

## **SPECIFICATIONS**

## Programmable DC Power Supply

MODEL: OPM-183D



Parameter			Specifications		
Output rating(@0℃ ~ 40℃)	Channel 1 Channel 2		0 to 18V / 0 to 3A 0 to 18V / 0 to 3A		
l a sa		0 to 18V / 0 to 3A			
Output WATT Programming Accuracy Voltage					
(@25 $^{\circ}$ ±5 $^{\circ}$ )±(%of output + offset)	Voltage		0.05%+6.0mV		
Readback Accuracy	Current			0.2%+3.0mA	
(@25 $^{\circ}$ ±5 $^{\circ}$ )±(%of output + offset)	Voltage		0.05%+3.0mV		
(@25 C ±5 C)±(%01 output + onset)	Current		0.2%+1.5mA		
Ripple and Noise(20Hz to 20MHz)			≤ 2mVp−p		
	Current		≤ 2mArms 1.2mV		
Load Regulation	Voltage		0.3mA		
Line Regulation	Current		0.3mV		
	Voltage				
	Current Programming/Readback		0.3mA   ≤0.15mV / ≤0.03mA		
Resolution					
T	Display Meter		1mV / 0.1mA 0.05%+1.8mV		
emperature Coefficient ±(%of output + offset) Voltage					
After a 30-minute warm-up	Current		0.2%+1.5mA		
Stability ±(%of output + offset)	Voltage		0.05%+0.6mV		
After a 1 hour warm-up	Current		0.2%+0.6mA		
Transient Response Time		Less than 50,65 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/ms		
	INO IOau	Falling time	≤ 3V/ms		
	11-161	Rising time	≤ 3.25V/ms		
	Half load Falling time		≤ 6V/ms		
	OVP		5% + 0.5V		
OVP and OCP Accuracy $\pm$ (%of output + offset	OCP		5% + 0.5A		
	Activation Time		< 80ms when maximum output rating		
Tracking Accuracy		0.1% + 10mV			
Power Switch ON/OFF		No overshoot, undershoot : ≤ -0.8V			
Output Voltage Overshoot & Undershoot 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	28ms	
			Query	32ms	
	Output Setting		Voltage & Current Setting	28ms	
			Voltage & Current Query	32ms	
	Measurement		Voltage & Current Query	Present mode: 47ms Buffer mode: 32ms	
	The Other		Setting & Query	< 35ms	
State Storage Memory		Ten user-configurable(voltage,current,OVP & OCP level)stored states			
	Voltage Drop		Up to 1V per each lead		
			Add 5 mV to spec for each 1-volt change in the + output lead due to load current		
Remote Sensing Capability	Load Regulation		changes.		
	Load Voltage		Subtract voltage drop in load leads	s from specified output voltage atiing.	
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		
•			±30V output is ±60 Vdc when connecting shorting conductors without insulation to the		
Output Terminal Isolated (maximum, from chassis ground)			(+)output to the (+)sense and the (-)output and the (-)sense terminals		
	Standard		220V ± 10% 50~60Hz		
AC Input Ratings	Option		110V ± 10% 50~60Hz		
			115V ± 10% 50~60Hz		
	Procinion		230V ± 10% 50~60Hz		
Calibration Interval	Precision		6 month		
	Recommended		1 year		
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)		357.2W			
Weight Net weight		10kg			
Gross weight		ght	11.5kg		