

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPE-3010S



ODA

TECHNOLOGIES
www.odacore.com

Parameter		Specifications	
Output rating(@0°C ~ 40°C)		0 to 30V / 0 to 10A	
Output WATT		300W	
Programming Accuracy (@25°C ±5°C)±(%of output + offset)	Voltage	0.2% + 200mV	
	Current	0.2% + 50mA	
Readback Accuracy (@25°C ±5°C)±(%of output + offset)	Voltage	0.2% + 200mV	
	Current	0.2% + 50mA	
Ripple and Noise(20Hz to 20MHz)	Voltage	≤ 2mVp-p	
	Current	≤ 3mArms	
Load Regulation (@25°C ±5°C)±(%of output + offset)	Voltage	0.01% + 4mV	
	Current	0.01% + 1mA	
Line Regulation (@25°C ±5°C)±(%of output + offset)	Voltage	0.01% + 4mV	
	Current	0.01% + 1mA	
Resolution	Programming/Readback	≤ 7.5mV / ≤ 4mA	
	Display Meter	100mV(3-DIGIT) / 100mA(3-DIGIT)	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage	0.02% + 4mV	
	Current	0.05% + 4mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	0.1% + 5mV	
	Current	0.2% + 5mA	
Transient Response Time		Less than 50 μ s 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
State Storage Memory		Five user-configurable(voltage,current)stored states	
Operation Temperature Range		0°C ~ 40°C for full rated output. At higher temperatures the output current is derated linearly to 50% at 55°C maximum temperature	
Cooling		Isolation DC 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 (19-inch Half 2U Standard , not include output terminal)		213mm(W) * 88mm(H) * 290mm(D)	
Maximum Input Power(full load)		809.9W	
Weight	Net weight	7.5kg	
	Gross weight	8.7kg	