SPECIFICATIONS Programmable DC Power Supply



MODEL: OPM-181D

Parameter			Specifications	
Output rating(@0°C ~ 40°C)	Channel 1		0 to 18V / 0 to 1A	
	Channel 2		0 to 18V / 0 to 1A	
Output WATT		36W		
Programming Accuracy	Voltage		0.05%+6.0mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.2%+1.0mA	
Readback Accuracy	Voltage		0.05%+3.0mV	
(@25℃ ±5℃)±(%of output + offset)	±(%of output + offset) Current		0.2%+0.5mA	
Ripple and Naiss (20Hz to 20MHz)	Voltage		≤ 2mVp−p	
Ripple and Noise(20Hz to 20MHz)	Current		≤ 2mArms	
Lood Regulation	Voltage		1.2mV	
Load Regulation	Current		0.1mA	
Line Regulation	Voltage		0.3mV	
	Current		0.1mA	
	Programming/Readback		≤0.15mV / ≤0.01mA	
Resolution	Display Meter		1mV / 0.1mA	
Temperature Coefficient ±(%of output + offset)Voltage		0.05%+1.8mV	
After a 30-minute warm-up	-up Current		0.2%+0.5mA	
Stability ±(%of output + offset)	Voltage		0.05%+0.6mV	
After a 1 hour warm-up	Current		0.2%+0.2mA	
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		Rising time	≤ 7.5V/ms	
	No load	Falling time	≤ 3V/ms	
		Rising time	≤ 3.25V/ms	
	Half load	Falling time	≤ 6V/ms	
	OVP		5% + 0.5V	
OVP and OCP Accuracy ±(%of output + offset			5% + 0.5A	
	Activation Time		< 80ms when maximum output rating	
Tracking Accuracy		0.1% + 10mV		
Power Switch ON/OFF		tch ON/OFF	No overshoot, undershoot : ≤ -0.8V	
Output Voltage Overshoot & Undershoot	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 Measurement		Voltage & Current Setting	28ms
			Voltage & Current Query	32ms
			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		
Voltag		qo	Up to 1V per each lead	
			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.	
			0° C ~ 40° C for full rated output. At higher temperatures the output current is derated	
Operation Temperature		linearly to 50% at 55°C maximum	o , , , , , , , , , , , , , , , , , , ,	
Cooling			Isolation DC FAN	
			\pm 30V output is \pm 60 Vdc when connecting shorting conductors without insulation to the	
Output Terminal Isolated (maximum, from chas	sis ground)			(-)output and the (-)sense terminals
AC Input Ratings	Standard		220V ± 10% 50~60Hz	
	Option		110V ± 10% 50~60Hz	
			$115V \pm 10\% 50 \sim 60Hz$	
			230V ± 10% 50~60Hz	
Calibration Interval			6 month	
	Recommended		1 year	
			213mm(W) * 133mm(H) * 394mm(D)	
Dimensions (19-inch 3U Standard)	Included the bumper		226mm(W) * 147mm(H) * 394mm(D)	
Maximum Input Power(full load)			172.4W	
Net w			9kg	
Weight	Gross weight		10.5kg	
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