

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPS-30100



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Parameter		Specifications	
Output rating(@0℃ ~ 40℃)	Voltage	0 to 30	
	Current	0 to 100	
Output WATT		3.0KW	
Programming Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.05% + 25mV	
	Current	0.1% + 100mA	
Readback Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.05% + 20mV	
	Current	0.1% + 75mA	
Ripple and Noise(20Hz to 20MHz)	Voltage	≤ 10mVp-p	
	Current	≤ 10mArms	
Load Regulation (with V-Sensing)	Voltage	≤ 10mV	
	Current	≤ 1mA	
Line Regulation (with V-Sensing)	Voltage	≤ 10mV	
	Current	≤ 1mA	
Resolution	Programming/Readback	≤ 250μV / ≤ 1.5mA	
	Display Meter	10mV(4-Digit) / 100mA(4-Digit)	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage	0.01% + 3mV	
	Current	0.02% + 6mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	0.02% + 1mV	
	Current	0.1% + 2mA	
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	≤ 2V/ms
		Falling time	≤ 1V/ms
	Half load	Rising time	≤ 1V/ms
		Falling time	≤ 3V/ms
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 rating.
OVP and OCP Accuracy ±(%of output + offset)	OVP		5% + 0.3V
	OCP		5% + 10A
	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		GPIO(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 15million 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 AC FAN & 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	단상 220V ± 10% 50~60Hz	
		3상 380V ± 10% 50~60Hz	
	Option	단상 100V ± 10% 50~60Hz	
		단상 230V ± 10% 50~60Hz	
Calibration Interval	Precision		6 month
	Recommended		1 year
Dimensions (19-inch 6U Standard)		426mm(W) * 356mm(H) * 650mm(D)	
Maximum Input Power(full load)		7739W	
Weight	Net weight		100kg
	Gross weight		103kg

*상기모델은 사용자 Application에 최적화하기위해 예고없이 사양변경될 수 있으므로 구입전 확인하시기 바랍니다.