SPECIFICATIONS
Programmable DC Power Supply
MODEL : OPM-303D

ODA TECHNOLOGIES
www.odacore.com

Parameter			Specifications		
Output rating(@0℃ ~ 40℃)	Channel 1		0 to 30V / 0 to 3A		
	Channel 2		0 to 30V / 0 to 3A		
Output WATT			180W		
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)	Current		0.08% + 3mA		
Ripple and Noise(20Hz to 20MHz)	Voltage		≤ 2mVp-p		
	Current		≤ 2mArms		
Load Regulation (with V-Sensing)	Voltage		≤ 2mV		
	Current		≤ 500μA		
Line Regulation (with V-Sensing)	Voltage		≤ 500μV		
	Current		≤ 500μA		
Resolution	Programming/Readback		≤ 250μV / ≤ 30μA		
	Display Meter		1mV / 100μA		
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		
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	≤ 7.5V/ms		
		Falling time	≤ 3V/ms		
	Half load	Rising time	≤ 3.25V/ms		
		Falling time	≤ 6V/ms		
OVP and OCP Accuracy ±(%of output + offset)	OVP		5% + 0.3V		
	OCP		5% + 0.3A		
	Activation Time		< 80ms when maximum output rating		
Tracking Accuracy			0.1% + 3mV		
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF		No overshoot, undershoot : ≤ -0.8V		
	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		
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 atiing.		
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 DC FAN		
Output Terminal Isolated (maximum, from chassis ground)			±30V output is ±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		
			115V ± 10% 50~60Hz		
			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)			502W		
Weight	Net weight		8.2kg		
	Gross weight		9.7kg		