

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

## ABU125-240

#### **Description:**

The ABU125-240 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: Power Factor: Leakage Current: 90-264VAC, 127-373VDC 47-63Hz 1.6A @ 115VAC, 0.8A @ 230VAC typ. 30A @115VAC, 60A @230VAC at cold start >0.95/230VAC, >0.98/115VAC at full load <2.4mA/240Vac

24VDC±2.0%Vdc

0-4.16A 100W

#### **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:

22.8 – 25.2V. Output voltage can be adjusted at VR51 120mVp-p ±1.0% ±0.5% 87.0% 1500ms/230VAC, 3000ms/115VAC, full load 30ms/230VAC, 30ms/115VAC, full load 14ms/230VAC, 14ms/115VAC, full load 5.72 – 7.8A. Hiccup mode. Resets automatically once the fault condition is removed. 27.6 – 32.4VDC.

#### Over Voltage Protection:

#### **General Specifications:**

Dimension (LxWxH): Weight: Cooling: Isolation Resistance: Dielectric Strength: Warranty: MTBF: 127(5.0) x 76.2(3.0) x 27.0(1.05) mm (in) 300g Natural Convection or FAN at 15CFM I/P—O/P, I/P—FG, O/P—FG: 500VDC/100M Ohms I/P—O/P:3KVAC; I/P—FG:1.5KVAC; O/P—FG:0.5KVAC 3 years 200K 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

 Temperature Drift:
 <0.04%/°C (0-50°C)</td>

 Vibration:
 10-500Hz, 2G 10min/cycle, period of 60min, each X, Y & Z axis

#### EMC & Safety Specifications<sup>2</sup>:

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

<sup>1</sup> Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted-pair wire termination with a 0.1uF & 47uF 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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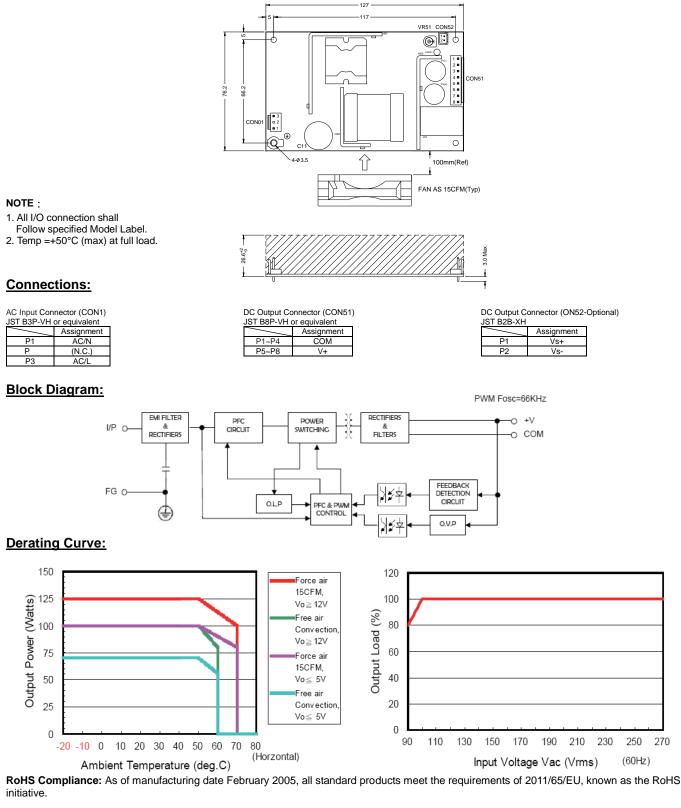


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#### **Outline Dimensions (mm):**



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

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