

# Hall Current Sensor HIEM-DC-600LT

For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).



## Electrical data

TYPE		DC-100LT	DC-200LT	DC-300LT	DC-400LT	DC-500LT	DC-600LT
parameter	sign						
Primary nominal r.m.s. current	$I_{PN}$	100A	200A	300A	400A	500A	600A
Primary current measuring range	$I_P$	0~ $\pm 300A$	0~ $\pm 600A$	0~ $\pm 900A$	0~ $\pm 900A$	0~ $\pm 1200A$	0~ $\pm 1200A$
Secondary nominal RMS voltage	$V_{SN}$	4V $\pm 1\%$ at $I_{PN}$ ( $R_L = 10\text{ k}\Omega$ )					
Supply voltage	$V_C$	$\pm 15V\text{ DC } \pm 5\%$					
Zero offset voltage@ $I_{PN}=0$ , $T_A = 25^\circ\text{C}$	$V_0$	$\pm 30\text{mV}$					
Thermal drift of offset voltage@ $I_{PN}=0$	$V_{OT}$	within $\pm 1\text{mV}/^\circ\text{C}$					
Linearity of $V_{SN}$ at $I_{PN} = \text{F.S}$	$\epsilon_L$	$\pm 1\%$ of $V_{SN}$ at $I_{PN} = \text{F.S}$					
Response time	$T_r$	7 $\mu\text{s}$ max					
R.m.s. voltage for AC isolation test	$V_d$	2.5KV/50 or 60Hz/1min					
Ambient operating temperature	$T_a$	-10~+80 $^\circ\text{C}$ E: -40~+85 $^\circ\text{C}$					
Ambient storage temperature	$T_s$	-15~+85 $^\circ\text{C}$ E: -45~+105 $^\circ\text{C}$					

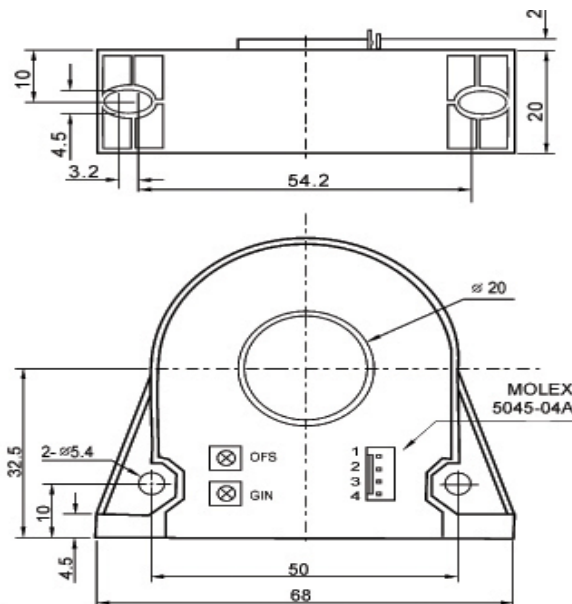
## Features

1. Opened loop (compensated) multirange current sensor using the Hall effect
2. Flexible way of installment
3. Low power consumption
4. No insert losses
5. High immunity to external interference

## Applications

1. AC variable speed drives and serve motor drives
2. Uninterruptible Power Supplies (UPS)
3. Battery supplied applications
4. Power supplies for welding applications.

## Dimension(mm)



## Pin Identification

- 1: +15V
- 2: -15V
- 3: Output
- 4: 0V