



**Customer:**

**Customer Model Number:**

**Product Part Number:** PS-12160A

**1. Input Requirement**

Voltage	Universal 100 – 240Vac, Single Phase
Frequency	50 – 60 Hz
Current	2.8A Maximum
Inrush Current	100A Max. / 240Vac (Cold start at 25 °C , full load)
Efficiency	Eff (av) ≥ 88% (At 115 Vac & 230 Vac) Meet DOE VI
Power Consumption	Pi ≤ 0.21 W (At 115 Vac & 230 Vac & No Load)

**2. Output Requirement**

DC Output Voltage	+12V ±5%
DC Output Current	16A Maximum
Regulation	11.40V/min. ~ 12Vtyp. ~ 12.60V/max.
Ripple & Noise	150 mVpp Max.
Total Power	192W Maximum

**Remark: For ripple & noise measurement, use a 20MHz bandwidth frequency oscilloscope, and add a 0.1µF multilayer Cap. and a Low ESR Electrolytic Cap. (47 µF ) at output connector terminals. (At nominal line voltage, Full Load)**

**3. Protection**

Over Voltage Protection (OVP)	Vout * 150% MAX
Over Current Protection (OCP)	Iout * * 150% MAX
Short Circuit Protection (SCP)	Shut down
Over Temperature Protection (OTP)	Shut down

**4. Environmental Requirement**

**Operating Temperature:** 0°C ~ 40°C

**Storage Temperature:** -20°C ~ 80°C

**Operating Humidity:** 20% ~ 80%

**Storage Humidity:** 10% ~ 90%

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**Cooling Method:** By natural air

### 5. Reliability and Quality Control

**MTBF:** 300,000Hrs.(Calculated Hours at 25°C,By Telcordia SR-332)

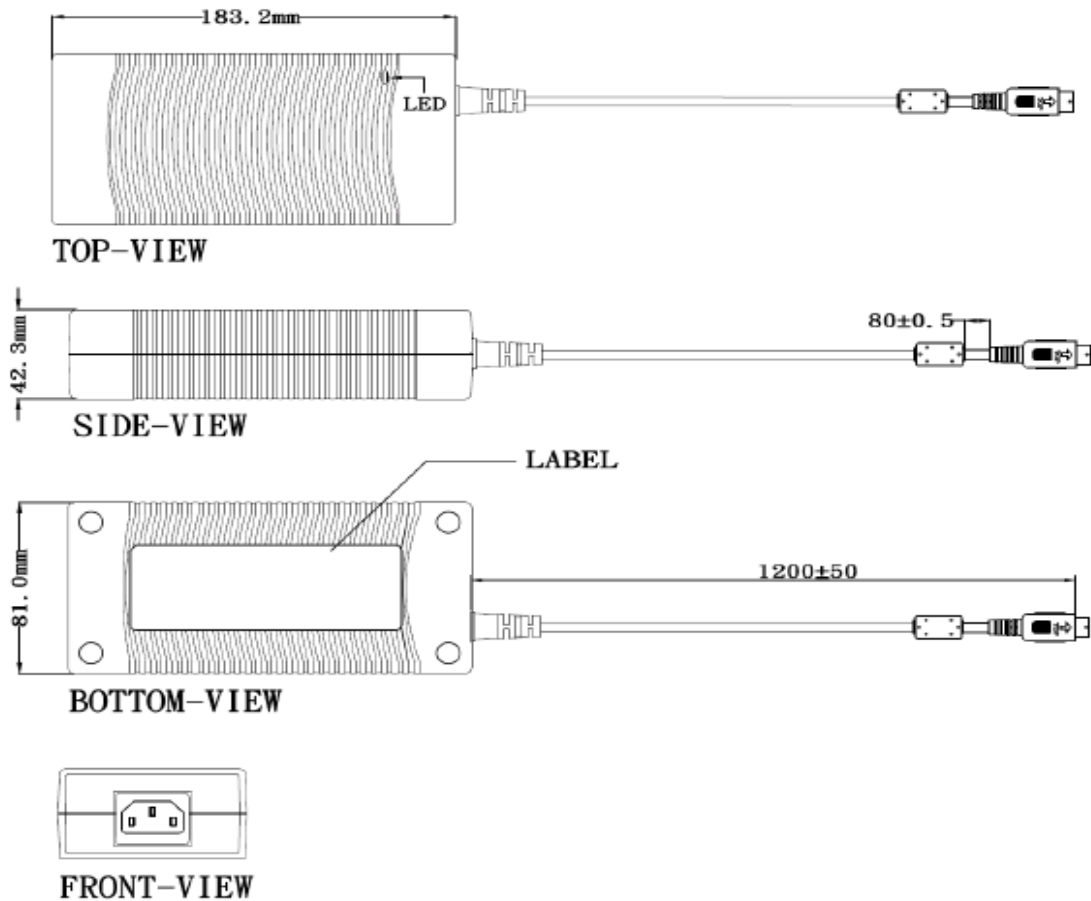
### 6. Mechanical Requirement

Case Dimension: 183.2mm(L)\*81.0mm(W)\*42.3mm(H)

Cable Type: Black UL2464 16AWG

Cable Length: 1200mm

Output Connector: 8 pin din connector



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## 7. Safety

### **Safety Standard**

The power supply shall be certified under the following international regulatory standards:  
CB / UL / CUL / GS / PSE / BSML / CCC / RCM

### **Insulation Resistance**

Primary to Secondary: 10 M $\Omega$  for 500 VDC.  
Primary to Frame Ground: 10 M $\Omega$  for 500 VDC.

### **Dielectric Strength (Hi-Pot)**

Primary to Secondary: 3000Vac for 1 Minutes  
Primary to Frame Ground: 1500Vac for 1 Minutes

**Leakage Current:** less than 0.35mA

**EMI Requirement:** CE / FCC Class B; Conduction & Radiation meet

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