$V0-4V\pm1\%$ (RL= $10k\Omega$)			
Residual output [\	V0]					
Output linearity	У					
Second coil resista	ance	Approx. 47 Ω		Approx. 63 Ω		
Response time)	Within 1 μ	or If/ μ s.)			
Response performa	ance		Within 10%			
Hysteresis Voltage	range		Within 20mV			
Output Temp. Co	ef.		Within ±0.01%/℃			
Residual output Temp	o. Coef.		Within ±0.8mV/°C			
Control power sup	oply		±12V±5%			
Consumption curr	rent	20mA+(Input o	current/2500)	20mA+(Input current/3200)		
Operating Temp	0.		-10°C ~ +80°C			
Strage Temp.		−15°C~+85°C				
Dielectric withstand	voltage		2500V AC 50/60Hz 1minute			
Insulation resistar	nce		Not less than $500 M\Omega$ $500 VDC$			

Control power supply specification: ±12V < Current output type >					
Туре		HS-PKD050A0025B12	HS-PKD100A005B12	HS-PKD150A005B12	
Rated current [I	[f]	±50A	±100A	±150A	
Continuosly flowing DC	current	±50A	±72A	±72A	
Saturation current	Saturation current [Is] ±100A		±100A	±150A	
Linearity limits		0~±100A (RL=90Ω~130Ω)	0~±100A (RL=90Ω~130Ω)	0~±150A (RL=60Ω~100Ω)	
Rated output [Ih]	+If	I0+25mA±1%	I0+50mA±1%	I0+50mA±1%	
Rated output [in]	-If	I0-25mA±1%	I0-50mA±1%	$I0-50$ mA ± 1 %	
Residual output [I0] Within ±0.2mA			Within ±0.2mA		
Output linearity	/		Within $\pm 0.5\%$		
Second coil resistance		Approx.	Approx. 38 Ω		
Response time		Within 1 μ	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s		
Response performa	ance		Within 10%		
Hysteresis Voltage	range		Within 0.2mA		
Output Temp. Co	ef.		Within ±0.01%/℃		
Residual output Temp	o. Coef.		Within ±0.01mA/°C		
Control power sup	oply		±12V±5%		
Consumption curr	ent	20mA+(Input ci	urrent/2000)	20mA+(Input current/3000)	
Operating Temp	o.		-10°C~+80°C		
Strage Temp.					
Dielectric withstand	voltage				
Insulation resistar	nce		Not less than $500 M\Omega$ $500 VDC$		

*Control power supply sp	pecificatio	n: ±10V		voltage output type.		
Туре		HS-PKD050V4B15	HS-PKD100V4B15S	HS-PKD150V4B15S		
Rated current [If]		±50A	±100A	±150A		
Continuosly flowing DC current		±50A	±72A	±108A		
Saturation current [Is]		±125A	±250A	±375A		
Linearity limits		0~±100A	0~±200A	0~±300A		
Rated output [Vh]	+If		V0+4V±1% (RL=10kΩ)			
Nated output [vii]	-If	V0-4V±1% (RL=10kΩ)				
Residual output [\	V0]		Within ±20mV			
Output linearity Within ±0.5%		Within ±0.5%				
Second coil resistance		Approx	Approx. 47 Ω			
Response time		Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)				
Response performance			Within 10%			
Hysteresis Voltage	range	Within 20mV				
Output Temp. Co	ef.		Within ±0.01%/°C			
Residual output Temp	o. Coef.	Within ±0.8mV/°C				
Control power sup	oply		±15V±5%			
Consumption curr	rent	20mA+(Input o	current/2500)	20mA+(Input current/3200)		
Operating Temp.		-10°C∼+80°C				
Strage Temp.		−15°C ~ +85°C				
Dielectric withstand	voltage		2500V AC 50/60Hz 1minute			
Insulation resistar	nce		Not less than 500M Ω 500V DC			

