KOHSHIN

HS-K series

Medium-sized, medium-capacity type
Bolt on type

HS-K

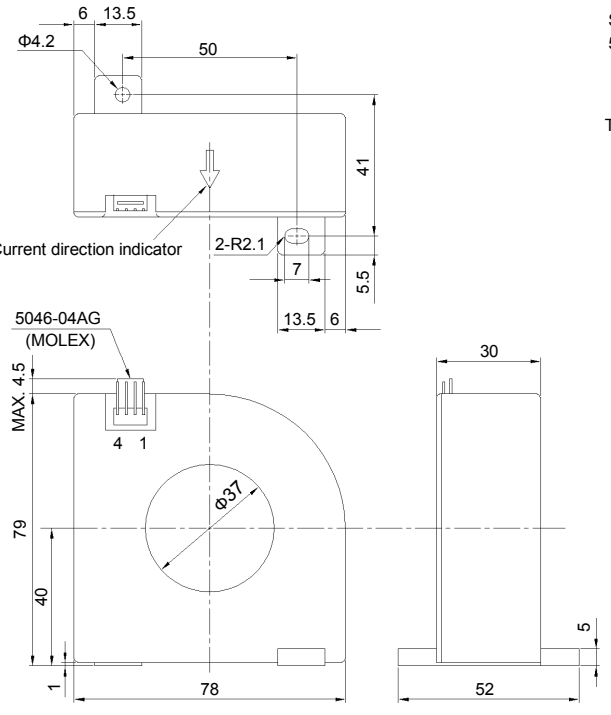
- Rated current 300A ~ 500A
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared

Applications

Inverters, Power supply equipment

Dimensions

(mm)



Supported connector housing
5051-04 (MOLEX)

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

Weight : 226g

General tolerance: ±0.5

Specification

Ta=25°C

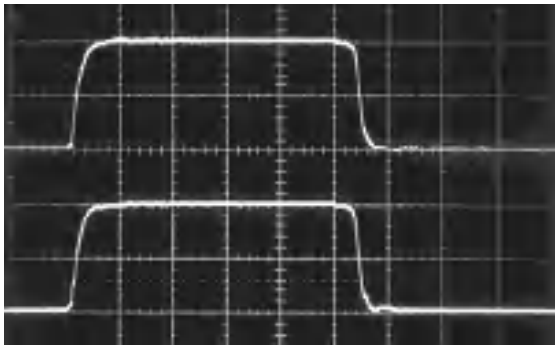
	Voltage output type			Current output type		
Type	HS-K300V4B15	HS-K400V4B15	HS-K500V4B15	HS-K300A0075B15	HS-K400A010B15	HS-K500A010B15
Rated current [If]	±300A	±400A	±500A	±300A	±400A	±500A
Continuously flowing DC current	±600A	±800A	±1000A	±600A	±800A	±1000A
Saturation current [Is]	±600A	±800A	±1000A	±600A	±800A	±1000A
Linearity limits	0~±600A	0~±800A	0~±1000A	0~±600A (RL=30Ω)	0~±800A (RL=10Ω)	0~±1000A (RL=1Ω)
Rated output [Vh]	±4V±1% (RL=10kΩ)			±75mA±1%	±100mA±1%	
Residual output [Vo]	Within ±20mV			Within ±0.2mA		
Output linearity	Within ±0.5%					
Second coil resistance	Approx. 31Ω		Approx. 42Ω	Approx. 31Ω		Approx. 42Ω
Response time	Within 1μs (at di/dt=100A/μs)					
Response performance	Within 20%					
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	20mA+(Input current/4000)		20mA+(Input current/5000)	20mA+(Input current/4000)		20mA+(Input current/5000)
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 rated output is the one when no load is applied.

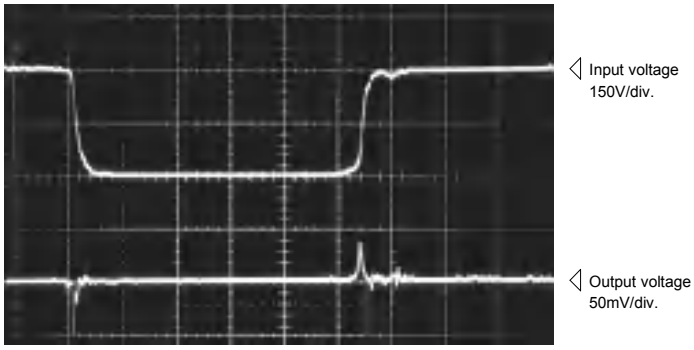
Characteristics chart

HS-K500A010B15(RL=10Ω) 5μs/div. Time base

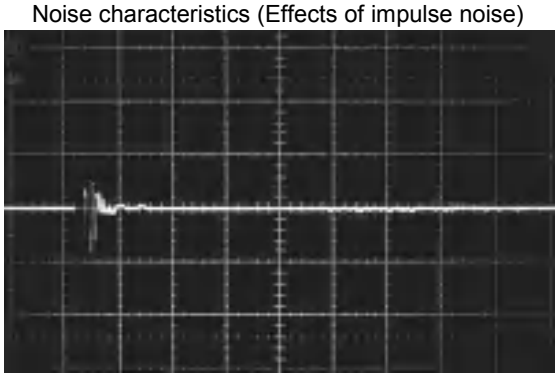
Pulse current response characteristic



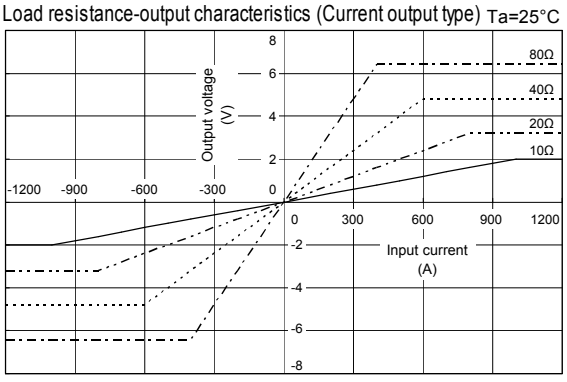
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



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



Note: The marks " ◁ " means 0V or 0A.