

# SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPE-503QI



# ODA

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Parameter		Specifications	
Output rating(@0°C ~ 40°C) <i>Full channel isolated</i>	Channel 1	0 to 50V / 0 to 3A	
	Channel 2	0 to 50V / 0 to 3A	
	Fixed output 1	3.3V or 5V / 2A (Selectable type)	
	Fixed output 2	12V or 15V / 1A (Selectable type)	
Output WATT	300W		
Programming Accuracy (@25°C ±5°C)±(%of output + offset)	Voltage	0.2% + 300mV	
	Current	0.2% + 15mA	
Readback Accuracy (@25°C ±5°C)±(%of output + offset)	Voltage	0.2% + 300mV	
	Current	0.2% + 15mA	
Ripple and Noise(20Hz to 20MHz)	Voltage	≤ 3mVp-p	
	Current	≤ 2mArms	
Load Regulation (@25°C ±5°C)±(%of output + offset)	Voltage	0.01% + 2mV	
	Current	0.01% + 500µA	
Line Regulation (@25°C ±5°C)±(%of output + offset)	Voltage	0.01% + 2mV	
	Current	0.01% + 500µA	
Resolution	Programming/Readback	≤ 15mV / ≤ 1mA	
	Display Meter	100mV / 10mA	
Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up	Voltage	0.02% + 2mV	
	Current	0.02% + 3mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	0.1% + 5mV	
	Current	0.2% + 5mA	
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 (10% ~ 90%)	No load	Rising time	≤ 70ms
		Falling time	≤ 1.5s
	Half load	Rising time	≤ 70ms
		Falling time	≤ 10ms
Tracking Accuracy	0.5% + 100mV		
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF	No overshoot, undershoot : ≤0V ~ ≥ -0.3V	
	Voltage Output Setting	No overshoot, No undershoot	
Remote Interface	RS232C Standard (RS485 Option)		
Programming Language	SCPI(Standard Commands for Programmable Instruments)		
Command Processing Average Time (@19200bps)	Output Setting	Voltage & Current Setting	10ms
		Voltage & Current Query	12ms
	Measurement	Voltage & Current Query	15ms
	The Other	Setting & Query	32ms
State Storage Memory	Five user-configurable(voltage,current)stored states		
Operation Temperature Range	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)	±30V output is ±60 Vdc when connecting shorting conductors without insulation between the (+),(-) output terminals and shassis.		
AC Input Ratings	Standard	220V ± 10% 50~60Hz	
		100V ± 10% 50~60Hz	
	Option	110V ± 10% 50~60Hz	
		230V ± 10% 50~60Hz	
Calibration Interval	Recommended	1 year	
Dimensions (19-inch Half 2U Standard , not include output terminal)	213mm(W) * 88mm(H) * 295mm(D)		
Maximum Input Power(full load)	810W		
Weight	Net weight	11 kg	
	Gross weight	12.2kg	