SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPS-950

ODA TECHNOLOGIES
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Parameter			Specifications	
Output rating(@0℃ ~ 40℃)	Voltage		0 to 9	
	Current		0 to 50	
Output WATT			450W	
Programming Accuracy	Voltage		0.05% + 3mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.2% + 10mA	
Readback Accuracy	Voltage		0.05% + 1.5mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.15% + 5mA	
Ripple and Noise(20Hz to 20MHz)	Voltage		≤ 3mVp-p	
	Current		≤ 4mArms	
Load Regulation (with V-Sensing)	Voltage		≤ 3mV	
	Current		≤ 500㎂	
Line Regulation (with V-Sensing)	Voltage		≤ 500㎶	
	Current		≤ 1mA	
Resolution	Programming/Readback		≤ 100㎶ / ≤ 380㎂	
	Display Meter		1mV / 1mA	
Temperature Coefficient ±(%of output + offset)	Voltage		0.01% + 3mV	
After a 30-minute warm-up	Current		0.02% + 10mA	
Stability ±(%of output + offset)	Voltage		0.02% + 1mV	
After a 1 hour warm-up	Current		0.1% + 5mA	
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/㎳	
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 ratiing.	
OVP and OCP Accuracy ±(%of output + offset)	OVP		5% + 0.1V	
	OCP		5% + 5A	
	Activation Time		< 80ms when maximum output rating	
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	20ms
			Query	32ms
	Output Setting		Voltage & Current Setting	15ms
			Voltage & Current Query	32ms
	Measurement		Voltage & Current Query	32ms
	The Other		Setting & Query	< 35ms
State Storage Memory			Ten user-configurable(voltage,current,OVP & OCP level)stored states	
Cycling Mode	Step(Voltage,Current, Slope & Delay time)		Maximum 100 steps	
	Slope time		0sec ~ 86,400sec (24 hours)	
	Delay time		100ms ~ 86,400sec(24 hours)	
	Repeat		Maximum 15milion times	
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 DC FAN	
Output Terminal Isolated (maximum, from chassis ground)			±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	
	19-inch 4U Standard		426mm(W) * 177mm(H) * 505mm(D)	
Maximum Input Power(full load)			1195W	
Weight	Net weight		15㎏	
	Gross weight		16.5㎏	

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OPS Series
PROTECTION
OVP
OCP
I/O CONFIG
LOCAL
LOCK
STORE
RECALL
OUTPUT
ON/OFF
STEP
SEQUENCE
REPEAT
RUN
STOP
ERROR
ESC
CYCLING MODE
POWER
OUTPUT
+S
-S