

HC-PDG



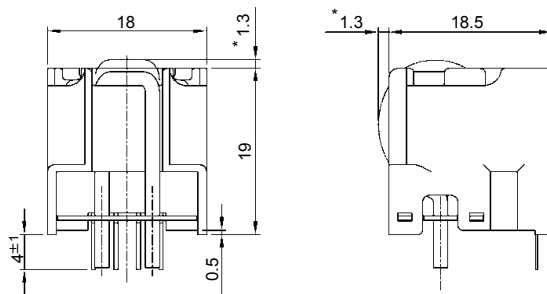
- Rated current 5A ~ 50A
- Superior noise-resistance
- Superior saturation characteristics
- Reduced height compact design
- Single-power supplies also available
- ±12 Volt version also available

Applications

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

Dimensions

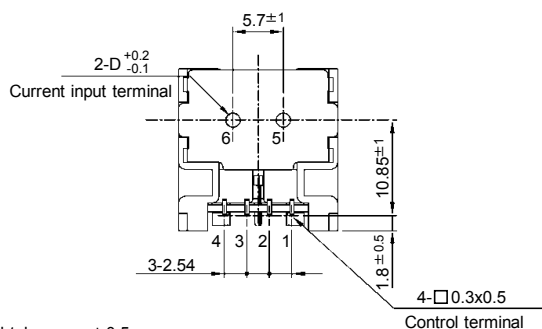
(mm)



Dimensions of Current Input Terminals

Size of primary winding	Width D
Φ0.8	Φ0.8
Φ1.0	Φ1.0
Φ1.1	Φ1.1
Φ1.3	Φ1.3
Φ1.6	Φ1.6

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



General tolerance: ±0.5

- Terminal No.
- 1 - (-) terminal
 - 2 - GND
 - 3 - (+) terminal
 - 4 - Output
 - 5 - (+) input
 - 6 - (-) input

Weight : 9g

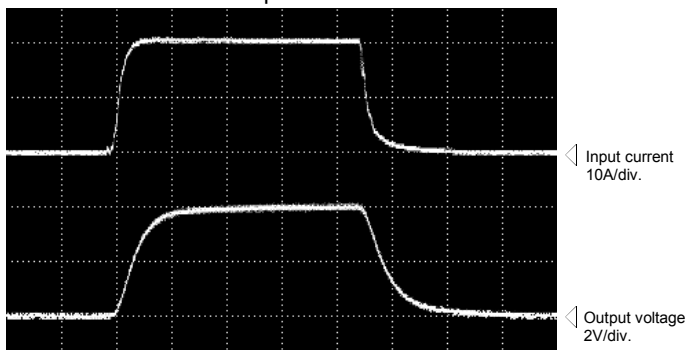
Specification Ta=25°C

Type	HC-PDG05V4B15	HC-PDG10V4B15	HC-PDG20V4B15	HC-PDG30V4B15	HC-PDG50V4B15
Rated current [If]	±5A	±10A	±20A	±30A	±50A
Continuously flowing DC current	±8.8A	±13.8A	±23.3A	±23.3A	±35.4A
Saturation current [Is]	±15A	±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
Turns	10	6	3	2	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=If/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				

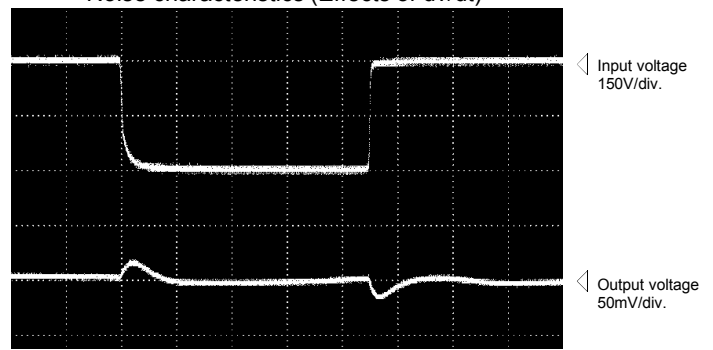
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart HC-PDG20V4B15 Time base: 5μs/div.

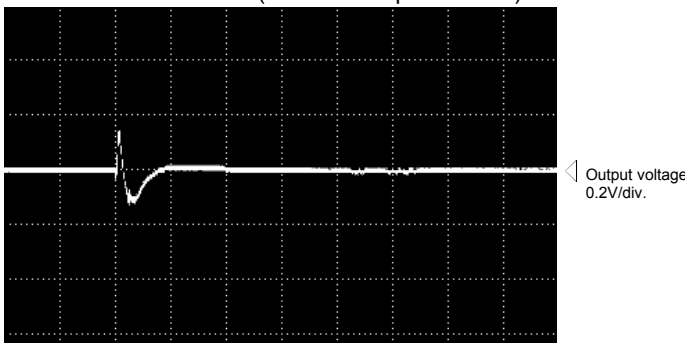
Pulse current response characteristic



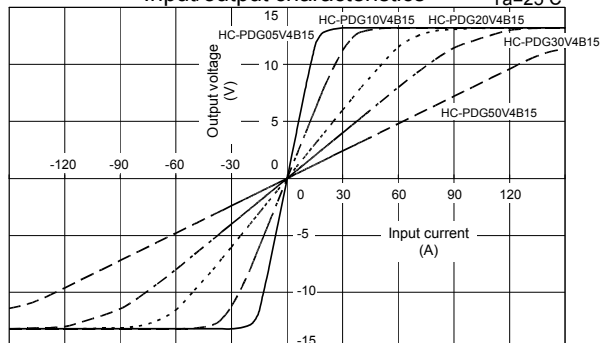
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Input/output characteristics



Note: The marks "◁" means "0V or 0A."