

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

# **AEU65-150**

### **Description:**

The AEU65-150 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.

90-264VAC, 127-373VDC

47-63Hz

### Specifications (@25C)

## Input Characteristics:

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

**Output Characteristics:** 

**Output Voltage: Output Current (Convection): Output Power (Convection):** Adjustable Output Range: Ripple & Noise<sup>1</sup>: 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:

1.6A @ 115VAC, 0.8A @ 230VAC typ. 30A@115VAC, 60A@230VAC at cold start <2.4mA/240Vac 15.0VDC±1.5%Vdc

0-4.33A 65W 14.25 - 15.75V. Output voltage can be adjusted at VR51 120mVp-p ±0.5% ±0.5% 87.0% 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. 17.3 - 20.2VDC.

99(3.9) x 75(3.0) x 27.0(1.05) mm (in) 200g Natural Convection I/P-O/P, I/P-FG, O/P-FG: 500VDC/100M Ohms 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)

### **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 Specifications<sup>2</sup>:

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.

<sup>2</sup> 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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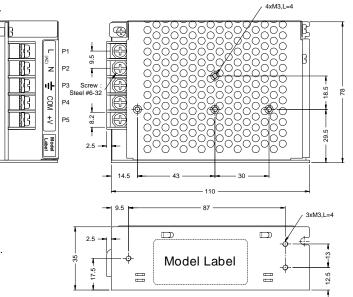






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### **Outline Dimensions (mm):**

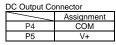


### NOTE : 1. All I/O connection shall

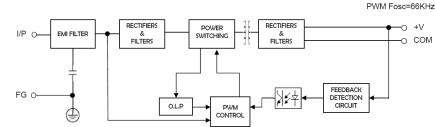
- Follow specified Model Label.
- 2. Temp =+50°C (max) at full load.

# **Connections:**

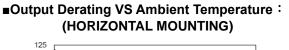
AC Input Connector	
	Assignment
P1	AC/L
P2	AC/N
P3	FG

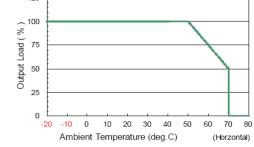


### **Block Diagram:**

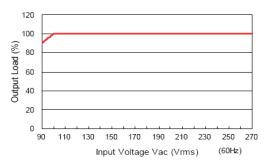


### **Derating Curve:**





### ■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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