

# SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPE-1501DI



# ODA

TECHNOLOGIES  
www.odacore.com

Parameter			Specifications	
Output rating(@0℃ ~ 40℃)	Channel 1		0 to 150V / 0 to 1A	
Full channel isolated	Channel 2		0 to 150V / 0 to 1A	
Output WATT			300W	
Programming Accuracy	Voltage		0.5% + 900mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.2% + 15mA	
Readback Accuracy	Voltage		0.5% + 900mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.2% + 15mA	
Ripple and Noise(20Hz to 20MHz)	Voltage		≤ 5mVp-p	
	Current		≤ 2mA <sub>rms</sub>	
Load Regulation	Voltage		0.01% + 2mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.01% + 500μA	
Line Regulation	Voltage		0.01% + 2mV	
(@25℃ ±5℃)±(%of output + offset)	Current		0.01% + 500μA	
Resolution	Programming/Readback		≤ 50mV / ≤ 0.5mA	
	Display Meter		1V / 10mA	
Temperature Coefficient ±(%of output + offset)	Voltage		0.02% + 20mV	
After a 30-minute warm-up	Current		0.02% + 3mA	
Stability ±(%of output + offset)	Voltage		0.1% + 5mV	
After a 1 hour warm-up	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% + 300mV	
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℃ ~ 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 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		7.5kg	
	Gross weight		8.7kg	