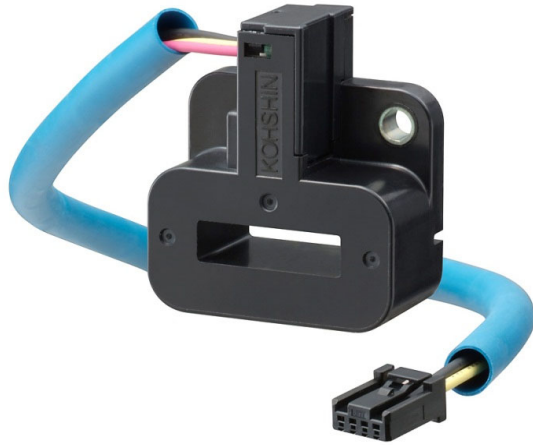


HC-ASA



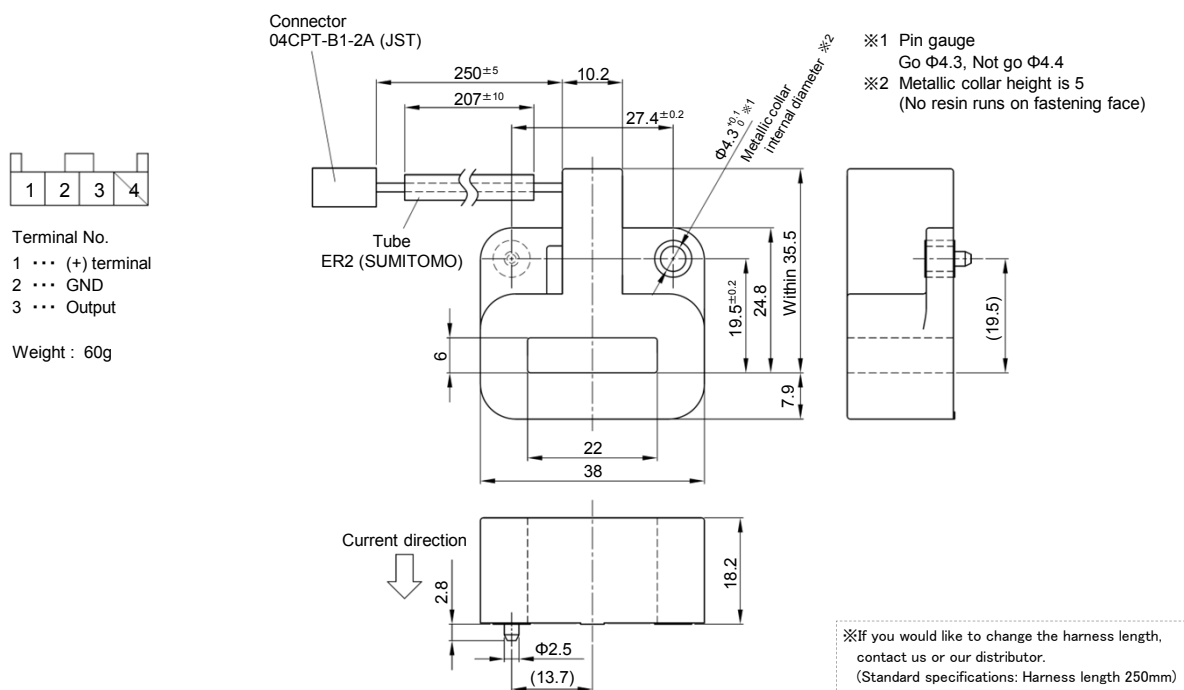
- Rated current 200A ~ 900A
- Small size handles large current (MAX 900A)
- Ensures broad operating temperature range (-40°C ~ +125°C)
- 5V single power supply ratio metric specifications
- Attached to chassis, cable output specifications

Applications

xEV inverters (HEV, EV, PHEV, etc)

Dimensions

(mm)



