SPECIFICATIONS Programmable DC Power Supply



MODEL: OPS-1810

Parameter			Specifications		
Dutput rating(@0℃~40℃)		0 to 18			
	Current		0 to 10		
Output WATT			180W		
Programming Accuracy	Voltage		0.05% + 5mV		
(@25℃ ±5℃)±(%of output + offset)	Current		0.2% + 10mA		
Readback Accuracy	Voltage		0.05% + 2.5mV		
@25°C ±5°C)±(%of output + offset) Current			0.15% + 5mA		
Displa and Naisa (2011, to 2011, 1)	Voltage		≤ 2mVp-p		
Ripple and Noise(20Hz to 20MHz)	Current		≤ 2mArms		
	Voltage		2mV		
Load Regulation	Current		500 <i>µ</i> A		
Line Regulation	Voltage		لا <i>م</i> ر 500		
	Current		1mA		
	Programming/Readback		$\leq 150 \mu V$ / $\leq 100 \mu A$		
Resolution Display Meter		eter	1mV / 1mA		
mperature 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		
		Less than 50 µs for output to recover to within 15mV following a change in output curren			
Transient Response Time			from full load to half load or vice versa		
		Rising time	$\leq 7.5 \text{V/ms}$		
Voltage Programming Speed	No load	Falling time	≤ 7.5V/ms ≤ 3V/ms		
		-	≤ 3.25V/ms		
	Half load	Rising time	≤ 6V/ms		
	Valta a Da	Falling time	,		
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 Subtract voltage drop in load leads from specified output voltage ratiing.		
	Load Voltage			s from specified output voltage ratiing.	
	OVP		5% + 0.5V		
OVP and OCP Accuracy \pm (%of output + offse			5% + 0.5V		
	Activation Time		< 80ms when maximum output rating		
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF		No overshoot, undershoot : $\leq -0.8V$		
Voltage Output Setting		No overshoot, No undershoot			
Remote Interface			GPIB(IEEE-488.2) Option, RS232	C Standard	
Programming Language			SCPI(Standard Commands for Pro	grammable 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		
	Step(Voltage,Current,		Maximum 100 steps		
	Slope & Delay time)				
Cycling Mode	Slope time		0sec ~ 86,400sec (24 hours)		
	Delay time		100ms ~ 86,400sec(24 hours)		
	Repeat		Maximum 15milion times		
				t higher temperatures the output current is derated	
Operation Temperature			linearly to 50% at 55°C maximum temperature		
Cooling			Isolation DC FAN		
			± 60 Vdc when connecting shorting conductors without insulation to the (+)output to the		
Output Terminal Isolated (maximum, from chassis ground)			(+)sense and the (-)output and th		
AC Input Ratings	Standard		220V ± 10% 50~60Hz 110V ± 10% 50~60Hz		
	Onting				
	Option		115V ± 10% 50~60Hz		
			230V ± 10% 50~60Hz		
	Precision		6 month		
Calibration Interval	Recommended		1 year		
Calibration Interval	Recomme			236mm(W) * 138mm(H) * 390mm(D)	
		the bumper	236mm(W) <u>*</u> 138mm(H) * 390mm((D)	
Calibration Interval Dimensions (19-inch 3U Standard)		he bumper	236mm(W) * 138mm(H) * 390mm(243.6mm(W) * 152mm(H) * 396m		
	Excepted	he bumper			
Dimensions (19-inch 3U Standard)	Excepted	he bumper he bumper	243.6mm(W) * 152mm(H) * 396m		