

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	ϵ_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

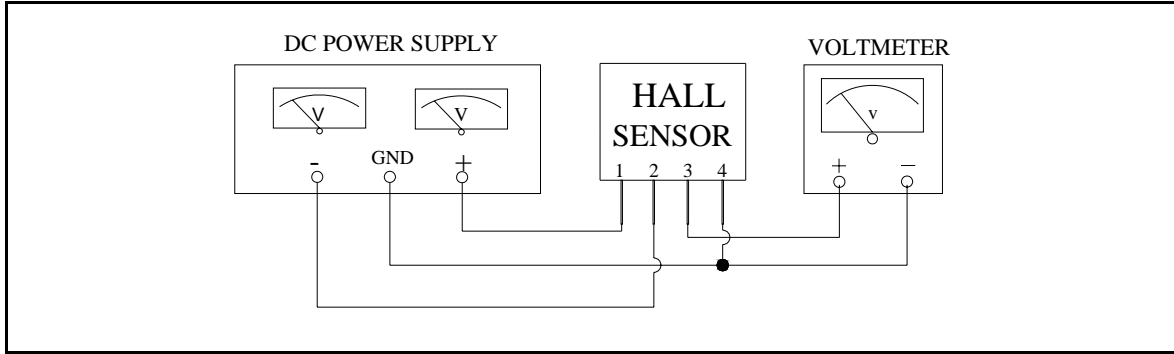
1.AC variable speed drives and servo motor drives	4.Static converters for DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications

Advantages

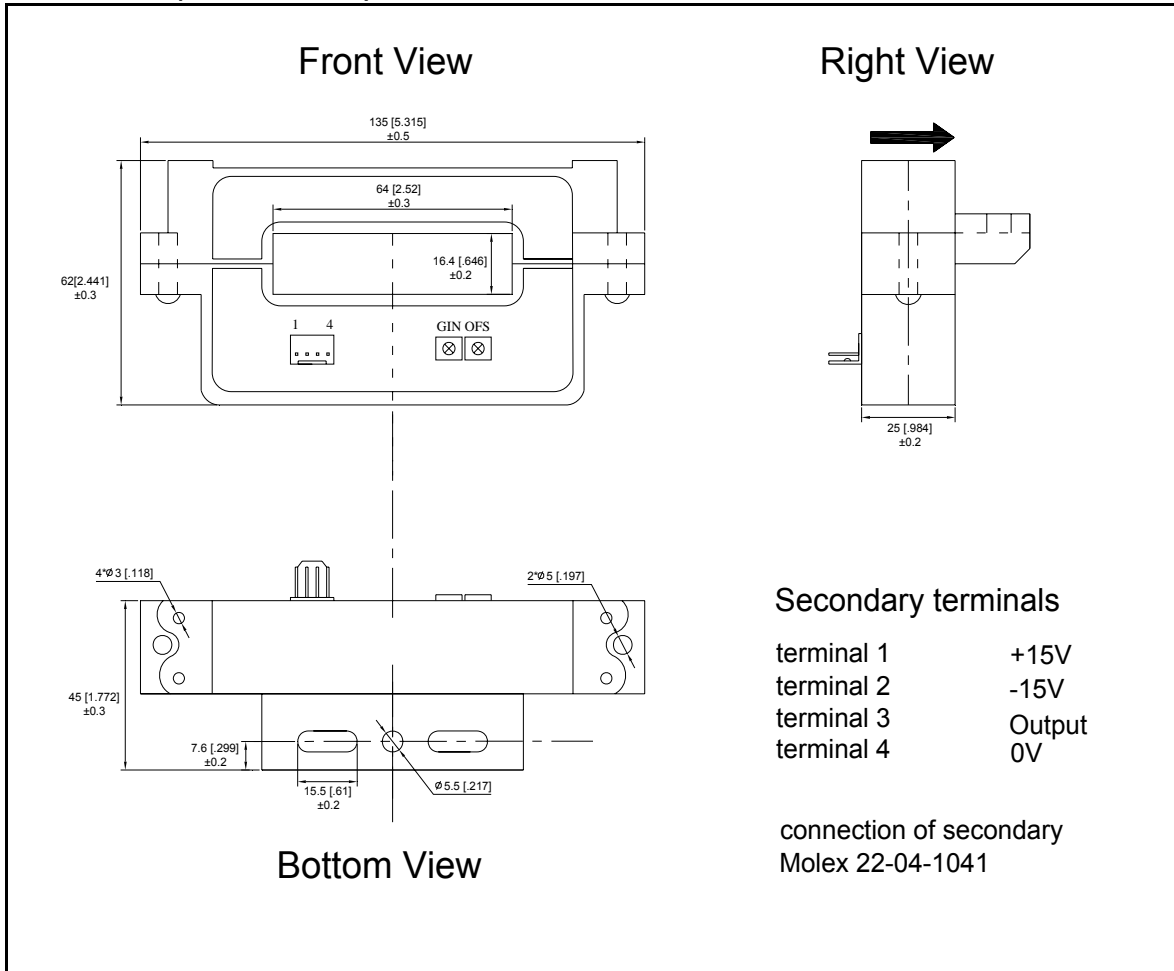
1.Easy mounting	3.Small size and space savings
2.Only one design for wide current ratings range	4.High immunity to external interference

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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.