

Switch Mode Power Supplies Single Output AC/DC Power Supply

ALS50-3.3

Description:

The ALS50-3.3 is a single output power supply. It provides a DC output power in a cost-effective open frame package. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class A), and Low Voltage directive (TUV EN60950).

Specifications (@25C)

Input Characteristics:

Input Voltage (5): 110/220Vac (90-260Vac, 120-370Vdc)

Input Frequency Range (1): 47-63Hz

Max Input Current: 1.0A @ 110Vac; 0.5A @ 220Vac

Max Inrush Current: 30A @ 220VAc

Hold-Up Time: 17ms typ @ 110Vac, 100% Load

Output Characteristics:

 Output Voltage:
 3.3Vdc

 Output Current (1,6):
 9.1A

 Output Power (1):
 30W

 Ripple & Noise (20 MHz BW):
 50mV

 Line Regulation (4):
 1.0%

 Load Regulation (3):
 2.0%

 Temperature Drift:
 0.02%/°C

Rise-up Time: 500ms max, 110Vac, 100% Load

Over Current Protection: Shutdown, O.C.P Point>120%, recycle AC supply to recover

Over Voltage Protection: >105% Zener across output

Short Circuit Protection: Unit shutdown, recycle AC supply to recover

Adj. O/P Voltage Range (1,2): ±10%

Environmental Specifications:

EMI (Conducted RFI):

Built to comply with EN55022-B

EFT:

Built to comply with IEC61000-4-4

ESD:

Built to comply with IEC61000-4-2

Surge:

Built to comply with IEC61000-4-5

Operating Temperature: Convection cooling 0 to 50°C:100%; 60°C:70%

Operating Humidity: 30% to 90% RH
Storage Temperature: -25 to 85°C
Storage Humidity: 10% to 95% RH
Cooling: Convection cooling

Vibration: 1min sweep 10-55Hz, 2G Amplitude, X,Y,Z axis 1hr each

Shock: <20G

General Specifications:

Efficiency: 70% Typical 76.20x127x35.56mm

Weight: 300g

Warranty: 2 years @ 40°C, 100% Load

Safety Standards:

Standard: UL1950 (E204980) TUV EN60950 (50070245)

Built to meet CSA 22.2

Dielectric Strength: I/P-O/P:3kVac, I/P-FG:2.5kVac, <10mA, 1min

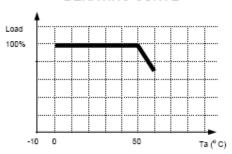
Insulation Resistance: O/P-FG: 500VDC>100Mohms







DERATING CURVE



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

Fax 951-277-2757

460 Harley Knox Blvd. Perris, California 92571

Publish Date: December 4, 2013

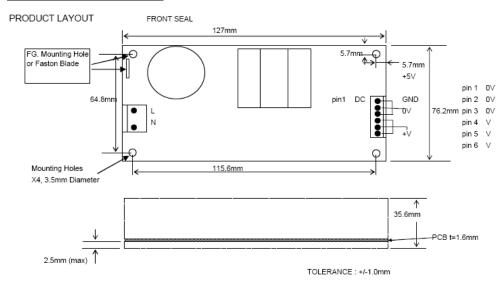


Switch Mode Power Supplies Single Output AC/DC Power Supply

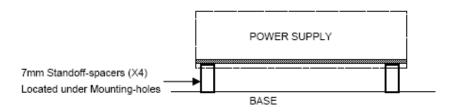
Technical Notes:

- 1. Throughout Vin range. Vout must be measured as near as possible to power supply.
- 2. Total output power by any combination of channel must not exceed Pou(m).
- 3. Vout deviation as lout varies from lo(min)-lo(max).
- 4. Vout deviation as Vin varies from 90 260Vac.
- 5. Where UL and CSA is concerned, official rated input voltage range is 100-120Vac/200-240Vac.
- 6. Current derated to avoid issues with heat dissipation due to large load current at such low voltage.

Outline Dimensions (mm):



Mounting Method:



Connector Types:

 AC Housing:
 Molex 09-50-3031
 Crimp Terminals:
 Molex 08-50-0105

 DC Housing:
 Molex 09-50-3061
 Crimp Terminals:
 Molex 08-50-0105

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.

Web: www.TriadMagnetics.com Phone 951-277-0757 Fax 951-277-2757

460 Harley Knox Blvd. Perris, California 92571

Publish Date: December 4, 2013