

HC-PL



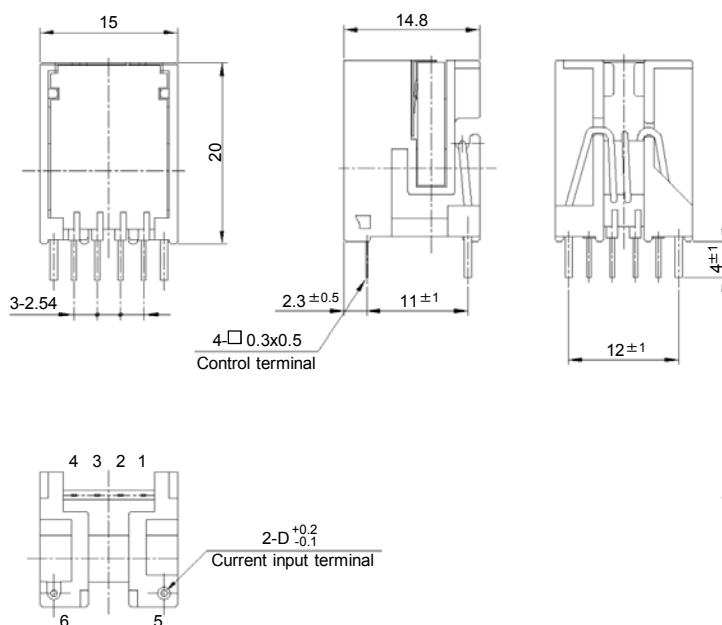
- Rated current 5A ~ 30A
- Requires little space on the PCB
- Single-power supplies also available
- ± 12 Volt version also available

Applications

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

Dimensions

(mm)



Dimensions of Current Input Terminals

Size of primary winding	Width D
$\Phi 0.6$	$\Phi 0.6$
$\Phi 0.8$	$\Phi 0.8$
$\Phi 1.0$	$\Phi 1.0$
$\Phi 1.3$	$\Phi 1.3$

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

Weight : 6g

General tolerance: ± 0.5

Specification

Ta=25°C

Type	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	Φ0.8	Φ0.8	Φ1.0	Φ1.3
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	Within 10%			
Hysteresis voltage range	Within 100mV			
Output Temp. Coef.	Within ±0.1%/°C			
Residual output Temp. Coef.	Within ±2mV/°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			

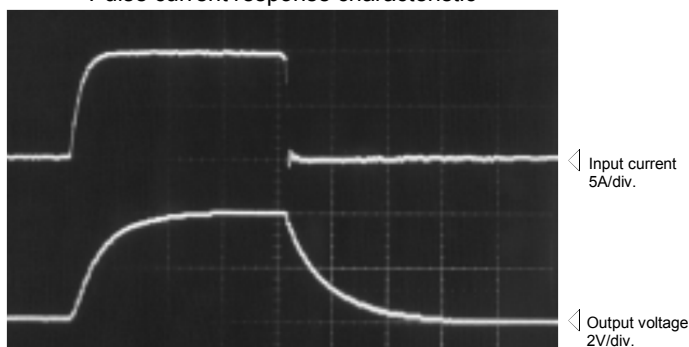
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart

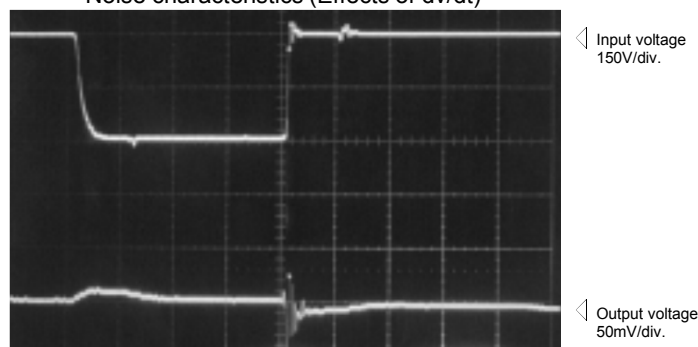
HC-PL10V4B15

Time base: 5μs/div.

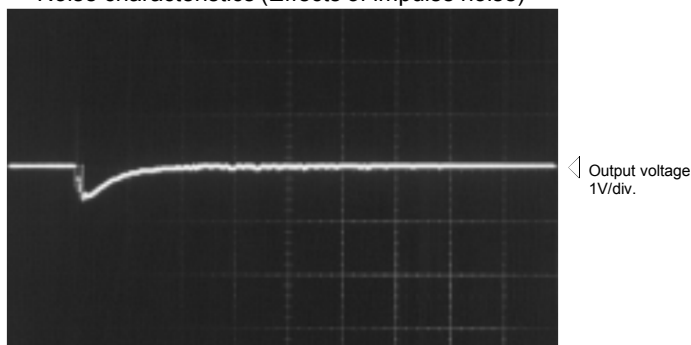
Pulse current response characteristic



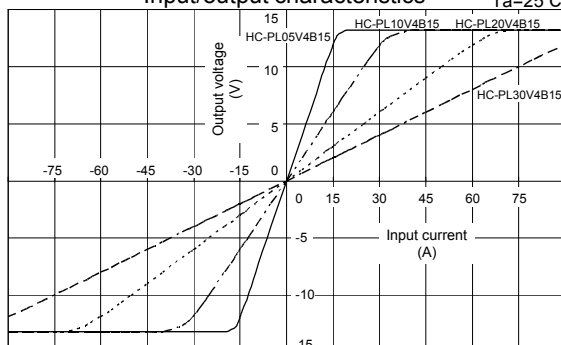
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Input/output characteristics



Note: The marks "◁" means 0V or 0A.