KOHSHIN

HS-PTA series

Small current range
Bolt on type

HS-PTA

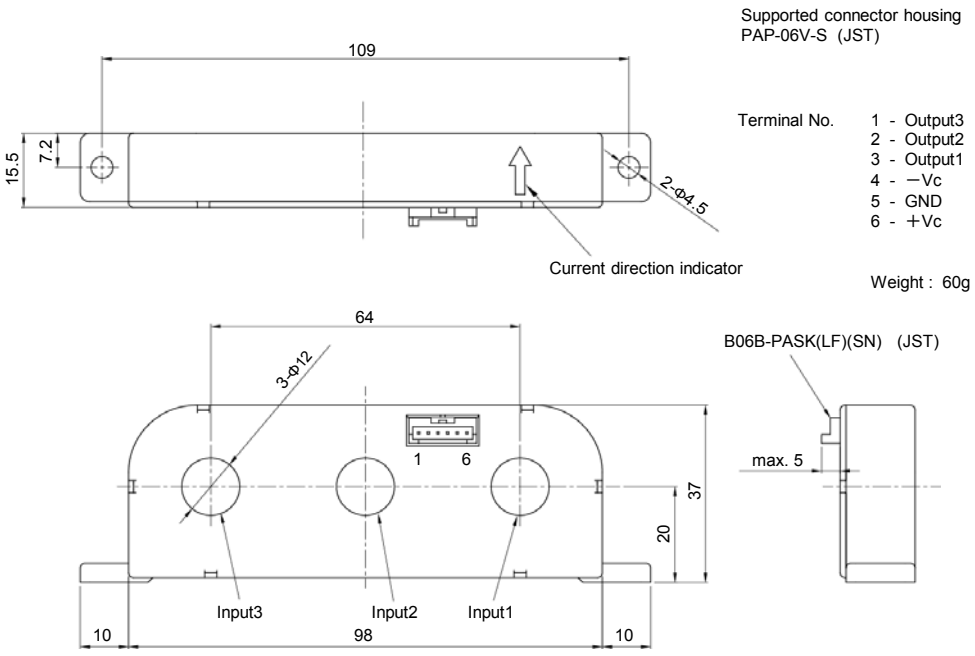
- Rated current 50A ~ 100A
- Three circuits can be measured at the same time
- Realized high precision and compact size
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared

Applications

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

Dimensions

(mm)



General tolerance: ±0.5

Specification

Ta=25℃

	Current output type	
Type	HS-PTA050A00125B15	HS-PTA100A0025B15
Rated current [If]	±50A	±100A
Continuously flowing DC current	±50A	±100A
Saturation current [Is]	±150A	±200A
Linearity limits	0~±150A (RL=10~100Ω)	0~±200A (RL=10~50Ω)
Rated output [Ih]	I0±12.5mA±1%	I0±25mA±1%
Residual output [I0]	Within ±0.2mA	
Output linearity	Within ±0.3%	
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 10%	
Hysteresis voltage range	Within 0.2mA	
Output Temp. Coef.	Within ±0.02%/℃	
Residual output Temp. Coef.	Within ±0.01mA/℃	
Control power supply	±15V±5%	
Consumption current	60mA+(Input current/4000)	
Operating Temp.	-15℃~+80℃	
Storage Temp.	-25℃~+85℃	
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.

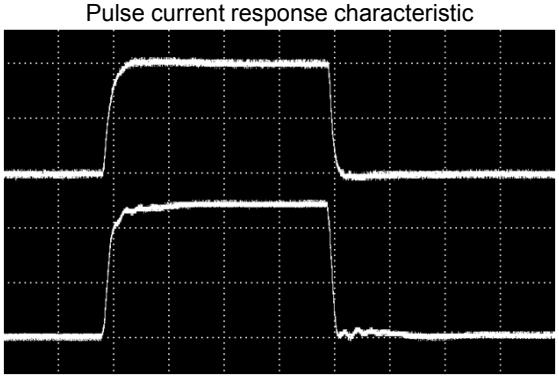
Note3) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart

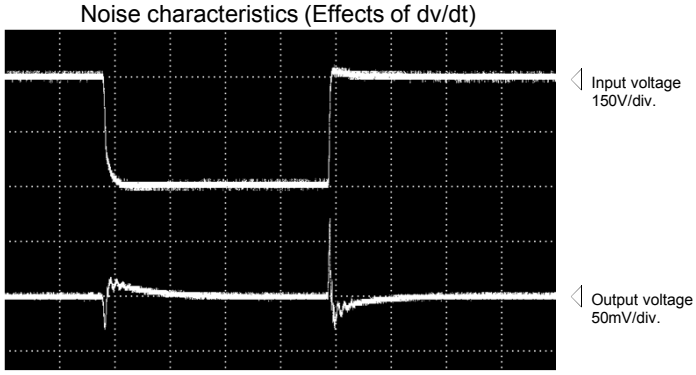
HS-PTA100A0025B15 (RL=50Ω)

Time base: 5μs/div.

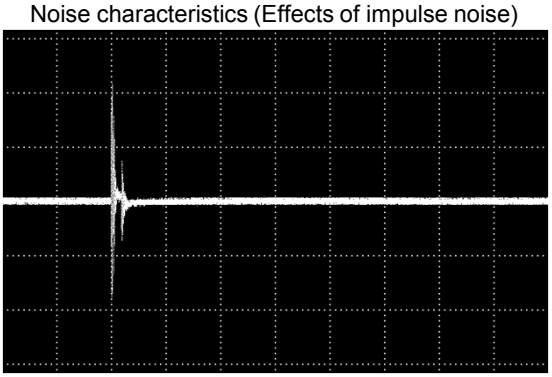
Pulse current response characteristic



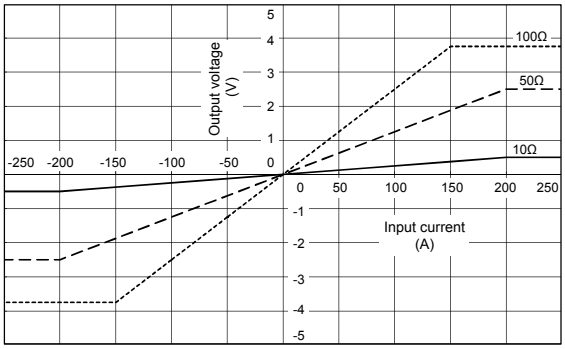
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Load resistance-output characteristics (Current output type) Ta=25℃



Note: The marks " ◁ " means 0V or 0A.