



Speciality Magnetic Components  
QUALIFIED to ISO 9001:2008

---

## Open Loop Hall Effect Current Transformer Type HOL

---



---

The HOL series are Open Loop Hall Effect Current Transformers covering the range of 100A to 1000A. The product provides a voltage output which is galvanically isolated from the primary conductor. Designed to be panel mounted, the HOL series is controlled via an industry standard connector.

---

### Features

- Low Supply Current Consumption
- 5kV Proof Stress
- Panel Mounting
- Designed in Quality

### Applications

- Automotive
- Variable Speed Drives
- D.C. Power Supplies
- UPS Systems

### Benefits

- Reduced Power Supply Costs
- Useable with Bare Primary Conductors
- Horizontal or Vertical Mounting
- High Reliability

- Power System Monitoring
- Welding Equipment
- Traction
- Switch Mode Power Supplies

## TECHNICAL DATA

Product Type	HOL	100	200	300	400	500	600	1000
Nominal Primary Current (I <sub>PN</sub> )		100	200	300	400	500	600	1000
Primary Current measuring range	0 to	±300	±600	±900	±1100	±1200	±1300	±1500

## SPECIFICATION

Nominal Power Supply	±15V +5% to ±12 - 5%
Supply Current (max)	20 mA
Load Resistance	1 kΩ min.
Output Voltage @ ± I <sub>PN</sub>	± 4 V
RMS Rated Voltage <sup>1</sup>	500 V
Isolation Resistance @ 500 Volts	>500 MΩ
AC Accuracy <sup>2</sup> @ 25°C, ±15V @ I <sub>PN rms</sub> 50Hz	±1% of nominal primary current
Linearity <sup>2</sup>	±0.5%
Output Offset @ 25°C	± 10 mV at primary=0
Output Offset Drift -25 to +85°C	± 1 mV/°C
Thermal Drift of Gain -25 to +85°C	± 0.05 %/°C
Response Time	< 3 μs
di/dt following	> 50 A/μs
Bandwidth (- 3 dB)	DC to 50 kHz
Creepage Distance	>15 mm
Clearance Distance	>15 mm
RMS Voltage Isolation Test, 50 Hz 1min	5 kV

## GENERAL

Operating & Storage Temperature Range	-25 to +85°C
Weight	200g
Housing	PA66 15% Glass Filled Flammability Rating V0 , CTI Rating >140
Connector	Molex 5046-04/A
Mounting	Panel Mounting
Signal Sense	Positive output obtained when current flows as shown by direction of arrow

<sup>1</sup> Overvoltage category III, Pollution Degree 2

<sup>2</sup> Excludes the zero offset

### Secondary Terminals

Terminal 1	+Vs	Terminal 2	- Vs
Terminal 3	Output	Terminal 4	0V

## Dimensions

