

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPE-5020S



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Parameter		Specifications	
Output rating(@0℃ ~ 40℃)		0 to 50V / 0 to 20A	
Output WATT		1.0 KW	
Programming Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.2% + 300mV	
	Current	0.2% + 100mA	
Readback Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.2% + 300mV	
	Current	0.2% + 100mA	
Ripple and Noise(20Hz to 20MHz)	Voltage	≤ 3mVp-p	
	Current	≤ 3mArms	
Load Regulation (@25℃ ±5℃)±(%of output + offset)	Voltage	0.01% + 2mV	
	Current	0.01% + 2mA	
Line Regulation (@25℃ ±5℃)±(%of output + offset)	Voltage	0.01% + 2mV	
	Current	0.01% + 2mA	
Resolution	Programming/Readback	≤ 15mV / ≤ 5mA	
	Display Meter	100mV / 100mA	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage	0.02% + 2mV	
	Current	0.05% + 8mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	0.1% + 5mV	
	Current	0.2% + 8mA	
Transient Response Time		Less than 50μs for output to recover to within 50mV following a change in output current from full load to half load or vice versa	
Voltage Programming Speed (10% ~ 90%)	No load	Rising time	≤ 120ms
		Falling time	≤ 3.6s
	Half load	Rising time	≤ 120ms
		Falling time	≤ 15ms
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF	No overshoot, undershoot : ≤0V ~ ≥ -0.3V	
	Voltage Output Setting	No overshoot, No undershoot	
Remote Interface		RS232C Standard (RS485 Option)	
Programming Language		SCPI(Standard Commands for Programmable Instruments)	
Command Processing Average Time (@19200bps)	Output Setting	Voltage & Current Setting	10ms
		Voltage & Current Query	12ms
	Measurement	Voltage & Current Query	15ms
	The Other	Setting & Query	32ms
State Storage Memory		Five user-configurable(voltage,current)stored states	
Operation Temperature Range		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	100V ± 10% 50~60Hz	
		230V ± 10% 50~60Hz	
Calibration Interval	Recommended	1 year	
Dimensions (19-inch compatible)		426mm(W) * 177mm(H) * 505mm(D)	
Maximum Input Power(full load)		2606.4W	
Weight	Net weight	45kg	
	Gross weight	48kg	

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