

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPS-3001



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Parameter		Specifications	
Output rating(@0℃ ~ 40℃)	Voltage	0 to 300V	
	Current	0 to 1A	
Output WATT		300W	
Programming Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.05%+100.0mV	
	Current	0.2%+1.0mA	
Readback Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.05%+50.0mV	
	Current	0.2%+0.5mA	
Ripple and Noise(20Hz to 20MHz)	Voltage	≤ 0.01%Vrms	
	Current	≤ 2mArms	
Load Regulation	Voltage	20.0mV	
	Current	0.1mA	
Line Regulation	Voltage	5.0mV	
	Current	0.1mA	
Resolution	Programming/Readback	≤2.50mV / ≤0.01mA	
	Display Meter	10mV / 0.1mA	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage	0.05%+30.0mV	
	Current	0.2%+0.5mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	0.05%+10.0mV	
	Current	0.2%+0.2mA	
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	≤ 7.5V/ms
		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 rating.
OVP and OCP Accuracy ±(%of output + offset)	OVP		5% + 0.5V
	OCP		5% + 0.5V
	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		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	
Cycling Mode	Step(Voltage,Current, Slope & Delay time)		Maximum 100 steps
	Slope time		0sec ~ 86,400sec (24 hours)
	Delay time		100ms ~ 86,400sec(24 hours)
	Repeat		Maximum 15million times
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 AC 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	220V ± 10% 50~60Hz	
		110V ± 10% 50~60Hz	
	Option	115V ± 10% 50~60Hz	
		230V ± 10% 50~60Hz	
Calibration Interval	Precision		6 month
	Recommended		1 year
Dimensions		300mm(W) * 150mm(H) * 465mm(D)	
Maximum Input Power(full load)		809.9W	
Weight	Net weight		16kg
	Gross weight		18kg

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