*Control power supply sp	pecificatio	11. ±15V		Current output type	
Туре	Type HS-PKD050A0025B15		HS-PKD100A005B15	HS-PKD150A005B15	
Rated current [If]		±50A	±100A	±150A	
Continuosly flowing DC current		±50A	±72A	±72A	
Saturation current [Is]		±100A	±150A	±150A	
Linearity limits	;	0~±100A (RL=100Ω~180Ω)	0~±150A (RL=120Ω)	0~±200A (RL=120Ω)	
Dated autout [II-]	+If	I0+25mA±1%	I0+50mA±1%	I0+50mA±1%	
Rated output [Ih]	-If	I0-25mA±1%	I0−50mA±1%	I0−50mA±1%	
Residual output [[0]		Within ±0.2mA		
Output linearity		Within ±0.5%			
Second coil resistance		Approx. 38 Ω Approx. 58 9		Approx. 58 Ω	
Response time		Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)			
Response performance		Within 10%			
Hysteresis Voltage	range	Within 0.2mA			
Output Temp. Co	ef.	Within ±0.01%/°C			
Residual output Temp	o. Coef.	Within ±0.01mA/°C			
Control power sup	pply		±15V±5%		
Consumption curr	ent	20mA+(Input cu	20mA+(Input current/2000)		
Operating Temp.		-10°C∼+80°C			
Strage Temp.		-15°C∼+85°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute			
Insulation resistar	nce	Not less than 500M Ω 500V DC			

*Control power supply specification: ±12V

Туре		HS-PKF050A0025B12	HS-PKF100A005B12	
Rated current [If]		±50A	±100A	
Continuosly flowing DC	current	±50A	±71A	
Saturation current	[Is]	±100A	±160A	
Linearity limits		$0\sim\pm100A~(RL=45\Omega)$	0~±160A (RL=1Ω)	
Rated output [Ih]	+If	I0+25mA±0.5%	I0+50mA±0.5%	
Rated output [in]	-If	$I0-25mA \pm 0.5\%$	I0-50mA±0.5%	
Residual output [[0]	Within :	±0.2mA	
Output linearity	/	Within	±0.15%	
Second coil resista	ance	Approx. 82 Ω		
Response time		Within 0.5 μ s (at di/dt=If/ μ s)		
Response performance		Within 10%		
Hysteresis Voltage	range	Within 0.15mA		
Output Temp. Co	ef.	Within ±0.01%/°C		
Residual output Temp	o. Coef.	Within ±0.005mA/°C		
Control power sup	pply	±12V±5%		
Consumption curr	ent	20mA+(Input current/2000)		
Operating Temp.		−25°C~+85°C		
Strage Temp.		-40°C ~ +90°C		
Dielectric withstand voltage		2500V AC 50/60Hz 1minute		
Insulation resistar	nce	Not less than 500M Ω 500V DC		
insulation resistance		NOL less than or		

HS-PTF series

*Control power supply specification: ±12V				
Туре	e HS-PTF050V4B12		HS-PTF100V4B12	
Rated current [If]		±50A	±100A	
Continuosly flowing DC	current	±50A	±100A	
Saturation current	[Is]	±110A	±180A	
Linearity limits	;	0~±110A	0~±180A	
Rated output [Vh]	+If	V0+4V±1%	(RL=10kΩ)	
riacoa oacpae [vii]	− I f	$V0-4V\pm1\%$ (RL=10k Ω)		
Residual output [\	V0]	Within =	±20mV	
Output linearity	y	Within ±0.5%		
Second coil resista	ance	Approx. 120 Ω		
Response time	,	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)		
Response performa	ance	Within 10%		
Hysteresis Voltage	range	Within 20mV		
Output Temp. Co	ef.	Within ±0.02%/°C		
Residual output Temp	o. Coef.	Within ±1mV/°C		
Control power sup	oply	±15V±5%		
Consumption curr	rent	60mA+(Input current/4000)		
Operating Temp.		-10°C~+80°C		
Strage Temp.		−15°C~+85°C		
Dielectric withstand v	voltage	2500V AC 50/60Hz 1minute		
Insulation resistar	nce	Not less than 50	00MΩ 500V DC	

