TRIAD MAGNETICS

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

AWSP100-5



Description:

The AWSP100-5 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).

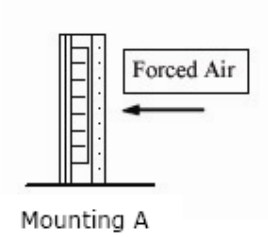
Specifications (@25C)

Input Characteristics:

Input Voltage:	88-264Vac
Input Frequency Range:	47-63Hz
Max Input Current:	1.8A @ Vin (rated)
Max Inrush Current:	20A@110Vac, 40A@220Vac at cold start
Power Factor:	>0.92
Leakage Current:	<3.5mA/240Vac

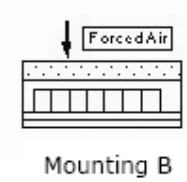
Output Characteristics:

Output Voltage:	5Vdc
Output Current:	20.0A
Output Power:	100W
Adjustable Output Range:	±10%
Ripple & Noise:	100mV
Load Regulation:	±1.0%
Line Regulation:	±0.5%
Efficiency:	75%
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

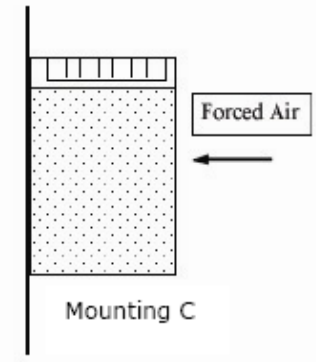


Environmental Specifications:

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 (3Vm^{-1})
Fast Burst:	EN61000-4-4 (2kV)
Surge:	EN61000-4-5 (1kV/2kV)
Safety Approval:	UL 60950 (UL File No: E204980) TUV EN60950 (TUV No: 50058679)

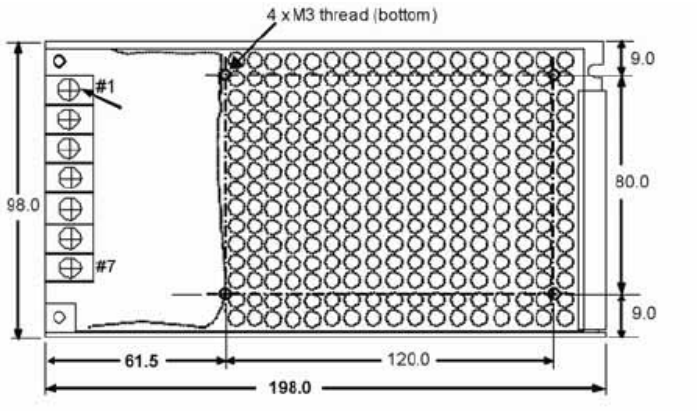


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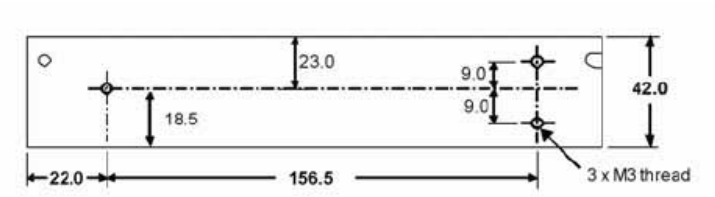
Publish Date: December 4, 2013

Outline Dimensions (mm):



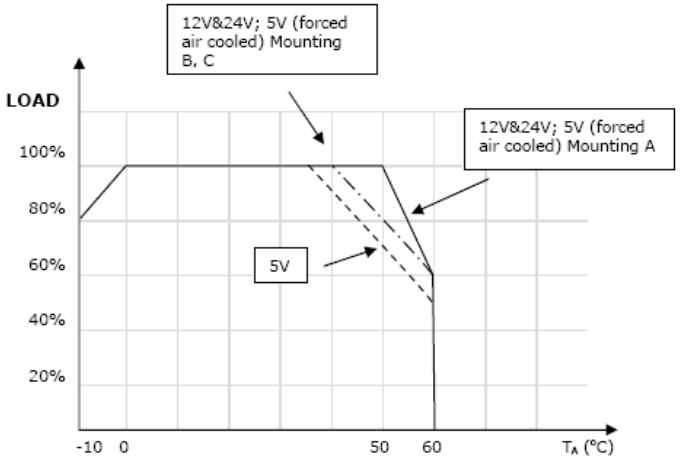
TERMINAL SCREW ASSIGNMENT

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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Global Electronic Components Distributor

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Triad Magnetics:

TCT50-05E07AB FIT44-3 FS28-040-C2 SP-32 FP34-75 WSU120-1000 WSU240-0500 CST206-1T FD8-16 FIT106-6 FS12-1000 AWSP60-12 F-13X FD4-24 VPS10-2500 VPS20-4000 AX97-30100 CMT-8107 CMT-8120 FP24-500 N-54MG C-17X CSE186L F-3116X FIT106-2 F20-055 TY-311P WSU180-0450-R C-36X N-68X