

# Hall Current Sensor HIEM-DC-300LB

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-50LB	DC-100LB	DC-200LB	DC-300LB
parameter	sign				
Primary nominal r.m.s. current	$I_{PN}$	300A	500A	600A	300A
Primary current measuring range	$I_P$	0~±150A	0~±300A	0~±400A	0~±500A
Secondary nominal RMS voltage	$V_{SN}$	4V±1% at $I_{PN}$ ( $R_L=10K\ \Omega$ )			
Supply voltage	$V_C$	±15V DC ±5%			
Zero offset voltage@ $I_{PN}=0, T_A=25^\circ C$	$V_0$	within±30mV			
Thermal drift of offset voltage@ $I_{PN}=0$	$V_{OT}$	±1.5mV/°C	within±1mV/°C		
Linearity of $V_{SN}$ at $I_{PN}=F.S$	$\epsilon_L$	±1 of $V_{SN}$ at $I_{PN}=F.S$			
Response time	$T_r$	5μs Type 7μs max			
R.m.s. voltage for AC isolation test	$V_d$	2.5KV/50Hz/1min			
Ambient operating temperature	$T_a$	-10~+80°C E:-40~+85°C			
Ambient storage temperature	$T_s$	-15~+85°C E:-40~+105°C			



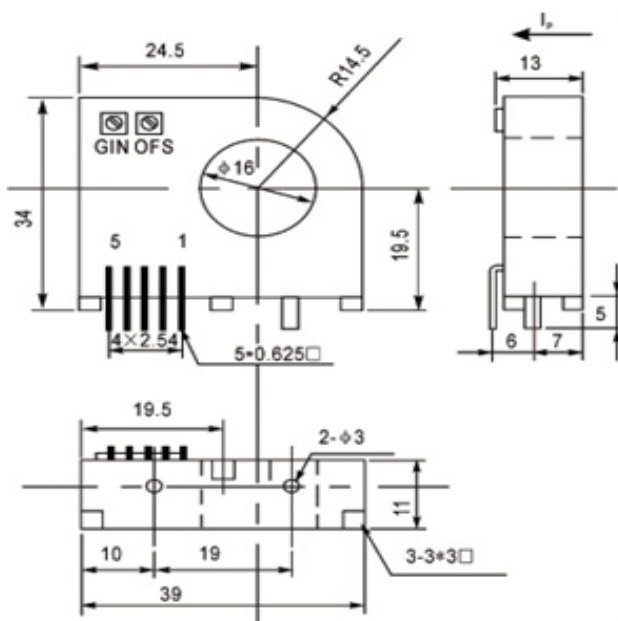
## Features

1. Opened loop (compensated) multirange current sensor using the Hall effect
2. Voltage supplies
3. Very low temperature drift
4. Wide frequency bandwidth
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: GND
- 5: void