

HCCL01 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)

Performance		Part No.	HCCL01-050-11	HCCL01-7R5-11	HCCL01-100-11	HCCL01-120-11	HCCL01-150-11	HCCL01-200-11	HCCL01-250-11
Primary nominal r.m.s. current	I_{PN} (A)		5	7.5	10	12.5	15	20	25
Primary current measuring range	I_P (A)		0~±10	0~±15	0~±20	0~±25	0~±30	0~±40	0~±50
Supply voltage	V_{CC}		±15V (±5%)						
Output voltage	V_{OUT}		4V ±1% @± I_{PN} , $R_L = 10K\Omega$						
Current consumption	I_C		≤±20+ I_S mA @ ± I_{PN}						
Offset voltage	V_O		< ±0.03V @ $I_P=0, T_A=25^\circ C$						
Thermal drift of V_O	V_{OT}		≤±0.5mV/°C						
Thermal drift of V_{OUT}	$TC\epsilon_G$		< ±0.04%/°C						
Response time	t_r		< 1µs						
Linearity	ϵ_L		≤±0.1% @0~± I_{PN}						
Accuracy	X		±1% @ I_{PN}						
Hysteresis offset voltage	V_{OH}		≤±20mV @±2 $I_{PN} \rightarrow 0$						
Isolation voltage	V_d		2.5KV @50(60)Hz/1min						
Frequency bandwidth	f		0~150KHz						

General data

Operating temperature	T_A	-25 ~ 85 °C
Storage temperature	T_S	-40 ~ 100 °C
Mass	m	< 20g
Note		Insulated plastic case recognized according to UL 94-V 0

Applications

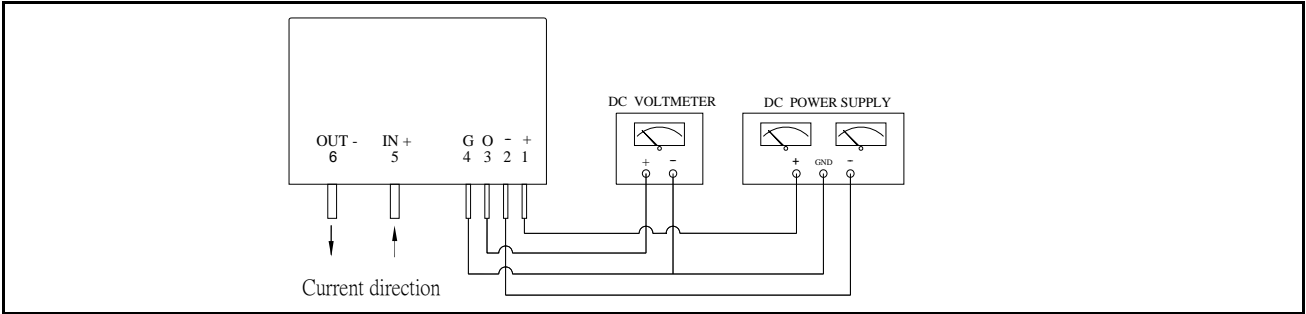
1.AC variable speed drives	4.DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications

Advantages

1.Excellent accuracy	5.Very good linearity
2.Low temperature drift	6.High immunity to external interference
3.No insertion losses	7.Optimized response time
4.Wide frequency bandwidth	8.Current overload capability

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Connection



Dimensions (unit: mm/inch)

