

HC-PSG



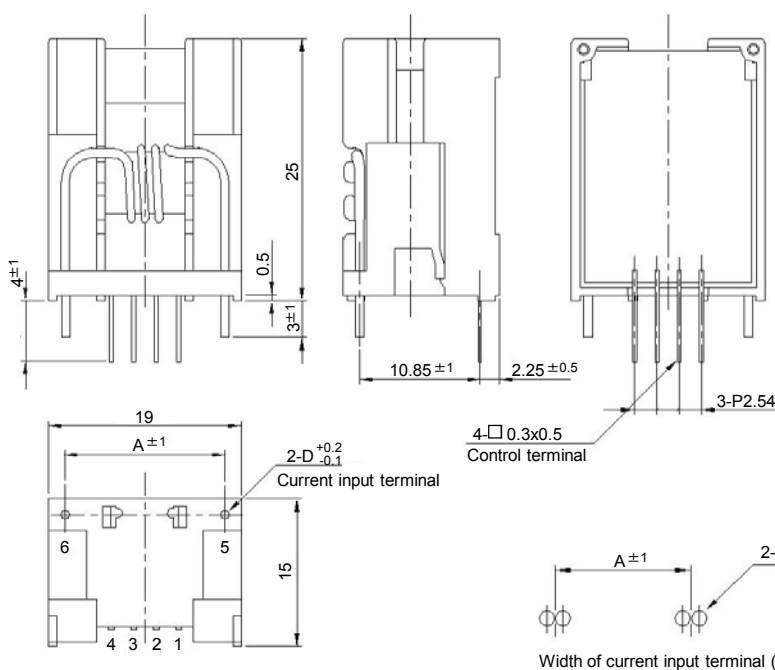
- Rated current 1A ~ 50A
- Superior noise-resistance
- Models available from 1A
- Single-power supplies also available
- ± 12 Volt version also available

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
Φ0.4	Φ1.3	15.7
Φ0.8	Φ0.8	15.7
Φ1.0	Φ1.0	15.7
Φ1.3	Φ1.3	15.7
Φ1.1 x 2	Φ1.1 x 2	14.3
Φ1.4 x 2	Φ1.4 x 2	14.3

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

Weight : 8g

General tolerance: ± 0.5

Specification

Ta=25°C

Type	HC-PSG01V4B15	HC-PSG05V4B15	HC-PSG10V4B15	HC-PSG20V4B15	HC-PSG30V4B15	HC-PSG50V4B15
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	Φ0.4	Φ0.8	Φ1.0	Φ1.3	Φ1.1 x 2	Φ1.4 x 2
Turns	30	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=If/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					

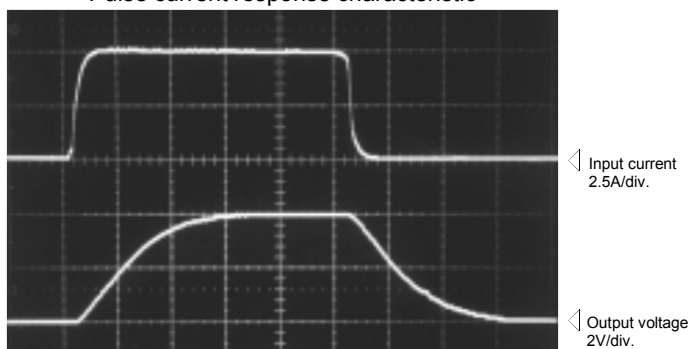
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart

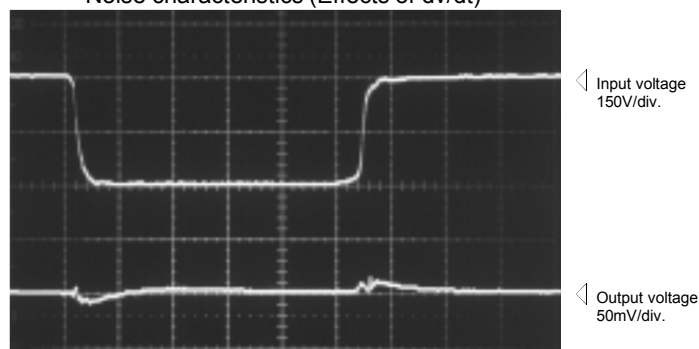
HC-PSG05V4B15

Time base: 5μs/div.

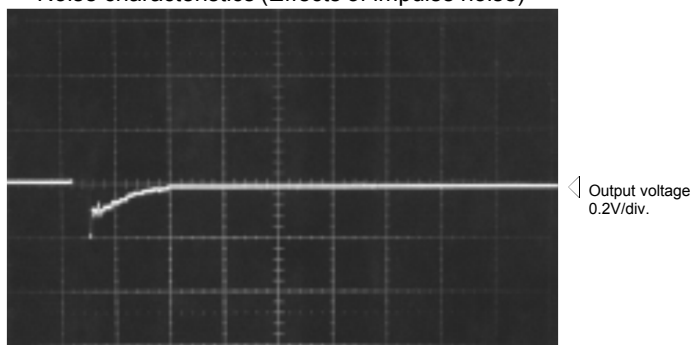
Pulse current response characteristic



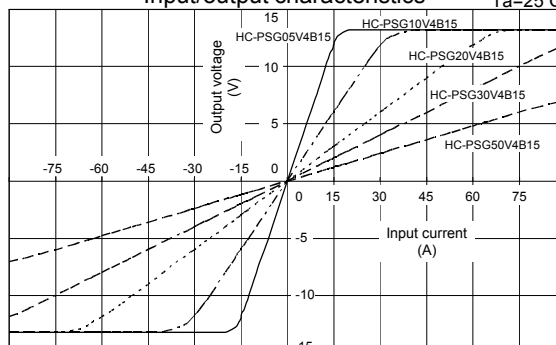
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Input/output characteristics



Note: The marks "◁" means 0V or 0A.