

# SPECIFICATIONS

Programmable DC Power Supply

MODEL : PT36 - 12



# ODA

TECHNOLOGIES  
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| Parameter  |                        | Specifications   |  |
|--|------------------------|--|--|
| Output rating(@0℃ ~ 40℃)                                   | Voltage                | 0 to 36.0  | Maximum 37.80  |
|  | Current                | 0 to 12.0  | Maximum 12.60  |
| Output WATT  |                        | 0.5 KW   |  |
| Programming Accuracy<br>(@25℃ ±5℃)±(%of output + offset)   | Voltage                | 0.1% + 54.0mV  |  |
|  | Current                | 0.1% + 36.0mA  |  |
| Readback Accuracy<br>(@25℃ ±5℃)±(%of output + offset)      | Voltage                | 0.1% + 36.0mV  |  |
|  | Current                | 0.1% + 24.0mA  |  |
| Ripple and Noise(20Hz to 20MHz)                            |                        | ≤ 10mVrms  |  |
| Load Regulation (with V-Sensing)                           |                        | ≤ 36 mV  |  |
| Line Regulation (with V-Sensing)                           |                        | ≤ 36 mV  |  |
| Power Factor(full load)                                    |                        | 0.97   |  |
| Resolution   | Programming/Readback   | ≤ 0.9mV / ≤ 0.2mA  |  |
|  | Display Meter          | 10mV / 10mA  |  |
| Temperature Coefficient<br>After a 30-minute warm-up       | Voltage                | ≤ 7.2mV  |  |
|  | Current                | ≤ 3.6mA  |  |
| Stability ±(%of output + offset)<br>After a 1 hour warm-up | Voltage                | ≤ 18.0mV   |  |
|  | Current                | ≤ 6.0mA  |  |
| Voltage Programming Speed<br>(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% + 0.4V  |
|  | 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   |  |
| 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   |
|  | Measurement            | 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 110 ~ 220V ± 10% 50~60Hz  |  |
| AC Input Current   |                        | 2.36A(AC Input 220Vac)   |  |
| Dimensions (19" Standard)                                  |                        | 70(W) * 125.5(H) * 350(D)  |  |
| Maximum Input Power(full load)                             |                        | 0.6 KW   |  |
| Weight   | Net weight             | 4.2kg  |  |
|  | Gross weight           | 5.2kg  |  |

\*상기모델은 사용자 Application에 최적화하기위해 예고없이 사양변경될 수 있으므로 구입전 확인하시기 바랍니다.