

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

# ABU125-480

#### Description:

The ABU125-480 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

#### **Output Characteristics:**

**Output Voltage:** 48VDC±2.0%Vdc Output Current (15CFM FAN): 0-2.6A **Output Current (Convection):** 0-2.1A Output Power(15CFM FAN): 124.8W Output Power(Convection): 100.8W Adjustable Output Range: 45.6 - 50.4V. Output voltage can be adjusted at VR51 Ripple & Noise<sup>1</sup>: 240mVp-p Load Regulation: ±1.0% Line Regulation: ±0.5% Efficiency: 88.0% Start-up Time: 1500ms/230VAC, 3000ms/115VAC, full load 30ms/230VAC, 30ms/115VAC, full load 14ms/230VAC, 14ms/115VAC, full load Rise-up Time: Hold-up Time: **Over Current Protection:** 2.86 - 3.9A. Hiccup mode. Resets automatically once the fault condition is removed. 55.2 - 64.8VDC.

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

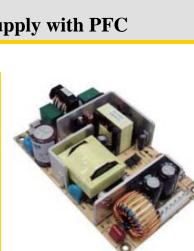
#### EMC & Safety Specifications<sup>2</sup>:

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)

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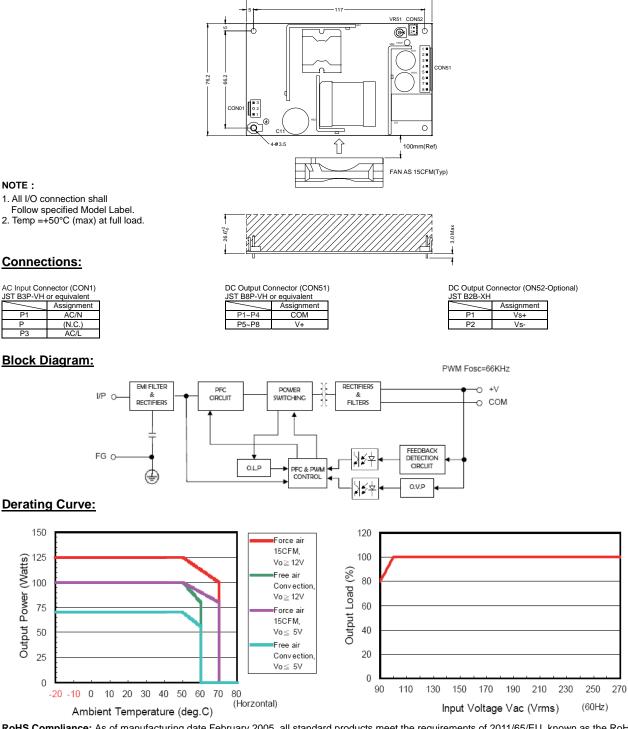


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#### **Outline Dimensions (mm):**



127

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.

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