

Switch Mode Power Supplies Single Output AC/DC Power Supply

AEU65-050

Description:

The AEU65-050 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.

Specifications (@25C)

Input Characteristics:

Input Voltage: Input Frequency Range: Input Current: Max Inrush Current: Leakage Current:

90-264VAC, 127-373VDC 47-63Hz 1.6A @ 115VAC, 0.8A @ 230VAC typ. 30A@115VAC, 60A@230VAC at cold start <2.4mA/240Vac

4.75 - 5.25V. Output voltage can be adjusted at VR51

1000ms/230VAC, 2000ms/115VAC, full load

I/P-O/P, I/P-FG, O/P-FG: 500VDC/100M Ohms

Output Characteristics:

Output Voltage: Output Current (Convection): Output Power (Convection): Adjustable Output Range: Ripple & Noise¹: Load Regulation: Line Regulation: Efficiency: Start-up Time: Rise-up Time: Hold-up Time: **Over Current Protection:**

Over Voltage Protection:

General Specifications:

Dimension (LxWxH): Weight: Cooling: **Isolation Resistance: Dielectric Strength:** Warranty: MTBF:

30ms/230VAC, 30ms/115VAC, full load 24ms/230VAC, 12ms/115VAC, full load 110 - 160%. Hiccup mode. Resets automatically once the fault condition is removed. 5.75 - 6.75VDC. 99(3.9) x 75(3.0) x 35.0(1.38) mm (in) 200g Natural Convection

I/P-O/P:4.3KVDC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC 3 vears 250K hrs. min. MIL-HDBK-217F (25°C)

5.0VDC±2.0%Vdc

0-10A

60mVp-p

±1.0%

±0.5%

84.0%

50W

Environmental Specifications:

Operating Temperature: -20° to 50°C at full load (Refer to output load derating curve) **Operating Humidity:** 20 to 90% RH, non-condensing Storage Temperature: -40 to 85°C Storage Humidity: 10 to 95% RH, non-condensing <0.03%/°C (0-50°C) Temperature Drift: Vibration: 10-500Hz, 2G 10min/cycle, period of 60min, each X, Y & Z axis

EMC & Safety Specifications²:

Compliance to EN55022, CISPR22 Class B (Conducted & Radiated) **EMI Emissions:** Harmonic Current: Compliance to EN61000-3-2, 3 **EMS** Immunity: Compliance to EN61000-4-2, 3-6, 8 & 11; EN55024 heavy, light industry level, criteria A UL 60950-1, (insulation class -1)

Safety Approval:

Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted-pair wire termination with a 0.1 uF & 47 uF parallel capacitors.

² The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

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

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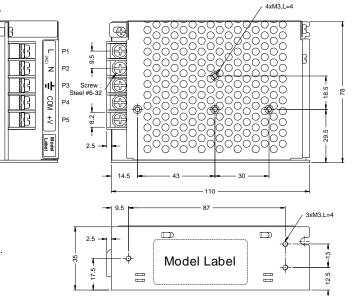






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Outline Dimensions (mm):

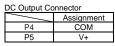


NOTE :

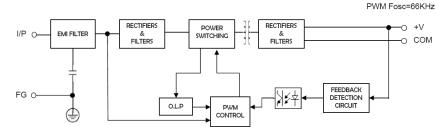
- 1. All I/O connection shall Follow specified Model Label.
- 2. Temp =+50°C (max) at full load.

Connections:

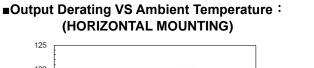
AC Input Connector	
Assignment	
AC/L	
AC/N	
FG	

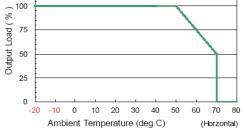


Block Diagram:

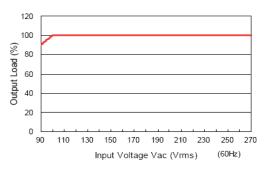


Derating Curve:





■Output Derating VS Input Voltage :



RoHS Compliance: As of manufacturing date February 2016, all standard products meet the requirements of 2015/863/EU, known as the RoHS 3 initiative.

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

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