

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPS-5010



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Parameter		Specifications	
Output rating(@0°C ~ 40°C)	Voltage	0 to 50V	
	Current	0 to 10A	
Output WATT	500 W		
Programming Accuracy (@25°C ±5°C)±(%of output + offset)	Voltage	0.05% + 12mV	
	Current	0.2% + 10mA	
Readback Accuracy (@25°C ±5°C)±(%of output + offset)	Voltage	0.05% + 6mV	
	Current	0.15% + 5mA	
Ripple and Noise(20Hz to 20MHz)	Voltage	≤ 3mVp-p	
	Current	≤ 3mArms	
Load Regulation (with V-Sensing)	Voltage	≤ 2mV	
	Current	≤ 500μA	
Line Regulation (with V-Sensing)	Voltage	≤ 500μV	
	Current	≤ 1mA	
Resolution	Programming/Readback	≤ 500μV / ≤ 100μA	
	Display Meter	1mV / 1mA	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage	0.01% + 3mV	
	Current	0.02% + 3mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	0.02% + 1mV	
	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	≤ 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% + 1A	
	Activation Time	< 80ms when maximum output rating	
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF	No overshoot, undershoot : -0.8V ≤ volt < 0V	
	Voltage Output Setting	No overshoot, No undershoot	
Remote Interface	GPIO(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°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 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	Standard	426mm(W) * 177mm(H) * 505mm(D) 19-inch 4U Standard Size	
	Option	300mm(W) * 150mm(H) * 465mm(D) Non Standard Small Size	
Maximum Input Power(full load)	1323W		
Weight	Net weight	17kg	
	Gross weight	18.5kg	

