

SC6 Series

model	SC6-50A	SC6-125A
Spec. @ 25°C		
Nominal current (n. rms)	±50A	±125A
Max. current range	75A	200A
Load resistor (@in)	50 ~ 100Ω	20 ~ 80Ω
Nominal analog output	50mA	100mA
Current ratio	1:1000	
Coil resistance (@70°C)	30Ω	
Supply voltage	±12V ~ ±15V DC (± 6%)	
Accuracy	±0.5%	
Linearity	±0.1%	
Zero offset output	< ±0.2mA	
Temperature drift of offset (-45°C ~ 70°C)	≤ ±0.2mA (Typ.), ≤ ±0.5mA (Max.)	
drift accurately followed	> 100A/μS	
Bandwidth	DC ~ 100 kHz	
Response time	< 1 μS	
Hysteresis error (I _{F.S.} →0)	≤ 0.5mA (I _{F.S.} →0)	
Isolation voltage	3kV rms / 50 Hz / 1Min.	
Current consumption	10mA+Output Current	
Operating temperature range	-40 ~ +85°C	
Storage temperature range	-40 ~ +90°C	

DESCRIPTION:

SC6 series of closed loop hall effect current sensors sense current range from 50A to 125A, are based on the principle of the hall effect and null balance method. The output current is the balancing current which is a precise image of the primary current reduced by the amount of secondary turns at any time.

The mounting style is printed circuit board-mountable on 3 Pins.

Holes which sensed conductors pass through are rectangle.

FEATURES:

- Measures DC, AC, impulse currents and a variety of irregular waveforms
- High accuracy, reliability
- Low temperature drift
- PCB on 3 Pins mounting style
- Thru hole of rectangle design (10mm*13.5mm)
- High accuracy, reliability
- Low temperature drift
- Immune to ambient magnetic field
- Wide bandwidth
- Flexibility of connection style
- Output signal accurately tracks changes in input signal

Typical Applications:

- Variable speed drives
- Inverter power supplies
- UPS and telecommunication power supplies
- Current feedback control system
- Ground fault detectors
- Automatic measurement
- Wattmeters
- Frequency converters
- Welding power supplies

