

PCS-1000I Specifications

The specifications apply when the PCS-1000I is powered on for at least 30 minutes under +20°C~+30°C.

PCS-1000I Specifications			
General			
Power Supply	100 V / 120 V / 220 V / 240 V ±10%		
Power Line Frequency	50/60 Hz		
Operating Environment	Full accuracy for 0 °C to 55 °C, Full accuracy to 80% R.H. at 40 °C		
Storage Environment	-40 °C to 70 °C		
Power Consumption	Max 35VA		
Dimensions	210 mm(W) * 80 mm(H) * 390mm(D)		
Weight	Approximately 5 kg		
DC Characteristics			
DC Voltage			
Range		1 Year 23 °C ± 5 °C	Temperature Coefficient/°C
200.0000 mV		0.0050 + 0.0035	0.0005 + 0.0005
2.000000 V		0.0050 + 0.0010	0.0005 + 0.0001
20.00000 V		0.0050 + 0.0010	0.0005 + 0.0001
200.0000 V		0.0050 + 0.0010	0.0005 + 0.0001
1000.000 V		0.0050 + 0.0020	0.0005 + 0.0001
Accuracy specification : ± (% of reading + % of range)			
Voltage input Resistance: 10MΩ for all DC Voltage ranges			
DC Current			
Range	Burden Voltage	1 Year 23 °C ± 5 °C	Temperature Coefficient/°C
30.00000 mA	<0.4 V	0.01 + 0.005	0.001 + 0.002
300.0000 mA	<0.5 V	0.01 + 0.005	0.001 + 0.002
3.000000 A	<0.8 V	0.01 + 0.005	0.001 + 0.002
30.00000 A*1	<0.8 V	0.01 + 0.005	0.001 + 0.002
300.0000 A*1	<0.8 V	0.02 + 0.005	0.001 + 0.002
Accuracy specification : ± (% of reading + % of range)			
Isolated DC Current Monitor Accuracy			
Range	Resolution (6 1/2)	DC Accuracy	Temperature Coefficient/°C
30.00000 mA	0.00001mA	0.1+0.05	0.001
300.0000 mA	0.0001mA	0.1+0.05	0.001
3.000000 A	0.000001A	0.1+0.05	0.001
30.00000 A*1	0.00001A	0.1+0.05	0.001
300.0000 A*1	0.0001A	0.2+0.05	0.001
Accuracy specification : ± (% of output + % of full scale)			
Monitor output voltage for the full scale current = 3V			
AC Characteristics			
True RMS AC Voltage			
Range	Frequency	1 Year 23 °C ± 5 °C	Temperature Coefficient/°C
200.0000 mV	45Hz - 2kHz	0.5 + 0.05	0.005 + 0.005
2.000000 V	2kHz - 10kHz	1.0 + 0.05	0.005 + 0.005
20.00000 V	10kHz - 20kHz	2.0 + 0.10	0.005 + 0.005

200.0000 V			0.005 + 0.005
600.000 V			0.005 + 0.005
Accuracy specification : \pm (% of reading + % of range)			
True RMS AC Current			
Range	Frequency	1 Year 23 °C \pm 5 °C	Temperature Coefficient/°C
30.00000 mA	45Hz - 2kHz	0.5 + 0.05	0.03 + 0.006
300.0000 mA			0.03 + 0.006
3.000000 A	2kHz - 10kHz	1.0 + 0.05	0.03 + 0.006
30.00000 A*1	45Hz - 400Hz	0.5 + 0.05	0.03 + 0.006
300.0000 A*1			0.03 + 0.006
Accuracy specification : \pm (% of reading + % of range)			
Isolated AC Current Monitor Accuracy			
Range	Frequency	AC Accuracy	Max Input Limit
30.00000 mA	45Hz - 2kHz	0.2 + 0.05	30 mA
300.0000 mA			300 mA
3.000000 A	2kHz - 10kHz	0.5 + 0.05	3 A
30.00000 A*1	45Hz - 400Hz	0.5 + 0.05	30 A
300.0000 A*1			300 A
Accuracy specification : \pm (% of output + % of full scale)			
Monitor output voltage for the full scale current = 3V			
The specifications are only applicable when the input is 10% or greater of the full scale range			

*1 The accuracy for 30A/300A levels must be increased by a power factor of 8 ppm/watt.

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