SPECIFICATIONS Programmable DC Power Supply



MODEL : OPS-1002

Parameter			Specifications		
Volta			0 to 100		
Output rating(@0°C ~ 40°C)	Current		0 to 2		
Output WATT	Output WATT			200W	
Programming Accuracy	Voltage		0.05% + 40mV		
(@25℃ ±5℃)±(%of output + offset)	Current		0.15% + 5mA		
Readback Accuracy	Voltage		0.05% + 20mV		
25℃ ±5℃)±(%of output + offset) Current		0.08% + 3mA			
Ripple and Noise(20Hz to 20MHz)			≤ 0.01%mVrms		
	Current		≤ 3mArms		
Load Regulation (with V-Sensing)	Voltage		≤ 3mV		
	Current		$\leq 500\mu$ A		
Line Regulation (with V-Sensing)	Voltage		≤ 1mV < 500 //4		
	Current		$\leq 500\mu$ A		
Resolution	Programming/Readback		$\leq 1 \text{mV} / \leq 20 \mu \text{A}$		
	Display Meter		10mV / 100#A		
Temperature Coefficient \pm (%of output + offset)			0.01% + 15mV 0.02% + 3mA		
After a 30-minute warm-up	Current		0.02% + 3mA 0.02% + 10mV		
Stability \pm (% of output + offset)	Voltage		0.02% + 10mV 0.1% + 1mA		
er a 1 hour warm-up Current					
Transient Response Time			Less than 50 µs for output to recover to within 15mV following a change in output current from full load to half load or vice versa		
	Rising time		≤ 7.5 V/ms		
Voltage Programming Speed	No load	Falling time	≤ 3V/ms		
		Rising time	≤ 3.25V/ms ≤ 6V/ms		
	Half load	Falling time			
	Voltage Drop		Up to 1V per each lead		
Remote Sensing Capability	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		5% + 1V		
	OCP		5% + 0.2A		
	Activation Time		< 80ms when maximum output rating		
	Power Switch ON/OFF		No overshoot, undershoot : $\leq -0.8V$		
Output Voltage Overshoot & Undershoot	Voltage Output Setting		No overshoot, No undershoot		
Remote Interface			GPIB(IEEE-488.2) Option, RS232C Standard		
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,OVP & OCP level)stored states		
	Step(Voltage,Current,		Maximum 100 steps		
	Slope & Delay time)				
Cycling Mode	Slope time		0sec ~ 86,400sec (24 hours)		
	Delay time		100ms ~ 86,400sec(24 hours)		
	Repeat		Maximum 15milion times		
Operation Temperature		0° C ~ 40 °C for full rated output. At higher temperatures the output current is derated linearly to 50% at 55 °C maximum temperature			
Cooling				Isolation DC FAN	
Cooling					
Output Terminal Isolated (maximum, from chassis ground)			\pm 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		220V ± 10% 50~60Hz		
	Option		110V ± 10% 50~60Hz		
			115V ± 10% 50~60Hz		
Calibration Interval	Drasisian		230V ± 10% 50~60Hz		
	Precision		6 month		
	Recommended		1 year		
Dimensions (19-inch 3U Standard)	Excepted the bumper		213mm(W) * 133mm(H) * 394mm(D)		
	Included the bumper		226mm(W) * 147mm(H) * 394mm(D) 553W		
Maximum Input Power(full load) Net weight		553W 8.5kg			
Weight Gross weight			8.5kg 10kg		
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