HS-PTF series

Control power supply specification: ±12V			< Current output type >	
Туре		HS-PTF050A00125B12	HS-PTF100A0025B12	
Rated current [If]		±50A	±100A	
Continuosly flowing DC current		±50A	±100A	
Saturation current [Is]		±110A	±200A	
Linearity limits		$0\sim\pm110A~(RL=10~\Omega\sim130~\Omega)$	0~±200A (RL=1~20Ω)	
Rated output [Ih]	+If	I0+12.5mA±1%	I0+25mA±1%	
Nated output [in]	-If	I0−12.5mA±1%	I0−25mA±1%	
Residual output [[10]	Within :	±0.2mA	
Output linearity	/	Within ±0.5%		
Second coil resistance		Approx. 120 Ω		
Response time		Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)		
Response performance		Within 10%		
Hysteresis Voltage	range	Within 0.2mA		
Output Temp. Co	ef.	Within ±0.02%/°C		
Residual output Temp	o. Coef.	Within ±0.01mA/°C		
Control power sup	ply	±12V±5%		
Consumption curr	ent	60mA+(Input current/4000)		
Operating Temp.		-10°C~+80°C		
Strage Temp.		−15°C~+85°C		
Dielectric withstand	voltage	2500V AC 50/60Hz 1minute		
Insulation resistar	nce	Not less than 500MΩ 500V DC		



Туре	HS-U050V4B12	HS-U100V4B12	HS-U200V4B12	HS-U250V4B12	
Rated current [If]	±50A	±100A	±200A	±250A	
Continuosly flowing DC current	±50A	±100A	±200A	±250A	
Saturation current [Is]	±100A	±200A	±250A	±250A	
Linearity limits	0~±100A	0~±200A	0~±250A	0~±250A	
Rated output [Vh]		±4V±1%	(RL=10kΩ)		
Residual output [V0]		Within	±20mV		
Output linearity	Within ±0.5%				
Second coil resistance	Approx. 25Ω Approx. 50Ω				
Response time	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)				
Response performance	Within 10%				
Hysteresis Voltage range	Within 20mV				
Output Temp. Coef.	Within ±0.02%/°C				
Residual output Temp. Coef.	Within ±1mV/°C				
Control power supply	±12V±5%				
Consumption current	20mA+(Input current/1000) 20mA+(Input current/2000)				
Operating Temp.	-10°C~+80°C				
Strage Temp.	-15°C~+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance	Not less than 500M Ω 500V DC				

*Control power supply specification	Control power supply specification: ± 12V < Gurrent output type >				
Туре	HS-U050A005B12	HS-U100A005B12	HS-U200A010B12	HS-U250A0125B12	
Rated current [If]	±50A	±100A	±200A	±250A	
Continuosly flowing DC current	±50A	±100A	±200A	±250A	
Saturation current [Is]	±150A	±250A	±250A	±250A	
Linearity limits	0~±120A (RL=40Ω)	0~±250A (RL=10Ω)	0~±250A (RL=10Ω)	0~±250A (RL=10Ω)	
Rated output [Ih]	±50m	nA±1%	±100mA±1%	±125mA±1%	
Residual output [I0]		Within	±0.2mA		
Output linearity	Within ±0.5%				
Second coil resistance	Approx. 25Ω Approx. 50Ω				
Response time	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)				
Response performance	Within 10%				
Hysteresis Voltage range	Within 0.2mA				
Output Temp. Coef.	Within ±0.02%/°C				
Residual output Temp. Coef.	Within ±0.01mA/°C				
Control power supply	±12V±5%				
Consumption current	20mA+(Input current/1000) 20mA+(Input current/2000)				
Operating Temp.	-10°C~+80°C				
Strage Temp.	-15°C~+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance	Not less than 500M Ω 500V DC				



