

### AWSP150-24

#### Description:

The AWSP150-24 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:          | >0.92                                |
| Leakage Current:       | <3.5mA/240Vac                        |

##### Output Characteristics:

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| Output Voltage:          | 24Vdc                                                        |
| Output Current:          | 6.3A                                                         |
| Output Power:            | 150W                                                         |
| Adjustable Output Range: | ±10%                                                         |
| Ripple & Noise:          | 240mV                                                        |
| Load Regulation:         | ±0.5%                                                        |
| Line Regulation:         | ±0.5%                                                        |
| Efficiency:              | 83%                                                          |
| Temperature Drift:       | <0.03%/°C (10-50°C)                                          |
| Start-up Time:           | 300ms max @ 230VAc                                           |
| Hold-up Time:            | 20ms min, 100% Load@230Vac                                   |
| 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:

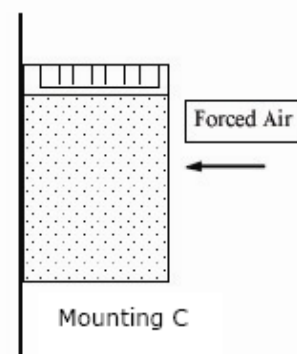
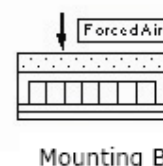
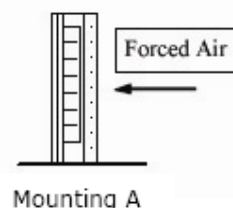
|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Switching Frequency:  | 134kHz (PWM) / 67kHz (PFC)                             |
| Dimension (LxWxH):    | 199x98x42                                              |
| 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:             | 2 years                                                |

##### Environmental Specifications:

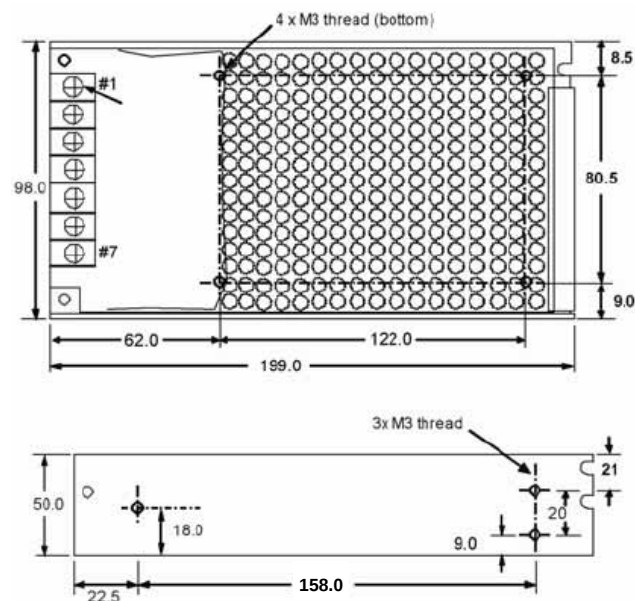
|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| Operating Temperature: | -10° to 60°C                                                |
| Operating Humidity:    | 20 to 90%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

##### 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 (3V/m)                                                                                                 |
| Fast Burst:              | EN61000-4-4 (2kV)                                                                                                  |
| Surge:                   | EN61000-4-5 (1kV/2kV)                                                                                              |
| Safety Approval:         | UL 60950 (UL File No: E204980)<br>TUV EN60950 (TUV No: 50058679)                                                   |



#### Outline Dimensions (mm):

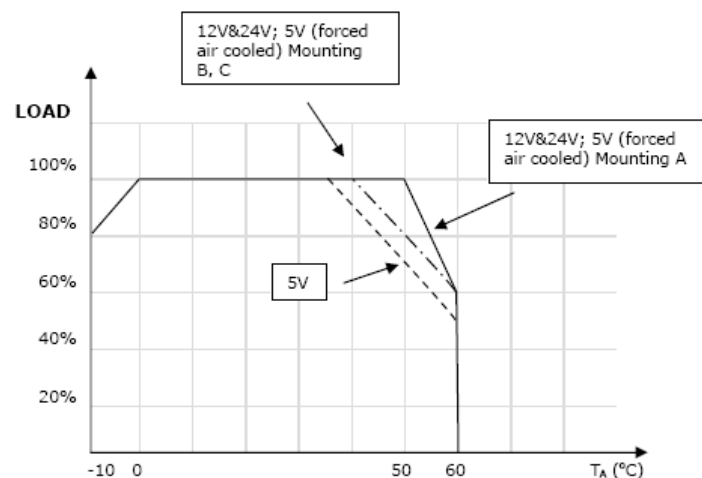


#### TERMINAL SCREW ASSIGNMENT

- # 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.

\* Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version.