

SPECIFICATIONS

Programmable DC Power Supply

MODEL: OPM-93D



Parameter		Specifications	
Channel 1		0 to 9V / 0 to 3A	
Output rating(@0°C ~ 40°C)	Channel 2	0 to 9V / 0 to 3A	
Output WATT		54W	
Programming Accuracy	Voltage	0.05% + 5mV	
(@25℃ ±5℃)±(%of output + offset)	Current	0.15% + 5mA	
Readback Accuracy	Voltage	0.05% + 2.5mV	
(@25℃ ±5℃)±(%of output + offset)	Current	0.08% + 3mA	
	Voltage	≤ 2mVp-p	
Ripple and Noise(20Hz to 20MHz)	Current	≤ 2mArms	
Load Regulation (with V-Sensing) Line Regulation (with V-Sensing)	Voltage	≤ 2mV	
	Current	≤ 500 µA	
	Voltage	≤ 500 µV	
	Current	_ = 500 µA	
	Programming/Readback	≤ 80μV / ≤ 30μA	
Resolution	Display Meter	1mV / 100#A	
Temperature Coefficient \pm (%of output + offset)		0.01% + 3mV	
After a 30-minute warm-up	Current	0.02% + 3mA	
Stability ±(%of output + offset)	Voltage	0.02% + 1mV	
After a 1 hour warm-up	Current	0.1% + 1mA	
Transient Response Time	Current	Less than 50//s 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 \pm (%of output + offset)	OVP	5% + 0.1V	
	OCP	5% + 0.3A	
	Activation Time	< 80ms when maximum output rating	
Tracking Accuracy		0.1% + 1mV	
Output Voltage Overshoot & Undershoot Power Switch ON/OFF Voltage Output Setting		No overshoot, undershoot : ≤ -0.8V	
		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 of GPIB Interface)	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	
	Voltage Drop	Up to 1V per each lead	
Remote Sensing Capability	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 atiing.	
Operation Temperature		$0^\circ\!$	
Cooling		Isolation DC FAN	
Output Terminal Isolated (maximum, from chassis ground)		± 30 V 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	
	Excepted the bumper	213mm(W) * 133mm(H) * 420mm(D)	
Dimensions (19-inch 3U Standard)			
Mauriceum Innut Dougs/f::!!!!\	Included the bumper	226mm(W) * 147mm(H) * 420mm(D)	
Maximum Input Power(full load)		179W	
Weight	Net weight Gross weight	6kg	
1		7kg	