*Control power supply specification	Control power supply specification: ±15V < Voltage output type >				
Туре	HS-U050V4B15	HS-U100V4B15	HS-U200V4B15	HS-U300V4B15	
Rated current [If]	±50A	±100A	±200A	±300A	
Continuosly flowing DC current	±50A	±100A	±150A	±150A	
Saturation current [Is]	±150A	±300A	±360A	±370A	
Linearity limits	0~±150A	0~±300A	0~±360A	0~±370A	
Rated output [Vh]		±4V±1%	(RL=10kΩ)		
Residual output [V0]		Within	±20mV		
Output linearity	Within ±0.5%				
Second coil resistance	Approx. 25Ω Approx. 50Ω				
Response time	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)				
Response performance	Within 10%				
Hysteresis Voltage range	Within 20mV				
Output Temp. Coef.	Within ±0.02%/°C				
Residual output Temp. Coef.	Within ±1mV/°C				
Control power supply	±15V±5%				
Consumption current	20mA+(Input current/1000) 20mA+(Input current/2000)				
Operating Temp.	-10°C~+80°C				
Strage Temp.	-15°C~+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 5	00MΩ 500V DC		

*Control power supply specification	Control power supply specification: ±15V Current output type >				
Туре	HS-U050A005B15 HS-U100A005B15 HS-U200A010B15 HS-U300A015B15				
Rated current [If]	±50A	±100A	±200A	±300A	
Continuosly flowing DC current	±50A	±100A	±200A	±300A	
Saturation current [Is]	±150A	±300A	±300A	±300A	
Linearity limits	0~±150A (RL=50Ω)	0~±300A (RL=20Ω)	0~±300A (RL=20Ω)	0~±300A (RL=20Ω)	
Rated output [Ih]	±50m	nA±1%	±100mA±1%	±150mA±1%	
Residual output [I0]	Within ±0.2mA				
Output linearity	Within ±0.5%				
Second coil resistance	Approx. 25Ω Approx. 50Ω				
Response time	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)				
Response performance	Within 10%				
Hysteresis Voltage range	Within 0.2mA				
Output Temp. Coef.	Within ±0.02%/°C				
Residual output Temp. Coef.	Within ±0.01mA/°C				
Control power supply	±15V±5%				
Consumption current	20mA+(Input current/1000) 20mA+(Input current/2000)				
Operating Temp.	-10°C~+80°C				
Strage Temp.	-15°C~+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance	Not less than 500M Ω 500V DC				



*Control power supply specification: ±12V

*Control power supply specification: ±12V					
Туре	HS-UD300V4B12	HS-UD400V4B12	HS-UD500V4B12		
Rated current [If]	±300A	±400A	±500A		
Continuosly flowing DC current	±450A	±450A	±450A		
Saturation current [Is]	±675A	±870A	±870A		
Linearity limits	0~±600A	0~±800A	0~±800A		
Rated output [Vh]		±4V±1% (RL=10kΩ)			
Residual output [V0]		Within ±20mV			
Output linearity	Within ±0.5%				
Second coil resistance	Approx. 16.8 Ω				
Response time	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)				
Response performance	Within 10%				
Hysteresis Voltage range	Within 20mV				
Output Temp. Coef.	Within ±0.02%/℃				
Residual output Temp. Coef.		Within ± 1 mV/°C			
Control power supply	±12V±5%				
Consumption current	20mA+(Input current/2000)				
Operating Temp.	-10°C~+80°C				
Strage Temp.	−15°C~+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than $500 \mathrm{M}\Omega$ $500 \mathrm{V}\mathrm{DC}$			



