

PCS-1000I Specifications

The specifications apply when the PCS-1000I is powered on for at least 30 minutes under +18°C~+28°C.



DC Characteristics				
DC Voltage	Range	23°C±5°C (Half Year)		Temperature Coefficient / °C
	200.0000mV	0.0050+0.0035		0.0005+0.0005
	2.000000V	0.0050+0.0010		0.0005+0.0001
	20.00000V	0.0050+0.0010		0.0005+0.0001
	200.0000V	0.0050+0.0010		0.0005+0.0001
	1000.000V	0.0050+0.0020		0.0005+0.0001
Accuracy: ±(% of reading + % of range); Voltage input Resistance:10MΩ for all DC Voltage ranges				
DC Current	Range	Burden Voltage	23°C±5°C (Half Year)	Temperature Coefficient / °C
	30.00000mA	<0.4V	0.01+0.005	0.001+0.002
	300.0000mA	<0.5V	0.01+0.005	0.001+0.002
	3.000000A	<0.8V	0.01+0.005	0.001+0.002
	30.00000A	<0.8V	0.01+0.005	0.001+0.002
	300.0000A	<0.8V	0.02+0.005	0.001+0.002
Accuracy: ±(% of reading + % of range)				
Isolated DC Current Monitor Accuracy	Range	23°C±5°C (Half Year)		Temperature Coefficient / °C
	30.00000mA	0.1+0.05		0.001
	300.0000mA	0.1+0.05		0.001
	3.000000A	0.1+0.05		0.001
	30.00000A*	0.1+0.05		0.001
	300.0000A*	0.2+0.05		0.001
Accuracy: ±(% output + % of full scale); Monitor output voltage for the full scale current = 3V.				
AC Characteristics				
True RMS AC Voltage	Range	Frequency	23°C±5°C (Half Year)	Temperature Coefficient / °C
	200.0000mV			0.005+0.005
	2.000000V	45Hz – 2kHz	0.5+0.05	0.005+0.005
	2.000000V	2kHz – 10kHz	1.0+0.05	0.005+0.005
	200.0000V	10kHz – 20kHz	2.0+0.10	0.005+0.005
	600.000V			0.005+0.005
Accuracy: ±(% of reading + % of range)				
True RMS AC Current	Range	Frequency	23°C±5°C (Half Year)	Temperature Coefficient / °C
	30.00000mA			0.03+0.006
	300.0000mA	45Hz – 2kHz	0.5+0.05	0.03+0.006
	3.000000A	2kHz – 10kHz	1.0+0.05	0.03+0.006
	30.00000A			0.03+0.006
	300.0000A	45Hz – 400Hz	0.5+0.05	0.03+0.006
Accuracy: ±(% of reading + % of range)				
Isolated AC Current Monitor Accuracy **	Range	Frequency	23°C±5°C (Half Year)	Temperature Coefficient / °C
	30.00000mA			0.001
	300.0000mA	45Hz – 2kHz	0.2+0.05	0.001
	3.000000A	2kHz – 10kHz	0.5+0.05	0.001
	30.00000A*			0.001
	300.0000A*	45Hz – 400Hz	0.5+0.05	0.001
Accuracy: ±(% output + % of full scale); Monitor output voltage for the full scale current = 3V.				

General	
Power Supply	100 V / 120 V / 220 V / 240 V \pm 10%
Power Line Frequency	50/60Hz
Operating Environment	Full accuracy for 0°C to 50°C, Full accuracy to 80% R.H. at 40°C
Storage Environment	-40°C to 70°C
Power Consumption	Max 35VA
Dimensions & Weight	210 (W) x 80 (H) x 390 (D) mm; Approx. 5kg

*: For 30/300A range, a power coefficient (PCR) of 8ppm per watt of reading should be added.

** : The specifications are only applicable when the input is 10% or greater of the full scale range.