## SPECIFICATIONS Programmable DC Power Supply



## MODEL: OPM-305D

Parameter			Specifications	
	Channel 1		0 to 30V / 0 to 5A	
Output rating(@0°C ~ 40°C)			0 to 30V / 0 to 5A	
Output WATT		300W		
Programming Accuracy	Voltage		0.05%+10.0mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.2%+5.0mA	
Readback Accuracy	Voltage		0.05%+5.0mV	
$(@25^{\circ} \pm 5^{\circ}) \pm (\% \text{ of output + offset})$			0.2%+2.5mA	
	Voltage		≤ 2mVp-p	
Ripple and Noise(20Hz to 20MHz)	Current		≤ 2mArms	
	Voltage		2.0mV	
Load Regulation	Current		0.5mA	
Line Regulation	Voltage		0.5mV	
	Current		0.5mA	
	Programming/Readback		≤0.25mV / ≤0.05mA	
Resolution	Display Meter		1mV / 0.1mA	
nperature Coefficient ±(%of output + offset) Voltage		0.05%+3.0mV		
After a 30-minute warm-up			0.2%+2.5mA	
Stability ±(%of output + offset)	Voltage		0.05%+1.0mV	
After a 1 hour warm-up	Current		0.2%+1.0mA	
Fransient Response Time		Less than 50 µs for output to recover to within 15mV following a change in output current from full load to half load or vice versa		
	Picing time		≤ 7,5V/ms	
Voltage Programming Speed	No load	Rising time Falling time	≤ 3V/ms	
		-	≤ 3.25V/ms	
	Half load		≤ 5.25V/ms	
	Falling time		5% + 0.5V	
OVP and OCP Accuracy $\pm$ (%of output + offset			5% + 0.5V 5% + 0.5A	
OVE and OCE Accuracy $\pm$ (%0) output + onset	Activation Time		S 80 S 4 C.SA < 80ms when maximum output rating	
		Time	0.1% + 10mV	
Tracking Accuracy		No overshoot, undershoot : $\leq -0.8V$		
Dutput Voltage Overshoot & Undershoot		No overshoot, No undershoot $\simeq -0.00$		
Voltage Output Setting				
Remote Interface			GPIB(IEEE-488.2) Option , RS232C Standard	
Programming Language	1		SCPI(Standard Commands for P	-
Command Processing Time(average)	Apply		Setting	28ms
			Query	32ms
	Output Setting	tting	Voltage & Current Setting	28ms
			Voltage & Current Query	32ms
	Measurem	ent	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	
Remote Sensing Capability	II oad 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		$0^{\circ}$ 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	
			$\pm 30$ V output is $\pm 60$ Vdc when connecting shorting conductors without insulation to the	
Output Terminal Isolated (maximum, from chas			(+)output to the (+)sense and the (-)output and the (-)sense terminals $220V \pm 10\% 50\sim$ 60Hz	
AC Input Ratings	Standard		$110V \pm 10\% 50\%0Hz$	
	Option			
			115V ± 10% 50~60Hz 230V ± 10% 50~60Hz	
	Precision		6 month	
Calibration Interval				
	Recommended		1 year 213mm(W) + 133mm(H) + 394mm(D)	
Dimensions (19-inch 3U Standard)	Excepted the bumper		213mm(W) * 133mm(H) * 394mm(D)	
Movimum Input Doursefful Inc. 1	Included the bumper		226mm(W) * 147mm(H) * 394mm(D)	
Maximum Input Power(full load)		849.9W		
Weight	Net weight Gross weight		12.5kg	
weight			14kg	