Control power supply specification: ±12V < Current output type>				
Туре	HS-UD300A015B12 HS-UD400A020B12 HS-UD500A025B12			
Rated current [If]	±300A	±400A	±500A	
Continuosly flowing DC current	±450A	±450A	±450A	
Saturation current [Is]	±675A	±750A	±850A	
Linearity limits	$0\sim\pm600A (RL=1 \Omega \sim 5\Omega)$	0~±700A (RL=1Ω~3Ω)	0~±800A (RL=1Ω)	
Rated output [Ih]	±150mA±1%	±200mA±1%	±250mA±1%	
Residual output [I0]		Within ±0.2mA		
Output linearity	Within ±0.5%			
Second coil resistance	Approx. 16.8 Ω			
Response time	Within 1 μ s (The smaller one on either at di/dt = 100A/ μ s or If/ μ s.)			
Response performance	Within 10%			
Hysteresis Voltage range	Within 0.2mA			
Output Temp. Coef.	Within ±0.02%/°C			
Residual output Temp. Coef.	Within ±0.01mA/°C			
Control power supply	±12V±5%			
Consumption current	20mA+(Input current/2000)			
Operating Temp.	-10°C~+80°C			
Strage Temp.	−15°C~+85°C			
Dielectric withstand voltage	2500V AC 50/60Hz 1minute			
Insulation resistance		Not less than $500 \mathrm{M}\Omega$ $500 \mathrm{V}\mathrm{DC}$		



*Control power supply sp	Control power supply specification: ±12V < voltage output type >					
Туре		HS-UF100V4B12	HS-UF300V4B12			
Rated current [If]		±100A	±200A	±300A		
Continuosly flowing DC current		±100A	±200A	±230A		
Saturation current	[Is]	±225A	±450A	±520A		
Linearity limits	5	0~±200A	0~±400A	0~±470A		
Rated output [Vh]	+If		V0+4V±1% (RL=10kΩ)			
Nated output [vii]	-If	V0-4V±1% (RL=10kΩ)				
Residual output [V0]		Within ±20mV			
Output linearity	у		Within ±0.5%			
Second coil resistance		Approx. 48 Ω				
Response time)	Within 1 μ s (at di/dt=100A/ μ s)				
Response performance		Within 10%				
Hysteresis Voltage	range	Within 20mV				
Output Temp. Co	oef.		Within ±0.02%/°C			
Residual output Temp	o. Coef.		Within ±1mV/°C			
Control power sup	pply		±12V±5%			
Consumption curr	rent	20mA+(Input current/4000)				
Operating Temp	Operating Temp. −10°C ~+80°C					
Strage Temp.	np. −15°C~+85°C					
Dielectric withstand	voltage		2500V AC 50/60Hz 1minute			
Insulation resistar	nce		Not less than $500 \mathrm{M}\Omega$ $500 \mathrm{V}\mathrm{DC}$			



*Control power supply sp	pecificatio	n: ±12V		< Current output type >
Туре		HS-UF100A0025B12	HS-UF200A005B12	HS-UF300A0075B12
Rated current [If]		±100A	±200A	±300A
Continuosly flowing DC current		±100A	±200A	±230A
Saturation current [Is]		±225A	±450A	±520A
Linearity limits		$0\sim\pm200A~(RL=1~\Omega\sim80~\Omega)$	0~±400A (RL=1Ω~15Ω)	0~±470A (RL=1Ω~8Ω)
Rated output [Ih]	+ I f	I0+25mA±1%	I0+50mA±1%	I0+75mA±1%
	-If	I0−25mA±1%	I0-50mA±1%	I0−75mA±1%
Residual output [I0]		Within ±0.2mA		
Output linearity		Within $\pm 0.5\%$		
Second coil resistance		Approx. 48 Ω		
Response time		Within 1 μ s (at di/dt=100A/ μ s)		
Response performance		Within 10%		
Hysteresis Voltage range		Within 0.2mA		
Output Temp. Coef.		Within ±0.02%/°C		
Residual output Temp. Coef.		Within ±0.01mA/°C		
Control power supply		±12V±5%		
Consumption current		20mA+(Input current/4000)		
Operating Temp.		−10°C~+80°C		
Strage Temp.		−15°C~+85°C		
Dielectric withstand voltage		2500V AC 50/60Hz 1minute		
Insulation resistance		Not less than 500M Ω 500V DC		