

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPM-2503D



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Parameter		Specifications	
Output rating(@0°C ~ 40°C)	Channel 1	0 to 250V / 0 to 3A	
	Channel 2	0 to 250V / 0 to 3A	
Output WATT	1500W		
Programming Accuracy (@25°C ±5°C)±(%of output + offset)	Voltage	0.05% + 85mV	
	Current	0.15% + 5mA	
Readback Accuracy (@25°C ±5°C)±(%of output + offset)	Voltage	0.05% + 45mV	
	Current	0.08% + 3mA	
Ripple and Noise(20Hz to 20MHz)	Voltage	≤ 0.01% mV_{rms}	
	Current	≤ 3 mA_{rms}	
Load Regulation (with V-Sensing)	Voltage	≤ 4mV	
	Current	≤ 500 μA	
Line Regulation (with V-Sensing)	Voltage	≤ 1mV	
	Current	≤ 500 μA	
Resolution	Programming/Readback	≤ 2.5mV / ≤ 30 μA	
	Display Meter	10mV / 100 μA	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage	0.01% + 30mV	
	Current	0.02% + 3mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	0.02% + 30mV	
	Current	0.1% + 1mA	
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		
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
OVP and OCP Accuracy ±(%of output + offset)	OVP	5% + 2.5V	
	OCP	5% + 0.3A	
	Activation Time	< 80ms when maximum output rating	
Tracking Accuracy	0.1% + 20mV		
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	28ms
		Query	32ms
	Output Setting	Voltage & Current Setting	28ms
		Voltage & Current Query	32ms
	Measurement	Voltage & Current Query	Present mode : 47ms Buffer mode : 32ms
The Other	Setting & Query	< 35ms	
State Storage Memory	Ten user-configurable(voltage,current,OVP & OCP level)stored states		
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 ating.	
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		
Output Terminal Isolated (maximum, from chassis ground)	±30V output is ±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	19-inch 4U Standard	426mm(W) * 177mm(H) * 505mm(D)	
Maximum Input Power(full load)	3890W		
Weight	Net weight	50kg	
	Gross weight	52kg	

