

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPE-3001S



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Parameter		Specifications	
Output rating(@0℃ ~ 40℃)		0 to 300V / 0 to 1A	
Output WATT		300W	
Programming Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.2%+2000.0mV	
	Current	0.2%+5.0mA	
Readback Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.2%+2000.0mV	
	Current	0.2%+5.0mA	
Ripple and Noise(20Hz to 20MHz)	Voltage	≤ 0.01% mV_{rms}	
	Current	≤ 3 mA_{rms}	
Load Regulation (@25℃ ±5℃)±(%of output + offset)	Voltage	0.01%+40.0mV	
	Current	0.01%+0.1mA	
Line Regulation (@25℃ ±5℃)±(%of output + offset)	Voltage	0.01%+40.0mV	
	Current	0.01%+0.1mA	
Resolution	Programming/Readback	≤75.0mV / ≤0.4mA	
	Display Meter	1V(3-DIGIT) / 10mA(3-DIGIT)	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage	0.02%+40.0mV	
	Current	0.05%+0.4mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	0.1%+50.0mV	
	Current	0.2%+0.5mA	
Transient Response Time		Less than 50 μs 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	
		100V ± 10% 50~60Hz	
	Option	230V ± 10% 50~60Hz	
Calibration Interval	Recommended	1 year	
Dimensions		300mm(W) * 150mm(H) * 465mm(D)	
Maximum Input Power(full load)		809.9W	
Weight	Net weight	15kg	
	Gross weight	16.5kg	

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