SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPM-1002D

ODA TECHNOLOGIES
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Parameter			Specifications	
Output rating(@0℃ ~ 40℃)	Channel 1		0 to 100V / 0 to 2A	
	Channel 2		0 to 100V / 0 to 2A	
Output WATT			400W	
Programming Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage		0.05%+33.3mV	
	Current		0.2%+2.0mA	
Readback Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage		0.05%+16.7mV	
	Current		0.2%+1.0mA	
Ripple and Noise(20Hz to 20MHz)	Voltage		≤ 0.01%mVrms	
	Current		≤ 2mArms	
Load Regulation	Voltage		6.7mV	
	Current		0.2mA	
Line Regulation	Voltage		1.7mV	
	Current		0.2mA	
Resolution	Programming/Readback		≤0.83mV / ≤0.02mA	
	Display Meter		10mV / 0.1mA	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage		0.05%+10.0mV	
	Current		0.2%+1.0mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage		0.05%+3.3mV	
	Current		0.2%+0.4mA	
Transient Response Time			Less than 50㎲ 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/㎳	
		Falling time	≤ 3V/㎳	
	Half load	Rising time	≤ 3.25V/㎳	
		Falling time	≤ 6V/㎳	
OVP and OCP Accuracy ±(%of output + offset)	OVP		5% + 0.5V	
	OCP		5% + 0.5A	
	Activation Time		< 80ms when maximum output rating	
Tracking Accuracy			0.1% + 10mV	
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 Load Regulation		Up to 1V per each lead 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℃ ~ 40℃ for full rated output. At higher temperatures the output current is derated linearly to 50% at 55℃ maximum temperature	
Cooling			Isolation AC 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	
	Option		110V ± 10% 50~60Hz	
			115V ± 10% 50~60Hz	
			230V ± 10% 50~60Hz	
Calibration Interval	Precision		6 month	
	Recommended		1 year	
Dimensions			300mm(W) * 150mm(H) * 465mm(D)	
Maximum Input Power(full load)			1106.6W	
Weight	Net weight		18㎏	
	Gross weight		19.5㎏	

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