



**Customer:**

**Customer Model Number:**

**Product Part Number:** PS-1250APL05

### 1. Input Requirement

Voltage	Universal 100 – 240Vac, Single Phase
Frequency	50 – 60 Hz
Current	1.4A Maximum
Inrush Current	80A Max. / 240Vac (Cold Start At 25 °C , Full Load)
Efficiency	Eff (av) $\geq$ 88 % (At 115 Vac & 230 Vac) Energy Efficiency Level VI
Power Consumption	$P_i \leq 0.21$ W (At 230 Vac & No Load)

### 2. Output Requirement

DC Output Voltage	+12V $\pm$ 5%
DC Output Current	5A Maximum
Regulation	11.40Vmin. ~ 12.00Vtyp. ~ 12.60Vmax.
Ripple & Noise	120 mVpp Max.
Total Power	60W Maximum

**Remark: For ripple & noise measurement, use a 20MHz bandwidth frequency oscilloscope, and add a 0.1 $\mu$ F multilayer Cap. and a Low ESR Electrolytic Cap. (10  $\mu$ F ) at output connector terminals. (At nominal line voltage, Full Load)**

### 3. Protection

#### Over Voltage Protection

Over voltage protection shall be included in the adaptor circuit. A single component failure must not cause an over voltage.

#### Over Current Protection

The adaptor must have a current limiting function on the output voltage. in overload mode, the output must drop to a low voltage.

#### Short Circuit Protection

The adaptor must withstand a continuous short circuit on the output without damage.

### 4. Environmental Requirement

**Operating Temperature:** 0°C ~ +40°C

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**Storage Temperature:** -20°C ~ +80°C

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

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

**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

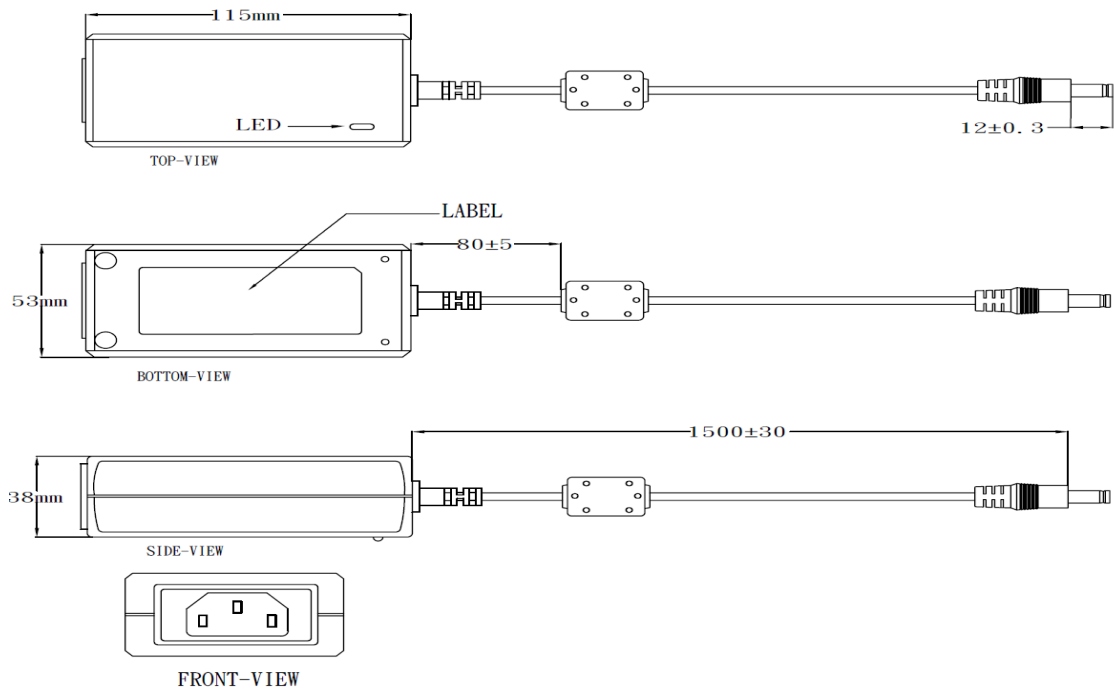
Case Dimension: 115mm(L)\*53mm(W)\*38mm(H)

Cable Type: Black UL1185 16AWG

Cable Length: 1500mm

Output Connector: 5.5mm x 2.1mm x 12mm

External Apperance: As drawing below ( Scale → mm )



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## 7. Safety

### Safety Standard

The power supply shall be certified under the following international regulatory standards:  
UL / cUL / GS / PSE / BSMI / CB / CCC

### Insulation Resistance

Primary to Secondary	10 Mohm for 500Vdc
Primary to Frame Ground	10 Mohm for 500Vdc

### Dielectric Strength (Hi-Pot)

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

**Leakage Current:** Less than 3.5mA

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

**Grounding Test:** Resistance 0.1 ohm Max. @ 32A

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