

Hall Current Sensor -TH500-CCS

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 performances (AT =25°c)

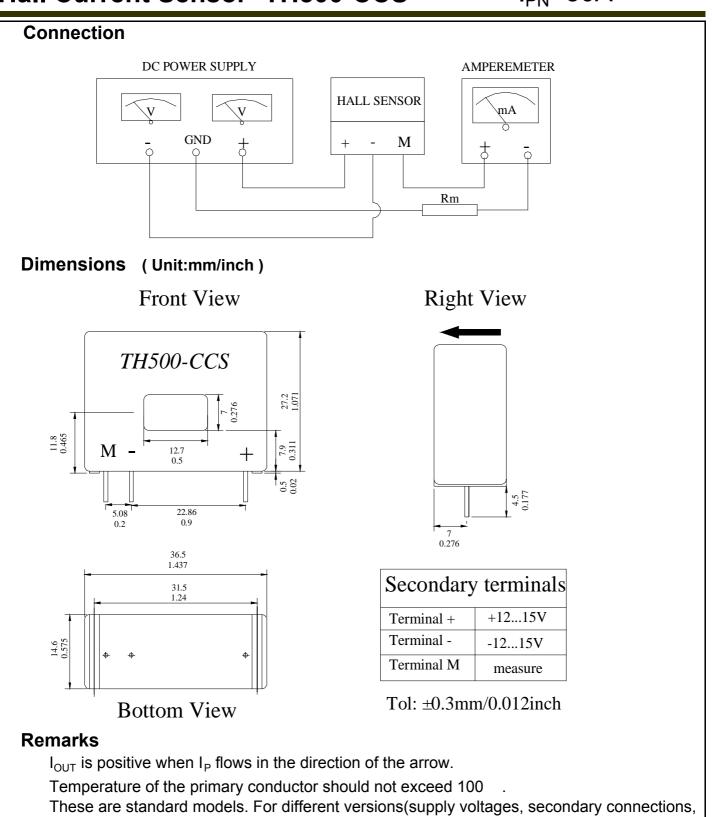
Primary nominal r.m.s. current	I _{PN}	50				А			
Primary current measuring range	I _P	0~±70					A		
Secondary nominal r.m.s. current	I _{SN}	50				mA			
Measuring resistance	R _M			Т _А =7 Гм		R _{M min}	T _A =85 ∽ _M		
		with ±12V	@ ±50A _{max}	10	100	60	95	Ω	
			@ ±70A _{max}	10	50	60 ¹⁾	60 ¹⁾	Ω	
		with ±15V	@ ±50A _{max}	50	160	135	155	Ω	
			@ ±70A _{max}	50	90	135 ²⁾	135 ²⁾	Ω	
Conversion tatio	K _N		1:1000						
Supply voltage	V_{CC}	±12~15 (±5%)					V		
Current consumption	I _C	10(@±15V)+I _S					mA		
Linearity	٤L	±0.1 @0~±I _{PN}					9	%	
Accuracy	Х	$\pm 0.65@I_{PN}V_{C}=\pm 15V, T_{A}=25$,					9	%	
Offset current	lo	< ±0.2 @l _P =0,T _A =25					n	mA	
Thermal drift of lo	I _{OT}	±0.6 (type ±0.1)					mA/		
Response time	t _r	<1					μs		
di/dt accurately followed	di/dt	200					A/µs		
Hysteresis offset current	I _{OH}	±0.3 @±31 _{PN} 0					n	mA	
Isolation voltage	V_{d}	2.5 @50(60)Hz/1min					۲	KV	
Frequency bandwidth	f	0~200					k	KHz	
 General data 									
Operating temperature	Τo	-25 ~+85°C					C°		
Storage temperature	Τs	-40~+85°C					C°		
Mass	m		18				ç	l	
 Applications 									
AC variable speed drives and servo motor drives				Static converters for DC motor drives					
Battery supplied applications				Switched Mode Power Supplies(SMPS)					
Uninterruptible Power Sup	plies(U	PS)	P	ower su	upplie	s for weldi	ing applic	ation	
 Advantages 									
Excellent accuracy				Very good linearity					
Low temperature drift				Optimized response time					
Wide frequency bandwidth				High immunity to external interference					
Very low insertion losses Note: 1)Measuring range l				Urrent over					

Note: 1)Measuring range limited to ±60A_{MAX} 2)Measuring range limited to ±55A_{MAX}



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I_{PN}=50A



unidirectional measurements, operating temperatures, etc.)please contact us.