

## **SPECIFICATIONS**

## Programmable DC Power Supply

MODEL: OPS-301



Parameter			Specifications
Output rating(@0°C ~ 40°C)	voltage (@0℃ ~ 40℃)		0 to 30
0.1.1.1.1.1.1.1	Current		0 to 1
Output WATT			30W
Programming Accuracy	Voltage		0.05% + 10mV
(@25℃ ±5℃)±(%of output + offset)	Current		0.15% + 5mA
Readback Accuracy	Voltage		0.05% + 5mV
(@25℃ ±5℃)±(%of output + offset)	°C ±5°C)±(%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
Load Hegulation(with V Gensing)	Current		500 <i>µ</i> A
Line Degulation (with V-Sensing)	Voltage		500 <u>W</u>
Line Regulation(with V-Sensing)	Current		500 <i>µ</i> A
Desclution	Programming/Readback		≤ 250 µV / ≤ 10 µA
Resolution Disp		eter	1mV / 100 <i>µ</i> A
Temperature Coefficient ±(%of output + offset) Voltage			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
	1		Less than 50 \(\mu \) for output to recover to within 15mV following a change in output current
Transient Response Time			from full load to half load or vice versa
	Ι	Rising time	≤ 7.5V/ms
Voltage Programming Speed	No load		≤ 3V/ms
		Falling time	≤ 3,25V/ms
	Half load	Rising time	· · · · · · · · · · · · · · · · · · ·
	V II D	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 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 $\pm$ (%of output + offset)	OVP		5% + 0.5V
			5% + 0.5V
	Activation Time		< 80ms when maximum output rating
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF		No overshoot, undershoot : ≤ -0.8V
Salpat vertage everencet a enderencet	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
	Арріу		Query 32ms
	0		Voltage & Current Setting 15ms
	Output Set	uing	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
- ,	Step(Voltage, Current,		
	Slope & Delay time)		Maximum 100 steps
Cycling Mode	Slope & Delay time)		0sec ~ 86,400sec (24 hours)
	Delay time		100ms ~ 86,400sec(24 hours)
l	Repeat		Maximum 15milion times
	12000.		
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
	Option		110V ± 10% 50~60Hz
, to input natingo			115V ± 10% 50~60Hz
			230V ± 10% 50~60Hz
Calibration Interval	Precision		6 month
Calibration Interval	Recommended		1 year
01 1 (10 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Excepted the bumper		213mm(W) * 133mm(H) * 394mm(D)
Dimensions (19-inch 3U Standard)	Included the bumper		226mm(W) * 147mm(H) * 394mm(D)
Maximum Input Power(full load)	The state of the s		117W
Net weight		<u> </u>	5kg
Weight	<u> </u>		6.5kg
1	Gross weight		U.O''®