

# HCOL52 Series

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



## Operating performance ( AT =25 °C )

Part No.		HCOL52-301-21	HCOL52-501-21	HCOL52-601-21	HCOL52-102-21	HCOL52-202-21
Primary nominal r.m.s. current	$I_{PN}$ (A)	300	500	600	1000	2000
Primary current measuring range	$I_P$ (A)	0~±600	0~±1000	0~±1200	0~±2000	0~±3000
Supply voltage	$V_{CC}$	±15V ( ±5% )				
Output voltage	$V_{OUT}$	4V ±1% @±IPN, RL= 10KΩ				
Current consumption	$I_C$	≤±20mA @ ±IPN				
Offset voltage	$V_O$	< ±20mV @IP=0, TA=25°C				
Linearity	$\epsilon_L$	≤±1% @0~±IPN				
Accuracy	X	±1% @IPN				
Response time	$t_r$	< 20μs				
di/dt accurately followed	di/dt	> 50A/μs				
Thermal drift of Vo	$V_{OT}$	≤±0.5mV/°C				
Thermal drift of $V_{OUT}$	$TC\epsilon_G$	< ±0.05%/°C				
Hysteresis offset voltage	$V_{OH}$	≤±20mV @IPN→0				
Isolation voltage	$V_d$	6KV @50(60)HZ/1min				
Isolation resistance	$R_{IS}$	500MΩ @500V				
Frequency bandwidth	f	0~500Hz				

## General data

Operating temperature	TA	-25 ~ 85 °C
Storage temperature	TS	-40 ~ 100 °C
Mass	m	410g
Note		Insulated plastic case recognized according to UL 94-V 0

## Applications

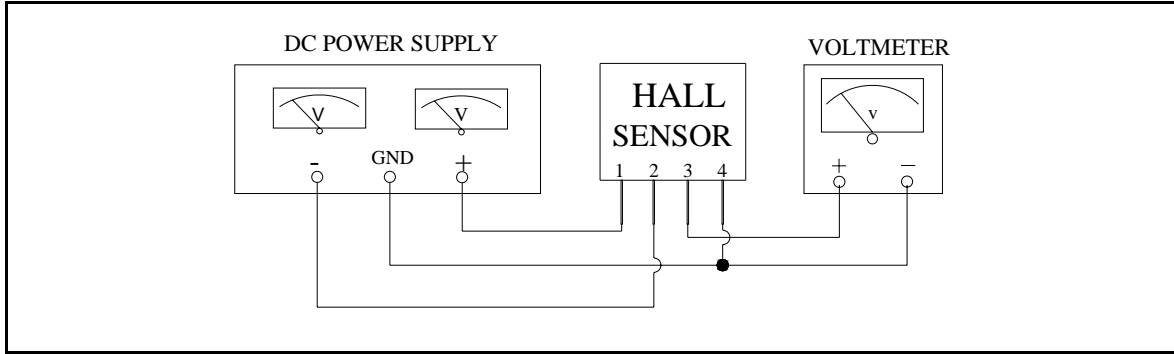
1.AC variable speed drives and servo motor drives	4.Static converters for DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications

## Advantages

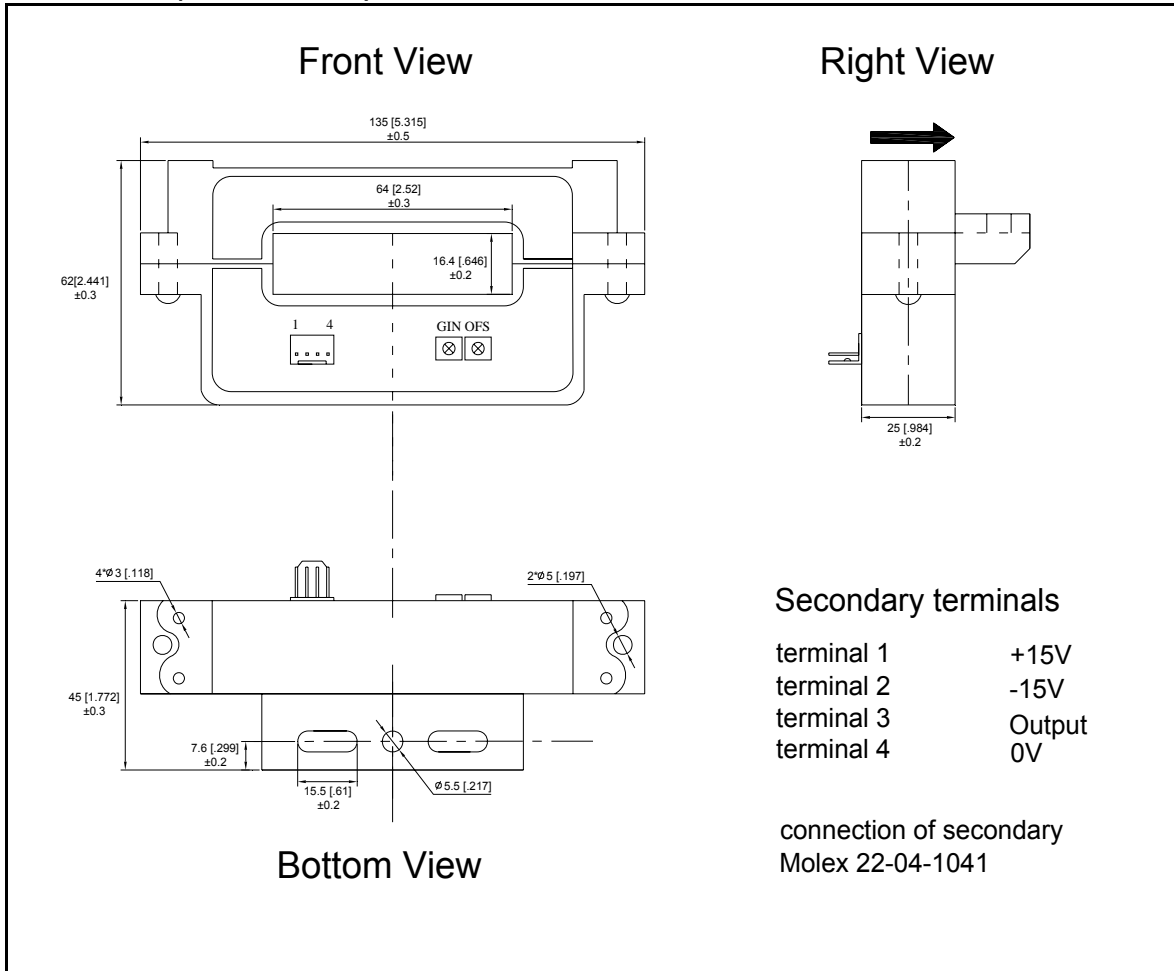
1.Easy mounting	3.Small size and space savings
2.Only one design for wide current ratings range	4.High immunity to external interference

# HCOL52 Series

## Connection



## Dimensions (unit: mm/inch)



## Remarks

1.  $V_{OUT}$  is positive when  $I_P$  flows in the direction of the arrow.
2. Temperature of the primary conductor should not exceed 100 °C.
3. These are standard models. For different versions (supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.) please contact us.