

## Closed Loop Hall Current Sensor CYHCS-B4C

This Hall Effect current sensor is based on closed loop compensating principle and can be used for measurement of DC and AC current, pulse currents etc. The output of the transducer reflects the real wave of the current carrying conductor.

Product Characteristics	Applications
<ul style="list-style-type: none"><li>• Excellent accuracy</li><li>• Very good linearity</li><li>• Less power consumption</li><li>• Current overload capability</li><li>• Goods temperature properties</li></ul>	<ul style="list-style-type: none"><li>• General Purpose Inverters</li><li>• AC/DC Variable Speed Drivers</li><li>• Battery Supplied Applications</li><li>• Uninterruptible Power Supplies (UPS)</li><li>• Switched Mode Power Supplies</li></ul>

### ELECTRICAL CHARACTERISTICS

Part number	CYHCS-B4C-300A	CYHCS-B4C-400A	CYHCS-B4C-500A
Rated current (RMS)	±300A	±400A	±500A
Max. input current	±600A	±800A	±1000A
Turns ratio	1:3000	1:4000	1:5000
Secondary Internal Resistance	30Ω	35Ω	42Ω
Rated output current	±100mA	±100mA	±100mA
Supply voltage	±15V ~ ±24VDC ±5%		
Galvanic isolation	6kV RMS/50Hz/1min,		
Measuring resistance	10Ω ~ 80Ω		

### ACCURACY DYNAMIC PERFORMANCE

Zero offset current	±0.2mA
Thermal drift of offset current	0.6mA (-40°C ~ +85°C)
Response time	<1.0μs
Accuracy	±0.5%
Linearity	≤0.1% FS
Bandwidth(-3dB)	DC ~ 150kHz

### GENERAL CHARACTERISTIC

Operating temperature	-40°C ~ +85°C
Storage temperature	-40°C ~ +125°C
Current consumption	12mA + output current

**Dimensions (mm)**