Specification

Ta=25°C

Type		HC-ASA200V2PP5-16	HC-ASA400V2PP5-16	HC-ASA600V2PP5-16	HC-ASA800V2PP5-16	HC-ASA900V2PP5-16
Rated current [If]		±200A	±400A	±600A	±800A	±900A
Saturation current [Is]		±220A	±440A	±660A	±880A	±990A
Linearity limits		0~±200A	0~±400A	0~±600A	0~±800A	0~±900A
Rated output [Vh]	I=+If	Within V0+2V × (Vcc/5) ± 1.5%				Within V0+2V × (Vcc/5) ± 1.7%
	I=-If	Within V0-2V × (Vcc/5) ± 1.5%				Within V0-2V × (Vcc/5) ± 1.7%
Residual output RL=10kΩ [V0]		Within Vcc/2±30mV				
Output linearity		Within ±1%				Within ±1.2%
Response time		Within 10μs (at di/dt=100A/μs)				
Response performance		Within 10%				
Hysteresis voltage range		Within 30mV	Within 22mV	Within 16mV	Within 13mV	
Output Temp. Coef.		Within ±0.04%/°C				
Residual output Temp. Coef.		Within ±1mV/°C	Within ±0.6mV/°C	Within ±0.5mV/°C	Within ±0.4mV/°C	
Control power supply [Vcc]		+5V±4%				
Power variation characteristics change [+5V±4%]	I=±If	3.5~4.5%				
	I=0	3.2~4.8%	3.5~4.5%			
Consumption current		Within 30mA				
Operating Temp.		-40°C~-+125°C				
Storage Temp.		-40°C~-+125°C				
Dielectric withstand voltage		2500V AC 50/60Hz 1minute				
Insulation resistance		Not less than 500MQ 500V DC				

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

Note2) Output specifications include 100-Ω output resistance and 1-mA maximum output current.

Note3) Since residual output is ratiometric output, it varies according to the control power supply value.

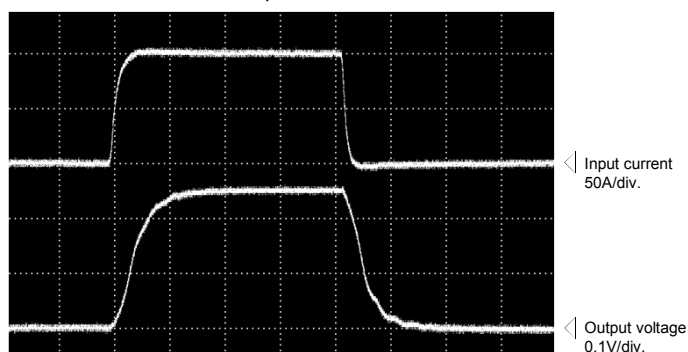
Note4) Code at the end of the model name represents harness specifications.

Characteristics chart

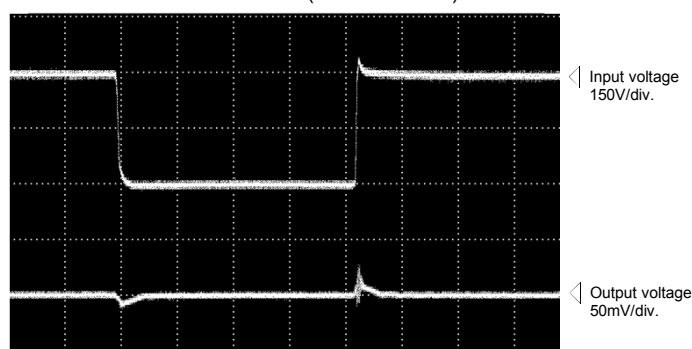
HC-ASA800V2PP5-16

Time base: 5μs/div.

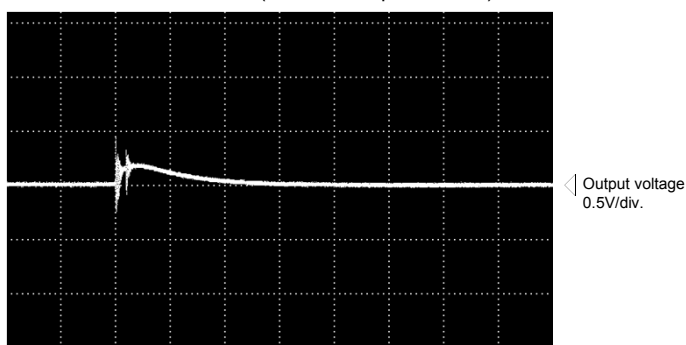
Pulse current response characteristic



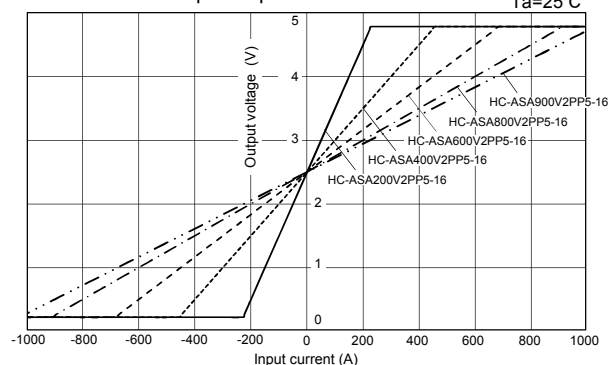
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Input/output characteristics



Note: The marks "◁" means 0V or 0A.