



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### 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:

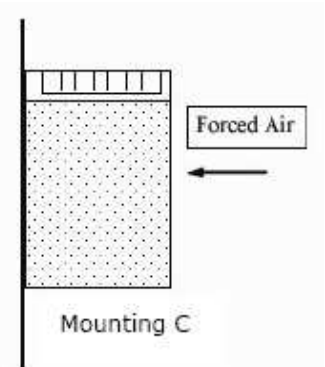
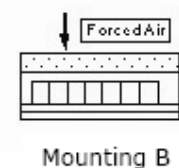
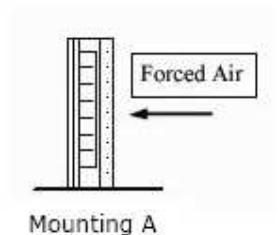
Switching Frequency:	134kHz (PWM) / 67kHz (PFC)
Dimension (LxWxH):	199x98x42
Weight:	560g net, 610g gross
Cooling:	Natural Convection
Isolation Resistance:	I/P—O/P, I/P—FG, O/P—FG: 500VDC/100Mohms
Dielectric Strength:	I/P—O/P: 3kVac; I/P—FG: 2.5kVac; O/P—FG: 0.5kVac 1 min
Warranty:	2 years

##### Environmental Specifications:

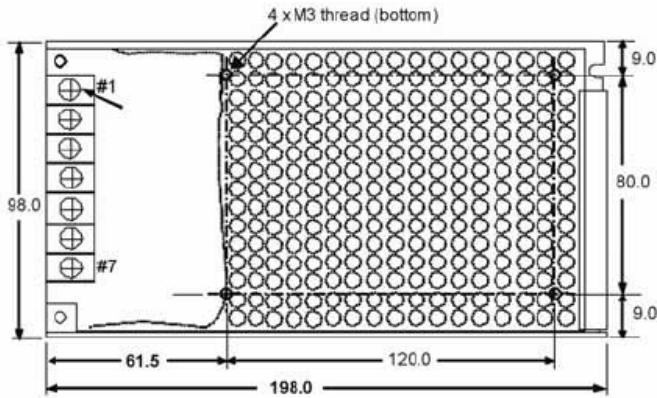
Operating Temperature:	-10° to 60°C
Operating Humidity:	20 to 90% RH, non-condensing
Storage Temperature:	-25 to 75°C
Storage Humidity:	10 to 95% RH, non-condensing
Vibration:	10-55Hz, 2G 1min/cycle, period of 60min, each X, Y & Z axis

##### 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 <sup>-1</sup> )
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)

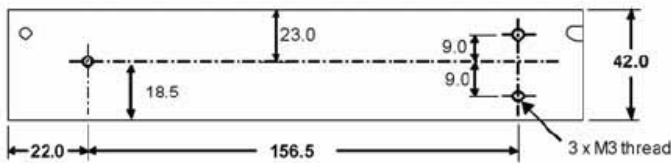


### Outline Dimensions (mm):



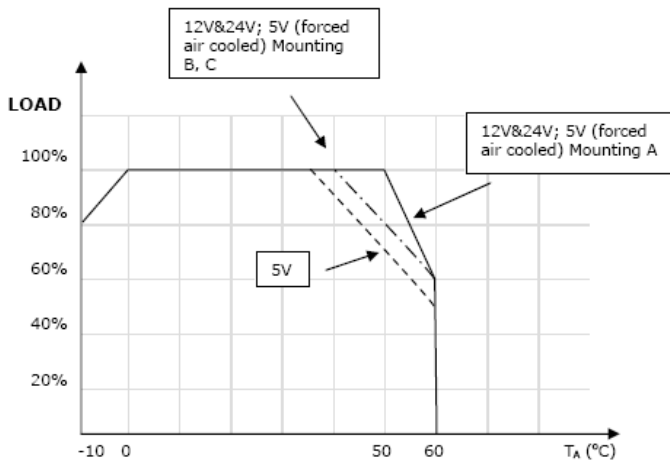
#### TERMINAL SCREW ASSIGNMENT

- # 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.