

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

ABU125-150

Description:

The ABU125-150 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 (TUV EN60950).

Specifications (@25C)

Input Characteristics:

Input Voltage: 90-264VAC, 127-373VDC

Input Frequency Range: 47-63Hz

Input Current: 1.6A @ 115VAC, 0.8A @ 230VAC typ. Max Inrush Current: 30A@115VAC, 60A@230VAC at cold start >0.95/230VAC, >0.98/115VAC at full load Power Factor:

Leakage Current: <2.4mA/240Vac

Output Characteristics:

Output Voltage: 15VDC±2.0%Vdc

Output Current (15CFM FAN): 0-8.34A0-6.67A **Output Current (Convection):** Output Power(15CFM FAN): 125W **Output Power(Convection):** 100W

Adjustable Output Range: 14.3 - 15.7V. Output voltage can be adjusted at VR51

Ripple & Noise1: 100mVp-p Load Regulation: ±1.0% Line Regulation: ±0.5% Efficiency: 86.0%

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:

9.24 – 12.6A. Hiccup mode. Resets automatically once the fault condition is **Over Current Protection:**

removed.

Over Voltage Protection: 13.8 - 16.2VDC.

General Specifications:

Dimension (LxWxH): 127(5.0) x 76.2(3.0) x 27.0(1.05) mm (in) Weight: 300g

Cooling: Natural Convection or FAN at 15CFM

I/P-O/P, I/P-FG, O/P-FG: 500VDC/100M Ohms Isolation Resistance: Dielectric Strength: I/P-O/P:3KVAC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC

Warranty: 3 years

MTBF: 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 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, TUV EN60950-1 (insulation class -1) Safety Approval:





Publish Date: June 12, 2015

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

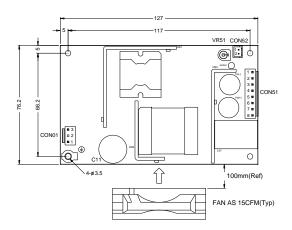
Web: www.TriadMagnetics.com Phone 951-277-0757 Fax 951-277-2757

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



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

Outline Dimensions (mm):



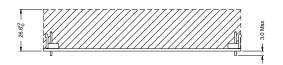
NOTE:

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

Connections:

AC Input Connector (CON1)

or equivalent
Assignment
AC/N
(N.C.)
AC/L

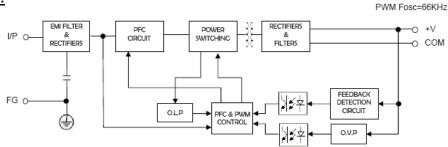


	nnector (CON51		
JST B8P-VH or equivalent			
	Assignment		
P1~P4	COM		
P5~P8	V+		

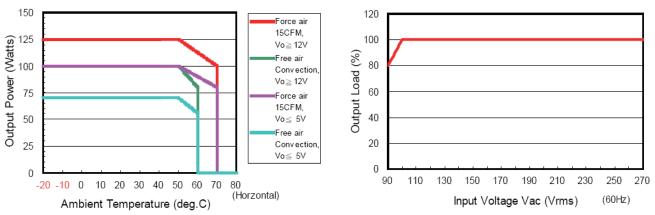
DC Output Connector (ON52-Optional) JST B2B-XH

	Assignment	
P1	Vs+	
P2	Vs-	

Block Diagram:



Derating Curve:



RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

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

460 Harley Knox Blvd. Perris, California 92571

Publish Date: June 12, 2015

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