

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

AWSP100-24

Description:

The AWSP100-24 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: 1.8A @ Vin (rated)

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

Power Factor: >0.92

Leakage Current: <3.5mA/240Vac

Output Characteristics:

24Vdc **Output Voltage: Output Current:** 4.2A **Output Power:** 100W Adjustable Output Range: ±10% Ripple & Noise: 100mV Load Regulation: ±0.5% Line Regulation: ±0.5% Efficiency: 84%

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

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

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

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)

EN61000-4-3 (3Vm⁻¹) **Radiated Susceptibility:** EN61000-4-4 (2kV) **Fast Burst:** Surge: EN61000-4-5 (1kV/2kV) UL 60950 (UL File No: E204980) Safety Approval:

TUV EN60950 (TUV No: 50058679)



Web: www.TriadMagnetics.com Phone 951-277-0757

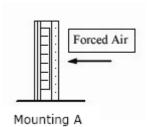
Fax 951-277-2757

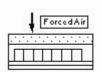
22520B Temescal Canyon Road Corona, California

92883

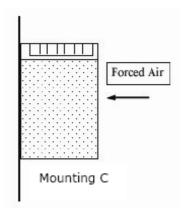
Release Date: March 13, 2006 Revision: A







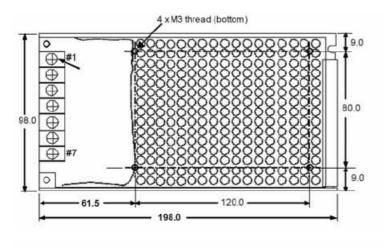
Mounting B





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Outline Dimensions (mm):



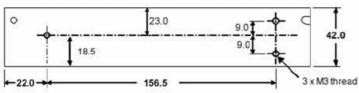
TERMINAL SCREW ASSIGNMENT

1,2 : AC INPUT

#3 : FG

4,5 : DC OUTPUT -V

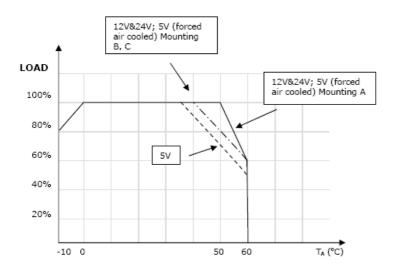
6,7: DC OUTPUT +V



Unit: mm

Tolerance: +/-1.0mm

Derating Curve:



Connector Types:

Input: Screw TerminalsOutput: Screw Terminals

RoHS Compliance: This power supply meets the requirements 2002/95/EC, know as the RoHS initiative.

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

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