SPECIFICATIONS Programmable DC Power Supply



MODEL: OPS-305

Parameter			Specifications	
Voltage		0 to 30		
Output rating(@0℃ ~ 40℃)	Current		0 to 5	
Output WATT			150W	
Programming Accuracy	Voltage		0.05% + 10mV	
(@25°C ±5°C)±(%of output + offset)			0.15% + 5mA	
Readback Accuracy	Voltage		0.05% + 5mV	
(@25℃ ±5℃)±(%of output + offset) Current			0.08% + 3mA	
Ripple and Noise(20Hz to 20MHz)	Voltage		≤ 2mVp−p	
	Current		≤ 2mArms	
Load Regulation (with V-Sensing)	Voltage		≤ 2mV	
	Current		≤ 500 <i>µ</i> A	
Line Regulation (with V-Sensing)	Voltage		≤ 500 ℓV	
	Current		≤ 500 μA	
Resolution	Programming/Readback		$\leq 250\mu$ / $\leq 50\mu$ A	
	Display Meter		1mV / 100µA	
Temperature Coefficient ±(%of output + offset)			0.01% + 3mV	
After a 30-minute warm-up	Current		0.02% + 3mA	
Stability ±(%of output + offset)	Voltage		0.02% + 1mV	
After a 1 hour warm-up	Current		0.1% + 1mA	
Transient Response Time			Less than 50µs 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	$\leq 7.5 V/ms$	
	No load	Falling time	≤ 3V/ms	
	Half load	Rising time	≤ 3.25V/ms	
		Falling time	≤ 6V/ms	
Remote Sensing Capability	Voltage Drop		Up to 1V per each lead	
	Load Regulation		Add 5 mV to spec for each 1-volt c	hange 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% + 0.3V	
			5% + 0.5A	
	Activation Time		< 80ms when maximum output rating	
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF		No overshoot, undershoot : $\leq -0.8^{\circ}$	V
Voltage Outp		itput Setting	No overshoot, No undershoot	
Remote Interface			GPIB(IEEE-488.2) Option, RS232C Standard	
Programming Language Command Processing Time(average)	1		SCPI(Standard Commands for Prog	
	Apply Output Setting Measurement		Setting	20ms
			Query Voltage & Current Setting	32ms 15ms
				32ms
			Voltage & Current Query Voltage & Current Query	32ms
	The Other		Setting & Query	< 35ms
State Storage Memory	1		Ten user-configurable(voltage,current,OVP & OCP level)stored states	
	Step(Volta)	ge,Current,	Ten user connigurable(voltage,current,OVF & OCF level/Stored States	
	Slope & Delay time)		Maximum 100 steps	
Cycling Mode	Slope time		0sec ~ 86,400sec (24 hours)	
	Delay time		100ms ~ 86.400sec(24 hours)	
	Repeat		Maximum 15milion times	
Operation Temperature		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)			±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	
	1 ·		110V ± 10% 50~60Hz	
			115V ± 10% 50~60Hz 230V ± 10% 50~60Hz	
	Procision		230V ± 10% 50~60Hz	
Calibration Interval			6 month	
	Recommended		1 year 212mm(W) + 122mm(U) + 204mm(D)	
Dimensions (19-inch 3U Standard)	Excepted the bumper		213mm(W) * 133mm(H) * 394mm(D)	
	Included the bumper		226mm(W) * 147mm(H) * 394mm(D)	
Maximum Input Power(full load)			425W	
Weight			7.8kg 9.3kg	
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