


Product Specification					
SPECIFICATION FOR 5VDC OUTPUT AC CURRENT SENSOR					
Model number					
CQ25-30A-5VDC-60HZ					
Absolute stress above which the unit may be damaged.					
	Min.		Max.		unit
Ambient temperature	-40		80		°C
Measured current (monotonic but not linear above rating)			120		A-rms max.
Shock (any axis)			2500		g
Range over which operation is guaranteed.					
	Min.		Max.		unit
Ambient temperature	-5		70		°C
Frequency	59		61		Hz
Total harmonic distortion of sensed current (Note 2)			3.0		percent
Vibration (1Hz-10kHz)			200		g
Operating parameters.					
	Min.	Typ.	Max.		unit
Input current	0.0	30.0	36.0		A-rms
Output voltage	0	5.0	6.0		V dc
Output impedance (Note 1)		11.6			k
Load impedance, undamaged 0 to load (Note 1)	0		Infinity		
Sensor internal resistance		11.1			k
Thermal coefficient, potting B		-0.039			%/°C
Rise time constant		90			msec
Fall time constant		100			msec
Physical					
	Min.	Typ.	Max.		unit
Current wire hole size		0.5	0.5		inch
Depth		0.5			inch
Height		1.4			inch
Width		1.5			inch
Weight		35			grams
Polarized output wire leads		12			inch
Flammability, 94 V-O, self extinguishing					
Note 1	Sensors are calibrated with 500 k \pm 2% //300 pf. instrumentation capacity.				
Note 2	Sensor response nearly identical for all waveforms; sine, square, or triangle (except triacs).				
Note 3	The sensor output impedance is approx. 11.5k // 4.7uf.				
Note 4	Maximum output current obtained by dividing output volts by sensor internal resistance.				
Note 5	Sensors are powered by current being measured.				
<p>Smith Research & Technology, Inc.</p>  <p>3109 N. Cascade Ave., Bldg. #201 Colorado Springs, CO 80907-5190 719 634 2259, FAX 719 634 2601 Inductive AC voltage and current sensors</p>					