





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	
 Excellent accuracy Very good linearity Small size and encapsulated Less power consumption Current overload capability 	 Photovoltaic equipment General Purpose Inverters AC/DC Variable Speed Drivers Battery Supplied Applications Uninterruptible Power Supplies Switched Mode Power Supplies 	

ELECTRICAL DATA

Part number	CYHCS-D8-500A	CYHCS-D8-1000A	
Nominal input current	500A	1000A	
Measuring range	800A	0-1500A ~ 0-2000A	
Turns ratio	1:5000	1:5000	
Measuring resistance	with Vc=±15V, @±500Amax, 0-60Ω, @±800Amax, 0-12Ω,	with Vc=±15V, @±1000Amax, 0-15Ω, @±1200Amax, 0-4Ω	
	with Vc=±24V, @±500Amax, 5-150Ω, @±800Amax, 5-65Ω	with Vc=±24V, @±1000Amax, 5-55Ω, @±1500Amax, 5-24Ω @±2000Amax, 5-16Ω	
Nominal output current	100mA ± 0.5%	200mA ± 0.5%	
Supply voltage	±15VDC ~ ±24VDC		
Current consumption	≤28mA + Output current at Vc=±15V		
Galvanic isolation	50Hz, 1min, 6KV		
Secondary internal resistance	Ta=25°C, 40 Ω		

ACCURACY DYNAMIC PERFORMANCE

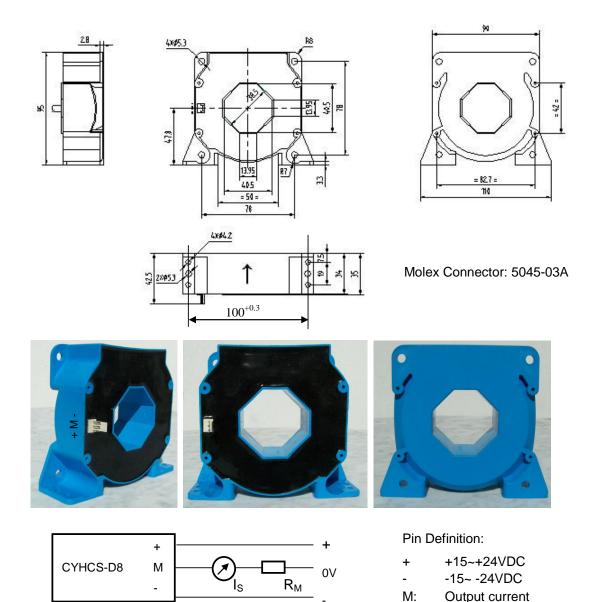
Zero offset current Ta=25°C	< ±0.4mA
Magnetic Offset current IP→0	< ±0.2mA
Thermal drift of offset current	IP=0, Ta=-40°C ~ +85°C, ±0.8mA
Response time	<1µs
Linearity	≤0.1%FS
Accuracy at +25°C	± 0.5% FS
Bandwidth(-3dB)	DC150kHz
di/dt	>100A/µs

GENERAL DATA

Operating temperature	-40°C ~ +85°C
Storage temperature	-40°C ~ +125°C
Unit weight	510g

Products constantly update. All specifications are subject to change without notice. For more information on this product, please contact: PC&S, Inc. at +1 (800) 523-9194 or +1 (973) 448-9400

Dimensions (mm)





- 1. Connect the terminals of power source, outputs respectively and correctly, never make wrong connection for DC current.
- 2. Temperature of the primary conductor should not exceed 100 °C.
- 3. Dynamic performances (di/dt and the response time) are the best with a single bar completely filling the primary hole.
- 4. In order to achieve the best magnetic coupling, the primary windings have to be wound over the top edge of the device.



 For more information and certifications, please contact:

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