dgseals.com | KOHSHIN

6505 W. Park Blvd.   Suite 306 PMB 356.   Plano, TX 75093
Tel: 972.931.8463 | Fax: 972.931.8668 | sales@dgseals.com

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

  [PDF] ±12V Spec
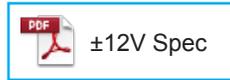
Applications

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

Dimensions

(mm)

Supported connector housing
PAP-06V-S (JST)

Terminal No.	
1 -	Output3
2 -	Output2
3 -	Output1
4 -	(-) terminal
5 -	GND
6 -	(+) terminal

Weight : 86g

B06B-PASK-GW
(JST)

MAX. 5

109±0.5

18.5
17.3

2-Φ4.5
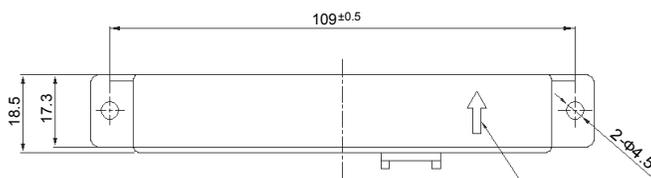
Current direction indicator

64

3-Φ12

1   6

36

1

4

1

Input3   Input2   Input1

10   98   10

General tolerance: ±0.5

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HS-PTF series
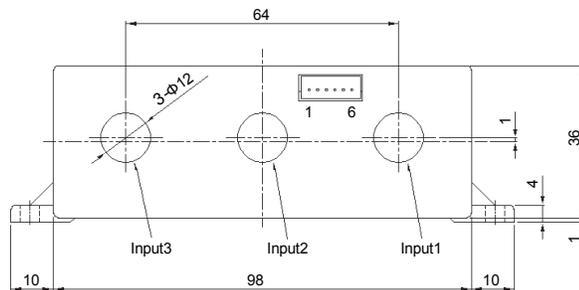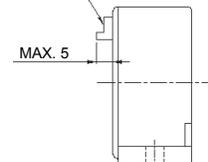
Specification
Ta=25°C

Type		Voltage output 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)
Rated output	+If	V0+4V±1% (RL=10kΩ)		I0+12.5mA±1%	I0+25mA±1%
	-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 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		±15V±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 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-PTF100V4B15
5µs/div. Time base

Pulse current response characteristic

◁ Input current 50A/div.

◁ Output voltage 2V/div.

Noise characteristics (Effects of dv/dt)

◁ Input voltage 150V/div.

◁ Output voltage 50mV/div.
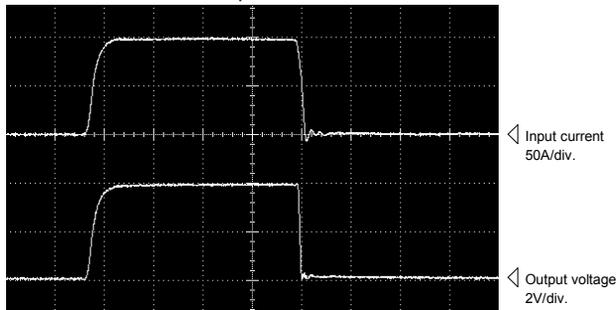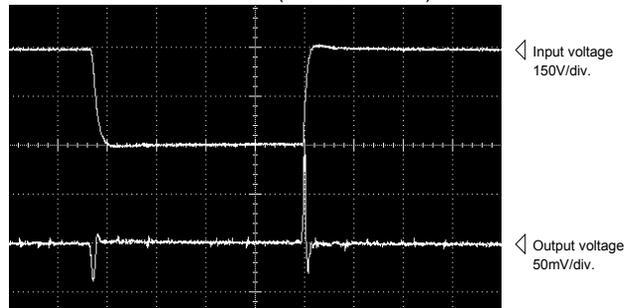
Noise characteristics (Effects of impulse noise)

◁ Output voltage 0.5V/div.
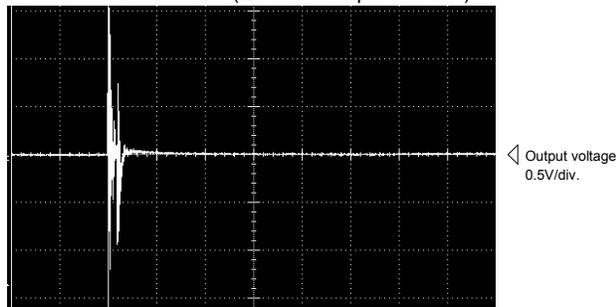
Load resistance-output characteristics (Current output type) Ta=25°C
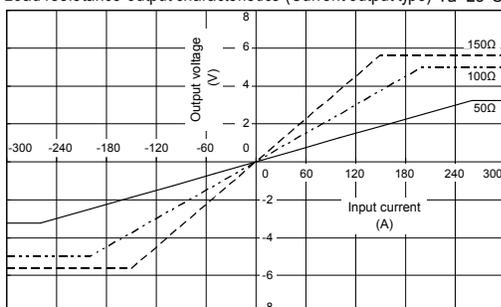
Note: The marks " ◁ " means 0V or 0A.