

## **SPECIFICATIONS**

## Programmable DC Power Supply

MODEL: OPM-503D



Parameter			Specifications		
Output rating(@0℃ ~ 40℃)	Channel 1 Channel 2		0 to 50V / 0 to 3A 0 to 50V / 0 to 3A		
l a sa		300W			
Output WATT Programming Accuracy Voltage					
(@25 $^{\circ}$ ±5 $^{\circ}$ )±(%of output + offset)	Voltage		0.05%+16.7mV		
Readback Accuracy	Current			0.2%+3.0mA	
(@25 $^{\circ}$ ±5 $^{\circ}$ )±(%of output + offset)	Voltage		0.05%+8.3mV 0.2%+1.5mA		
(@25 C ±5 C)±(%01 output + offset)	output + offset) Current  Voltage				
Ripple and Noise(20Hz to 20MHz)			≤ 3mVp−p		
	Current		≤ 2mArms 3.3mV		
Load Regulation	Voltage		0.3mA		
Line Regulation	Current		0.8mV		
	Voltage				
	Current Programming/Readback		0.3mA   ≤0.42mV / ≤0.03mA		
Resolution					
T	Display Meter		1mV / 0.1mA		
Femperature Coefficient ±(%of output + offset)		0.05%+5.0mV			
After a 30-minute warm-up	Current		0.2%+1.5mA		
Stability ±(%of output + offset)	Voltage		0.05%+1.7mV		
After a 1 hour warm-up	Current		0.2%+0.6mA		
Transient Response Time		Less than 50,4% 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 lood	Rising time	≤ 7.5V/ms		
	No load	Falling time	≤ 3V/ms		
	11-161	Rising time	≤ 3.25V/ms		
	Half load Falling time		≤ 6V/ms		
	OVP		5% + 0.5V		
OVP and OCP Accuracy $\pm$ (%of output + offset	OCP		5% + 0.5A		
	Activation Time		< 80ms when maximum output rating		
Tracking Accuracy		0.1% + 10mV			
Output Voltage Overshoot & Undershoot Power Switch ON/OFF Voltage Output Setting		No overshoot, undershoot : $\leq -0.8$	BV		
		utput 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)			Setting	28ms	
	Apply		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,cur	rent,OVP & OCP level)stored states		
	Voltage Drop		Up to 1V per each lead		
December Consider Consider			Add 5 mV to spec for each 1-volt change in the + output lead due to load current		
Remote Sensing Capability	Load Regulation		changes.		
	Load Voltage		Subtract voltage drop in load leads from specified output voltage atiing.		
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		
			±30V output is ±60 Vdc when connecting shorting conductors without insulation to the		
Output Terminal Isolated (maximum, from chassis ground)			(+)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		
	Procision		230V ± 10% 50~60Hz		
Calibration Interval	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)		
Maximum Input Power(full load)			849.9W		
Weight	Net weight		12.5kg		
	Gross weight		14kg		