

## HS-KB



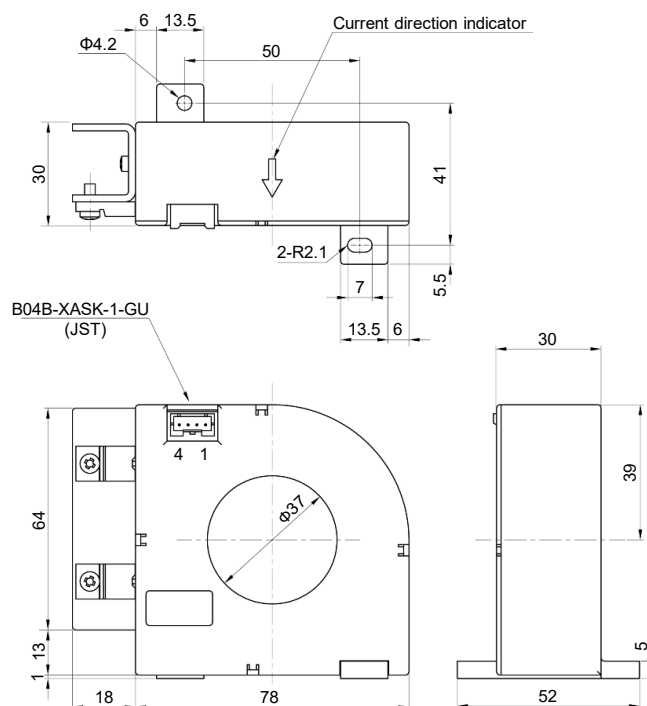
### Applications

Inverters, Power supply equipment

- Rated current 500A ~ 1000A
- Superior in response, linearity and temperature characteristics
- Both the voltage output and the current output were prepared
- High current measurement with external heat sink
- Derivative model of HS-K, maximum measurement current of 1600A
- $\pm 12$  Volt version also available

## Dimensions

(mm)



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

Weight : 250g

## Specification

Ta=25°C

	Voltage output type		Current output type	
Type	HS-KB500V4B15J	HS-KBE10V4B15J	HS-KB500A0125B15J	HS-KBE10A025B15J
Rated current [ If ]	±500A	±1000A	±500A	±1000A
Continuously flowing DC current	±1000A			
Saturation current [ Is ]	±1600A		±1600A (RL=1~3Ω)	
Linearity limits	0~±1500A		0~±1500A (RL=1~3Ω)	
Rated output [ Vh, Ih ]	V0±4V±1.5% (RL=20kΩ)		I0±125mA±1.5%	I0±250mA±1.5%
Residual output [ V0, I0 ]	Within ±20mV		Within ±0.2mA	
Output linearity	Within ±0.5%			
Second coil resistance	Approx. 24Ω			
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)			
Operating Temp.	-10°C~~+80°C			
Storage Temp.	-15°C~~+85°C			
Dielectric withstand voltage	4000V AC 50/60Hz 1minute			
Insulation resistance	Not less than 500MΩ 500V DC			

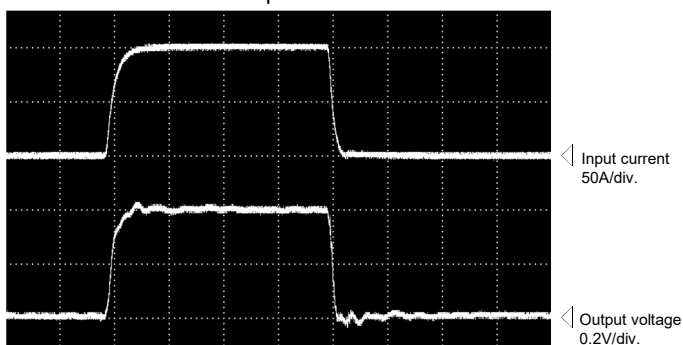
Note1) The indicated residual voltage is the one after the core hysteresis is removed.

## Characteristics chart

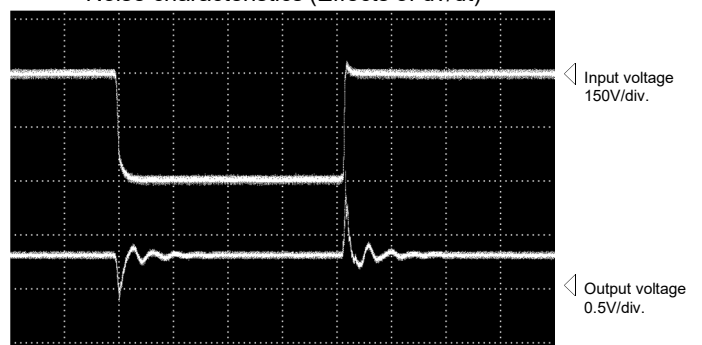
HS-KBE10V4B15J (RL=20kΩ)

Time base: 5μs/div.

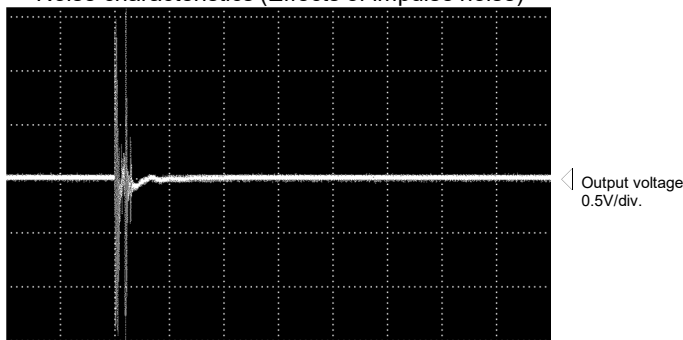
Pulse current response characteristic



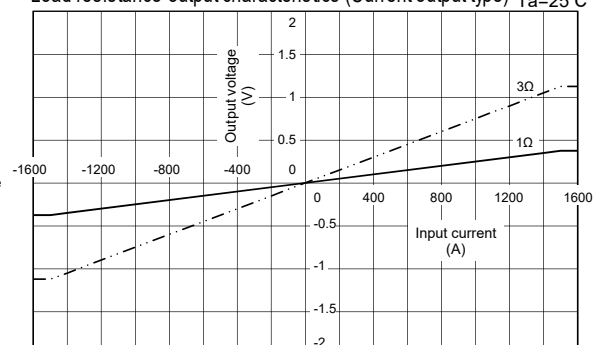
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



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



Note: The marks "◁" means 0V or 0A.