

SPECIFICATIONS

Programmable DC Power Supply

MODEL : EX50 - 12



ODA

TECHNOLOGIES
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| Parameter | | Specifications | |
|--|------------------------|--|--------------|
| Output rating(@0℃ ~ 40℃) | Voltage | 0 to 50.0 | Maximum 52.5 |
| | Current | 0 to 12.0 | Maximum 12.6 |
| Output WATT | | 0.7 KW | |
| Programming Accuracy (@25℃ ±5℃)±(%of output + offset) | Voltage | 0.1% + 75.0mV | |
| | Current | 0.1% + 36.0mA | |
| Readback Accuracy (@25℃ ±5℃)±(%of output + offset) | Voltage | 0.1% + 50.0mV | |
| | Current | 0.1% + 24.0mA | |
| Ripple and Noise(20Hz to 20MHz) | | ≤ 10mVrms | |
| Load Regulation (with V-Sensing) | | ≤ 50 mV | |
| Line Regulation (with V-Sensing) | | ≤ 50 mV | |
| Resolution | Programming/Readback | ≤ 0.9mV / ≤ 0.2mA | |
| | Display Meter | 10mV / 10mA | |
| Temperature Coefficient After a 30-minute warm-up | Voltage | ≤ 10.0mV | |
| | Current | ≤ 3.6mA | |
| Stability ±(%of output + offset) After a 1 hour warm-up | Voltage | ≤ 25.0mV | |
| | Current | ≤ 6.0mA | |
| Voltage Programming Speed (10%~90% of output voltage) | Half load | Rising time | ≤ 300ms |
| | | Falling time | ≤ 300ms |
| Remote Sensing Capability | Voltage Drop | Up to 2.5V per each lead | |
| | Load 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 rating. | |
| OVP and OCP Accuracy ±(%of output + offset) | OVP | 1% + 0.5V | |
| | OCP | 1% + 1.2A | |
| | Activation Time | < 80ms when maximum output rating | |
| Output Voltage Overshoot & Undershoot | Power Switch ON/OFF | No overshoot, undershoot : ≤ -0.8V | |
| | Voltage Output Setting | No overshoot, No undershoot | |
| Remote Interface | | RS232C , RS485 , USB Standard (TCP/IP Option) | |
| Programming Language | | SCPI(Standard Commands for Programmable Instruments) | |
| Command Processing Time(average) | Apply | Setting | 20ms |
| | | Query | 32ms |
| | Output Setting | Voltage & Current Setting | 15ms |
| | | Voltage & Current Query | 32ms |
| | The Other | Setting & Query | < 35ms |
| State Storage Memory | | Ten user-configurable(voltage,current,protection level)stored states | |
| Operation Temperature | | 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) | | ±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 | single phase 220V ± 10% 50~60Hz | |
| | Option | 3-phase 4-wire system(R,S,T,N,G) ± 10% 50~60Hz 3-phase 3-wire system(R,S,T,G) ± 10% 50~60Hz | |
| Calibration Interval | Precision | 6 month | |
| | Recommended | 1 year | |
| Dimensions (19" Standard) | | 426(W) * 44(H) * 550(D) | |
| Maximum Input Power(full load) | | 0.8 KW | |
| Weight | Net weight | 6.25kg | |
| | Gross weight | 7.75kg | |