

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPE-3001DI



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| Parameter | | | Specifications | |
|---|------------------------|---------------------------|---|------|
| Output rating(@0℃ ~ 40℃) | Channel 1 | | 0 to 300V / 0 to 1A | |
| | Channel 2 | | 0 to 300V / 0 to 1A | |
| Output WATT | | | 600W | |
| Programming Accuracy (@25℃ ±5℃)±(%of output + offset) | Voltage | | 0.2% + 700mV | |
| | Current | | 0.2% + 15mA | |
| Readback Accuracy (@25℃ ±5℃)±(%of output + offset) | Voltage | | 0.2% + 700mV | |
| | Current | | 0.2% + 15mA | |
| Ripple and Noise(20Hz to 20MHz) | Voltage | | ≤ 0.01% mVrms | |
| | Current | | ≤ 2mA rms | |
| Load Regulation (@25℃ ±5℃)±(%of output + offset) | Voltage | | 0.01% + 150mV | |
| | Current | | 0.01% + 500μA | |
| Line Regulation (@25℃ ±5℃)±(%of output + offset) | Voltage | | 0.01% + 150mV | |
| | Current | | 0.01% + 500μA | |
| Resolution | Programming/Readback | | ≤ 80mV / ≤ 0.5mA | |
| | Display Meter | | 1V / 10mA | |
| Temperature Coefficient ±(%of output + offset) After a 30-minute warm-up | Voltage | | 0.02% + 30mV | |
| | Current | | 0.05% + 3mA | |
| Stability ±(%of output + offset) After a 1 hour warm-up | Voltage | | 0.1% + 40mV | |
| | Current | | 0.2% + 3mA | |
| Transient Response Time | | | Less than 50μs for output to recover to within 50mV following a change in output current from full load to half load or vice versa | |
| Voltage Programming Speed (10% ~ 90%) | No load | Rising time | ≤ 400ms | |
| | | Falling time | ≤ 5s | |
| | Half load | Rising time | ≤ 400ms | |
| | | Falling time | ≤ 400ms | |
| Tracking Accuracy | | | 0.5% + 600mV | |
| 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 AC 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 | | 100V ± 10% 50~60Hz | |
| | | | 230V ± 10% 50~60Hz | |
| Calibration Interval | | Recommended | 1 year | |
| Dimensions | Standard | | 426mm(W) * 177mm(H) * 505mm(D) 19-inch 4U Standard Size | |
| | Option | | 300mm(W) * 150mm(H) * 465mm(D) Non Standard Small Size | |
| Maximum Input Power(full load) | | | 1579.8W | |
| Weight | Net weight | | 20kg | |
| | Gross weight | | 21kg | |

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