

Switch Mode Power Supplies Single Output AC/DC Power Supply

AEU65-480

Description:

The AEU65-360 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: 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

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:**

0-1.35A 64.8W 45.6 - 50.4V. Output voltage can be adjusted at VR51 300mVp-p ±0.5% ±0.5% 87.5% 1000ms/230VAC, 2000ms/115VAC, full load 30ms/230VAC, 30ms/115VAC, full load 24ms/230VAC, 12ms/115VAC, full load 110 - 160%. Hiccup mode. Resets automatically once the fault condition is removed. 55.2 - 64.8VDC.

Over Voltage Protection:

General Specifications:

Dimension (LxWxH): 99(3.9) x 75(3.0) x 35.0(1.38) mm (in) Weight: 200g Cooling: Natural Convection I/P-O/P, I/P-FG, O/P-FG: 500VDC/100M Ohms **Isolation Resistance:** I/P-O/P:3KVAC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC **Dielectric Strength:** Warranty: 3 years MTBF: 250K hrs. min. MIL-HDBK-217F (25°C)

48.0VDC±1.5%Vdc

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 Temperature Drift: <0.03%/°C (0-50°C) Vibration: 10-500Hz, 2G 10min/cycle, period of 60min, each X, Y & Z axis

EMC & Safety Specifications²:

EMI Emissions: Compliance to EN55022, CISPR22 Class B (Conducted & Radiated) Compliance to EN61000-3-2, 3 Harmonic Current: **EMS Immunity:** Compliance to EN61000-4-2, 3-6, 8 & 11; EN55024 heavy, light industry level, criteria A UL 60950-1, TUV EN60950-1 (insulation class -1)

Safety Approval:



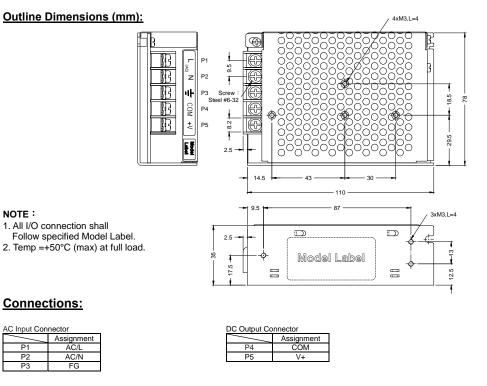


Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted-pair wire termination with a 0.1 uF & 47 uF parallel capacitors. 2

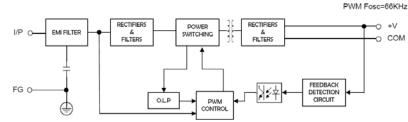
The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives



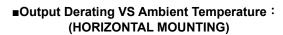
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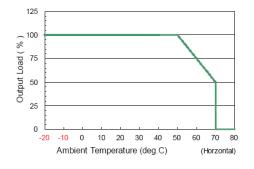


Block Diagram:

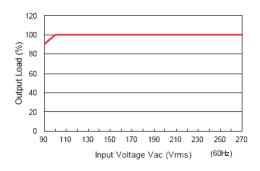


Derating Curve:





■Output Derating VS Input Voltage :



RoHS Compliance: This power supply meets the requirements 2002/95/EC, know as the RoHS initiative.

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