

SPECIFICATIONS

Programmable DC Power Supply

MODEL : OPE-303QI



ODA

TECHNOLOGIES
www.odacore.com

| Parameter | | Specifications | |
|---|--|--|--------|
| Output rating(@0°C ~ 40°C) <i>Full channel isolated</i> | Channel 1 | 0 to 30V / 0 to 3A | |
| | Channel 2 | 0 to 30V / 0 to 3A | |
| | Fixed output 1 | 3.3V or 5V / 2A (Selectable type) | |
| | Fixed output 2 | 12V or 15V / 1A (Selectable type) | |
| Output WATT | 180W | | |
| Programming Accuracy (@25°C ±5°C)±(%of output + offset) | Voltage | 0.2% + 200mV | |
| | Current | 0.2% + 15mA | |
| Readback Accuracy (@25°C ±5°C)±(%of output + offset) | Voltage | 0.2% + 200mV | |
| | Current | 0.2% + 15mA | |
| Ripple and Noise(20Hz to 20MHz) | Voltage | ≤ 2mVp-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 | ≤ 7.5mV / ≤ 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 | ≤ 40ms |
| | | Falling time | ≤ 1.2s |
| | Half load | Rising time | ≤ 40ms |
| | | Falling time | ≤ 5ms |
| Tracking Accuracy | 0.5% + 60mV | | |
| 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) | 502W | | |
| Weight | Net weight | 5.5kg | |
| | Gross weight | 6.7kg | |

