

## 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.

### Specifications (@25C)

#### Input Characteristics:

|                               |                                      |
|-------------------------------|--------------------------------------|
| <b>Input Voltage:</b>         | 88-264Vac                            |
| <b>Input Frequency Range:</b> | 47-63Hz                              |
| <b>Max Input Current:</b>     | 2.7A @ Vin (rated)                   |
| <b>Max Inrush Current:</b>    | 20A@110Vac, 40A@220Vac at cold start |
| <b>Power Factor:</b>          | >0.92                                |
| <b>Leakage Current:</b>       | <3.5mA/240Vac                        |

#### Output Characteristics:

|                                 |  |
|---------------------------------|--|
| <b>Output Voltage:</b>          | 5Vdc   |
| <b>Output Current:</b>          | 30.0A  |
| <b>Output Power:</b>            | 150W   |
| <b>Adjustable Output Range:</b> | ±10%   |
| <b>Ripple &amp; Noise:</b>      | 150mV  |
| <b>Load Regulation:</b>         | ±1.0%  |
| <b>Line Regulation:</b>         | ±0.5%  |
| <b>Efficiency:</b>              | 75%  |
| <b>Temperature Drift:</b>       | <0.03%/°C (10-50°C)  |
| <b>Start-up Time:</b>           | 300ms max @ 230VAC   |
| <b>Hold-up Time:</b>            | 20ms min, 100% Load@230Vac                                   |
| <b>Rise-up Time:</b>            | 600ms max, 100% Load@230Vac                                  |
| <b>Over Current Protection:</b> | At 105%<Load<150%  |
| <b>Over Voltage Protection:</b> | At 125%<Load<145%@I/P:115/230VAC. Reset by recycle AC ON/OFF |

#### General Specifications:

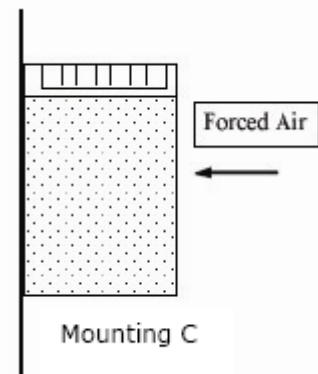
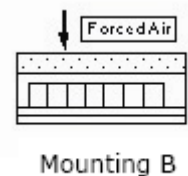
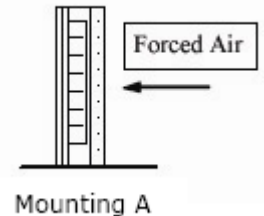
|                              |  |
|------------------------------|--|
| <b>Switching Frequency:</b>  | 134kHz (PWM) / 67kHz (PFC)                           |
| <b>Dimension (LxWxH):</b>    | 199x98x42  |
| <b>Weight:</b>               | 560g net, 610g gross                                 |
| <b>Cooling:</b>              | Natural Convection                                   |
| <b>Isolation Resistance:</b> | I/P—O/P, I/P—FG, O/P—FG: 500VDC/100Mohms             |
| <b>Dielectric Strength:</b>  | I/P—O/P: 4.3KVdc; I/P—FG: 2.5KVvac; O/P—FG: 0.5KVvac |
| <b>Warranty:</b>             | 2 years  |

#### Environmental Specifications:

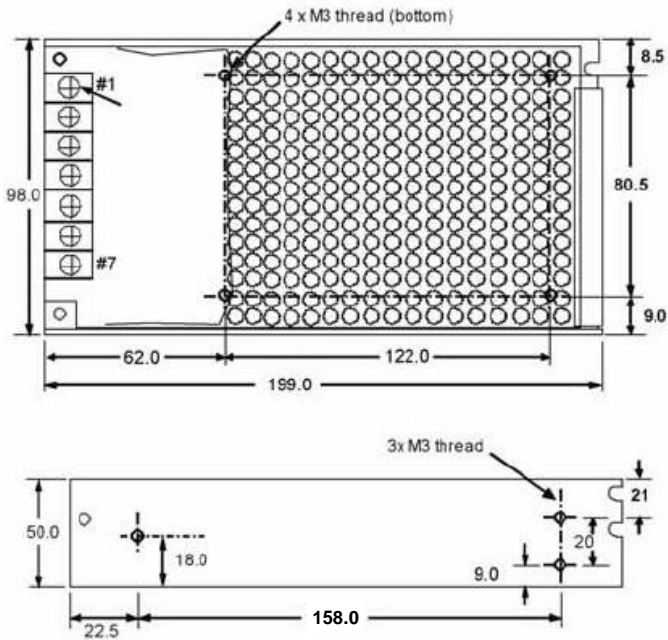
|                               |   |
|-------------------------------|---|
| <b>Operating Temperature:</b> | -10° to 60°C  |
| <b>Operating Humidity:</b>    | 20 to 90% RH, non-condensing                                |
| <b>Storage Temperature:</b>   | -25 to 75°C   |
| <b>Storage Humidity:</b>      | 10 to 95% RH, non-condensing                                |
| <b>Vibration:</b>             | 10-55Hz, 2G 1min/cycle, period of 60min, each X, Y & Z axis |

#### EMC & Safety Specifications:

|                                 |  |
|---------------------------------|--|
| <b>EMC Emissions:</b>           | Conforms to EN55022, VCCI, CISPR22 Class B (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11 |
| <b>ESD Susceptibility:</b>      | EN61000-4-2 (15kV/8kV)   |
| <b>Radiated Susceptibility:</b> | EN61000-4-3 (3V/m)   |
| <b>Fast Burst:</b>              | EN61000-4-4 (2kV)  |
| <b>Surge:</b>                   | EN61000-4-5 (1kV/2kV)  |
| <b>Safety Approval:</b>         | UL 60950 (UL File No: E204980)   |



### Outline Dimensions (mm):

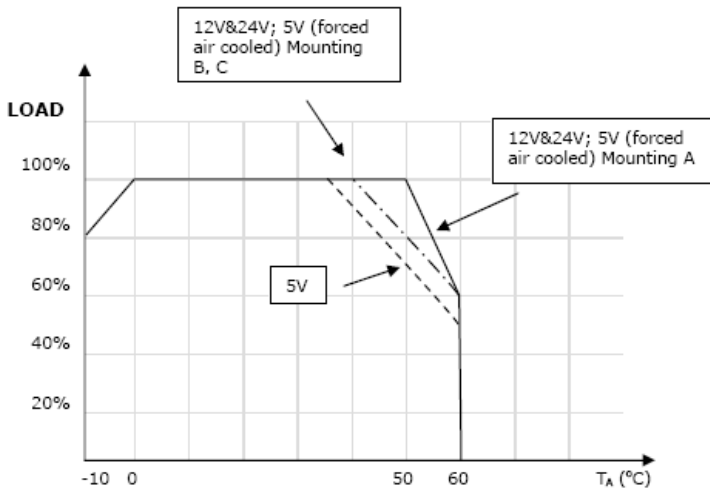


### TERMINAL SCREW ASSIGNMENT

- # 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 2016, all standard products meet the requirements of 2015/863/EU, known as the RoHS 3 initiative.

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