

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

ABU125-360

Description:

The ABU125-360 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.

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: 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:

34.2 – 37.8V. Output voltage can be adjusted at VR51 200mVp-p ±1.0% ±0.5% 87.5% 1500ms/230VAC, 3000ms/115VAC, full load 30ms/230VAC, 30ms/115VAC, full load 14ms/230VAC, 14ms/115VAC, full load 3.85 – 5.25A. Hiccup mode. Resets automatically once the fault condition is removed. 41.4 – 48.6VDC.

Over Voltage Protection:

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

 Isolation Resistance:
 I/P—O/P, I/P—FG, O/P—FG: 500VDC/100M Ohms

 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)

36VDC±2.0%Vdc

0-2.78A

100W

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

 Comparative Drift:
 -0.04%°C (0-50°C)

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

EMC & Safety Specifications²:

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

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.

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

460 Harley Knox Blvd. Perris, California 92571

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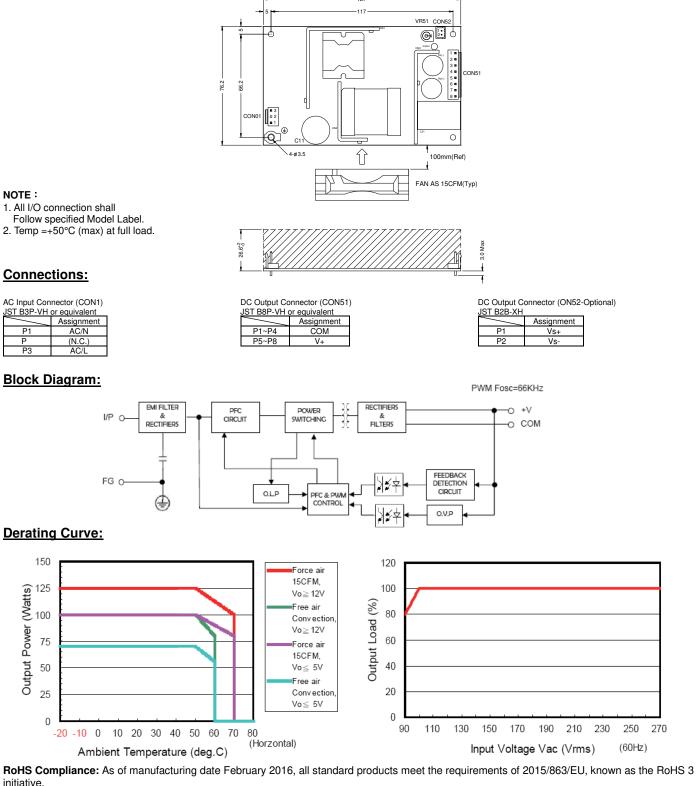
91 FC

¹ 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.



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Outline Dimensions (mm):



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

Web: www.TriadMagnetics.com460 Harley Knox Blvd.Publish Date: September 20, 2021Phone 951-277-0757Perris, California 92571Publish Date: September 20, 2021