SPECIFICATIONS
Programmable DC Power Supply
MODEL : OPM-505D

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Parameter			Specifications		
Output rating(@0℃ ~ 40℃)	Channel 1		0 to 50V / 0 to 5A		
	Channel 2		0 to 50V / 0 to 5A		
Output WATT			500W		
Programming Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage		0.05%+16.7mV		
	Current		0.2%+5.0mA		
Readback Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage		0.05%+8.3mV		
	Current		0.2%+2.5mA		
Ripple and Noise(20Hz to 20MHz)	Voltage		≤ 3mVp-p		
	Current		≤ 2mArms		
Load Regulation	Voltage		3.3mV		
	Current		0.5mA		
Line Regulation	Voltage		0.8mV		
	Current		0.5mA		
Resolution	Programming/Readback		≤0.42mV / ≤0.05mA		
	Display Meter		1mV / 0.1mA		
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage		0.05%+5.0mV		
	Current		0.2%+2.5mA		
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage		0.05%+1.7mV		
	Current		0.2%+1.0mA		
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		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 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)			1363.2W		
Weight	Net weight		19㎏		
	Gross weight		20.5㎏		

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