SPECIFICATIONS Programmable DC Power Supply



MODEL : OPS-1001

Parameter			Specifications	
(2)	Voltage		0 to 100	
Output rating(@0℃ ~ 40℃)	Current		0 to 1	
Output WATT			100W	
Programming Accuracy	Voltage		0.05% + 40mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.15% + 5mA	
Readback Accuracy	ack Accuracy Voltage		0.05% + 20mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.08% + 3mA	
Ripple and Noise(20Hz to 20MHz)	Voltage		≤ 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 m	
	Current		$\leq 500\mu$ A	
Resolution	Programming/Readback		$\leq 1 \text{mV} / \leq 10 \mu \text{A}$	
	Display Meter		10mV / 100 <i>µ</i> 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			
After a 1 hour warm-up	Current		0.1% + 1mA	
Transient Response Time			Less than 50µs for output to recover to within 15mV following a change in output current from full load to half load or vice versa	
Voltage Programming Speed	No load Rising time		<pre>< 7.5V/ms</pre>	
	110 1040	Falling time	≤ 3V/ms	
	Half load	Rising time	≤ 3.25V/ms	
		Falling time	≤ 6V/ms	
Remote Sensing Capability	Voltage Drop		Up to 1V 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		5% + 1V 5% + 0.1A	
	Activation Time Power Switch ON/OFF		< 80ms when maximum output rating No overshoot, undershoot : < -0.8V	
Output Voltage Overshoot & Undershoot				3V
Voltage Output Setting Remote Interface		No overshoot, No undershoot 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 Measurement		Voltage & Current Setting	15ms
			Voltage & Current Query	32ms
			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,			
	Slope & Delay time)		Maximum 100 steps	
Cycling Mode	Slope time		0sec ~ 86,400sec (24 hours)	
	Delay time		100ms ~ 86,400sec(24 hours)	
	Repeat		Maximum 15milion times	
Operation Temperature			0° ~ 40° for full rated output. At higher temperatures the output current is derated linearly to 50% at 55°C maximum temperature	
Cooling			Isolation DC FAN	
			± 60 Vdc when connecting shorting conductors without insulation to the (+)output to the	
Output Terminal Isolated (maximum, from chassis ground)		(+)sense and the (-)output and the (-)sense terminals		
AC Input Ratings	Standard		$220V \pm 10\% 50 \sim 60Hz$ 110V + 10% 50~60Hz	
			110V ± 10% 50~60Hz	
			115V ± 10% 50~60Hz 230V ± 10% 50~60Hz	
Calibration Interval	Precision			
	Precision		6 month	
	Recommended		1 year 213mm(W) * 133mm(H) * 394mm(D)	
Dimensions (19-inch 3U Standard)	Excepted the bumper Included the bumper			
Included the bumper Maximum Input Power(full load)		226mm(W) * 147mm(H) * 394mm(D) 297W		
Naximum input Power(full load)			7kg	
Weight Gross weight			7 kg 8.5kg	
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