SPECIFICATIONS

Programmable DC Power Supply

MODEL : PT 100 - 2

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Parameter			Specifications	
Output rating(@0℃ ~ 40℃)	Voltage		0 to 100.0	Maximum 105.00
	Current		0 to 2.0	Maximum 2.10
Output WATT			0.2 KW	
Programming Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage		0.1% + 150.0mV	
	Current		0.1% + 6.0mA	
Readback Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage		0.1% + 100.0mV	
	Current		0.1% + 4.0mA	
Ripple and Noise(20Hz to 20MHz)			≤ 28mVrms	
Load Regulation (with V-Sensing)			≤ 100 mV	
Line Regulation (with V-Sensing)			≤ 100 mV	
Power Factor(full load)			≥ 0.98PF	
Resolution	Programming/Readback		≤ 1.7mV / ≤ 0.1mA	
	Display Meter		100mV / 1mA	
Temperature Coefficient After a 30-minute warm-up	Voltage		≤ 20.0mV	
	Current		≤ 0.6mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage		≤ 50.0mV	
	Current		≤ 1.0mA	
Voltage Programming Speed (10%~90% of output voltage)	Half load	Rising time	≤ 300ms	
		Falling time	≤ 300ms	
Remote Sensing Capability	Voltage Drop		Up to 2.5V per each lead	
	Load Regulation		Add 5 mV to spec for each 1-volt change in the + output lead due to load current changes	
	Load Voltage		Subtract voltage drop in load leads from specified output voltage ratiing.	
OVP and OCP Accuracy ±(%of output + offset)	OVP		1% + 1.0V	
	OCP		1% + 0.2A	
	Activation Time		< 80ms when maximum output rating	
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF		No overshoot, undershoot : ≤ -0.8V	
	Voltage Output Setting		No overshoot, No undershoot	
Remote Interface			RS232C , RS485	
Programming Language			SCPI(Standard Commands for Programmable Instruments)	
Command Processing Time(average)	Apply		Setting	20ms
			Query	32ms
	Output Setting		Voltage & Current Setting	15ms
			Voltage & Current Query	32ms
	Measurement		Voltage & Current Query	32ms
	The Other		Setting & Query	< 35ms
State Storage Memory			Ten user-configurable(voltage,current,protection level)stored states	
Operation Temperature			0℃ ~ 40℃ for full rated output. At higher temperatures the output current is derated linearly to 50% at 55℃ maximum temperature	
Cooling			Isolation DC FAN	
Output Terminal Isolated (maximum, from chassis ground)			±60 Vdc when connecting shorting conductors without insulation to the (+)output to the (+)sense and the (-)output and the (-)sense terminals	
AC Input Ratings	Standard		Single phase 110 ~ 220V ± 10% 50~60Hz	
Calibration Interval	Precision		6 month	
	Recommended		1 year	
Dimensions (19'' Standard)			70(W) * 125.5(H) * 380(D)	
Maximum Input Power(full load)			0.3 KW	
Weight	Net weight		3.2kg	
	Gross weight		4.2kg