

# **Switch Mode Power Supplies Single Output** AC/DC Power Supply with PFC

# **AWSP150-5**

## Description:

The AWSP150-5 is a single output power supply. This power supply is designed for a wide variety applications where high reliability is desired, including applications for the industrial and telecommunications markets. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class B and EN61000-3-2), and Low Voltage directive (TUV EN60950).

## Specifications (@25C)

## **Input Characteristics:**

Input Voltage: 88-264Vac Input Frequency Range: 47-63Hz Max Input Current: 2.7A @ Vin (rated)

**Max Inrush Current:** 20A@110Vac, 40A@220Vac at cold start

Power Factor:

<3.5mA/240Vac Leakage Current:

### **Output Characteristics:**

Output Voltage: 5Vdc Output Current: 30.0A Output Power: 150W Adjustable Output Range: ±10% Ripple & Noise: 150mV Load Regulation: ±1.0% Line Regulation: ±0.5% Efficiency: 75%

Temperature Drift: <0.03%/°C (10-50°C) 300ms max @ 230VAc Start-up Time: 20ms min, 100% Load@230Vac Hold-up Time:

Rise-up Time: 600ms max, 100% Load@230Vac **Over Current Protection:** At 105%<Load<150%

Over Voltage Protection: At 125%<Load<145%@I/P:115/230VAC. Reset by recycle AC

ON/OFF

## **General Specifications:**

Switching Frequency: 134kHz (PWM) / 67kHz (PFC)

Dimension (LxWxH): 199x98x42

Weight: 560g net, 610g gross Cooling: Natural Convection

Isolation Resistance: I/P-O/P, I/P-FG, O/P-FG: 500VDC/100Mohms

Dielectric Strength: I/P—O/P: 3KVac; I/P—FG: 2.5KVac; O/P—FG: 0.5KVac 1 min

Warranty:

# **Environmental Specifications:**

-10° to 60°C Operating Temperature:

Operating Humidity: 20 to 90% RH, non-condensing Storage Temperature: -25 to 75°C Storage Humidity: 10 to 95% RH, non-condensing

10-55Hz, 2G 1min/cycle, period of 60min, each X, Y & Z axis Vibration:

# **EMC & Safety Specifications:**

**EMC Emissions:** Conforms to EN55022, VCCI, CISPR22 Class B (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11

**ESD Susceptibility:** EN61000-4-2 (15kV/8kV) Radiated Susceptibility: EN61000-4-3 (3Vm<sup>-1</sup>) EN61000-4-4 (2kV) Fast Burst: EN61000-4-5 (1kV/2kV) Surge: UL 60950 (UL File No: É204980) Safety Approval:

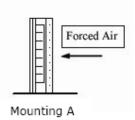
TUV EN60950 (TUV No: 50058679)





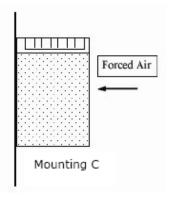








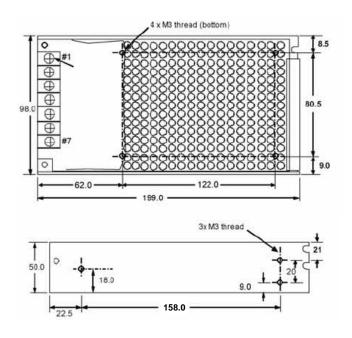
Mounting B





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# **Outline Dimensions (mm):**



#### TERMINAL SCREW ASSIGNMENT

# 1,2 : AC INPUT

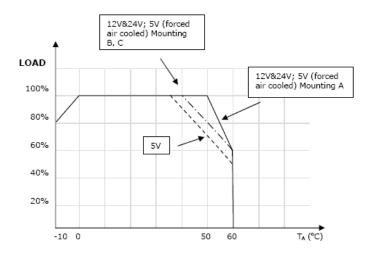
#3 : FG #4,5 : DC OUTPUT -V

# 6,7 : DC OUTPUT +V

Unit: mm

Tolerance: +/-1.0mm

## **Derating Curve:**



### **Connector Types:**

Input: Screw Terminals
Output: Screw Terminals

RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

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