

# **Excellent Integrated System Limited**

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Triad Magnetics ALS50-12

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





# Switch Mode Power Supplies Single Output AC/DC Power Supply

# ALS50-12

#### **Description:**

The ALS50-12 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): Input Frequency Range (1): Max Input Current: Max Inrush Current: Hold-Up Time: 110/220Vac (90-260Vac, 120-370Vdc) 47-63Hz 1.0A @ 110Vac; 0.5A @ 220Vac 30A @ 220VAc 17ms typ @ 110Vac, 100% Load

#### **Output Characteristics:**

12.0Vdc
4.2A
50W
120mV
1.0%
2.0%
0.02%/°C
500ms max, 110Vac, 100% Load
Shutdown, O.C.P Point>120%, recycle AC supply to recover
>105% Zener across output
Unit shutdown, recycle AC supply to recover
±10%

#### **Environmental Specifications:**

EMI (Conducted RFI): EFT: ESD: Surge: Operating Temperature: Operating Humidity: Storage Temperature: Storage Humidity: Cooling: Vibration: Shock: Built to comply with EN55022-B Built to comply with IEC61000-4-4 Built to comply with IEC61000-4-2 Built to comply with IEC61000-4-5 Convection cooling 0 to 50°C:100%; 60°C:70% 30% to 90% RH -25 to 85°C 10% to 95% RH Convection cooling 1min sweep 10-55Hz, 2G Amplitude, X,Y,Z axis 1hr each <20G

#### General Specifications:

Efficiency: Dimensions (WxLxH): Weight: Warranty:

70% Typical 76.20x127x35.56mm 300g 2 years @ 40°C, 100% Load

UL1950 (E204980)

#### Safety Standards:

Standard:

Dielectric Strength: Insulation Resistance:



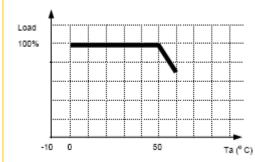
Web: www.TriadMagnetics.com Phone 951-277-0757 Fax 951-277-2757

TUV EN60950 (50070245) Built to meet CSA 22.2 I/P-O/P:3kVac, I/P-FG:2.5kVac, <10mA, 1min O/P-FG: 500VDC>100Mohms

460 Harley Knox Blvd.

Perris, California 92571

# DERATING CURVE







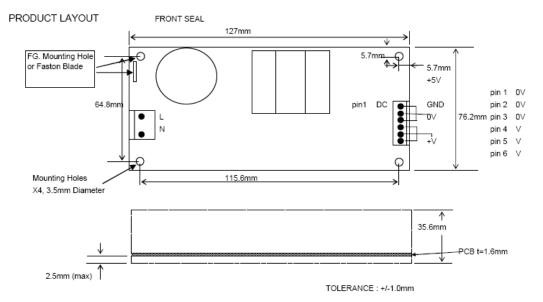


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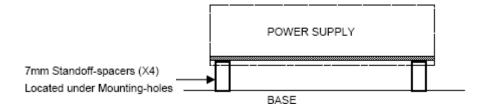
### Technical Notes:

- 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.

# Outline Dimensions (mm):



## Mounting Method:



### **Connector Types:**

AC Housing: Molex 09-50-3031 DC Housing: Molex 09-50-3061 Crimp Terminals: Molex 08-50-0105 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: June 12, 2015
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