

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

ABU125-050

Description:

The ABU125-050 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

5VDC±2.0%Vdc

0-14A 70W

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:

4.75 – 5.25V. Output voltage can be adjusted at VR51 100mVp-p ±1.0% ±0.5% 79.0% 1500ms/230VAC, 3000ms/115VAC, full load 30ms/230VAC, 30ms/115VAC, full load 14ms/230VAC, 14ms/115VAC, full load 22.0 – 30.0A. Hiccup mode. Resets automatically once the fault condition is removed. 5.75 – 6.75VDC.

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 Specifications²:

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

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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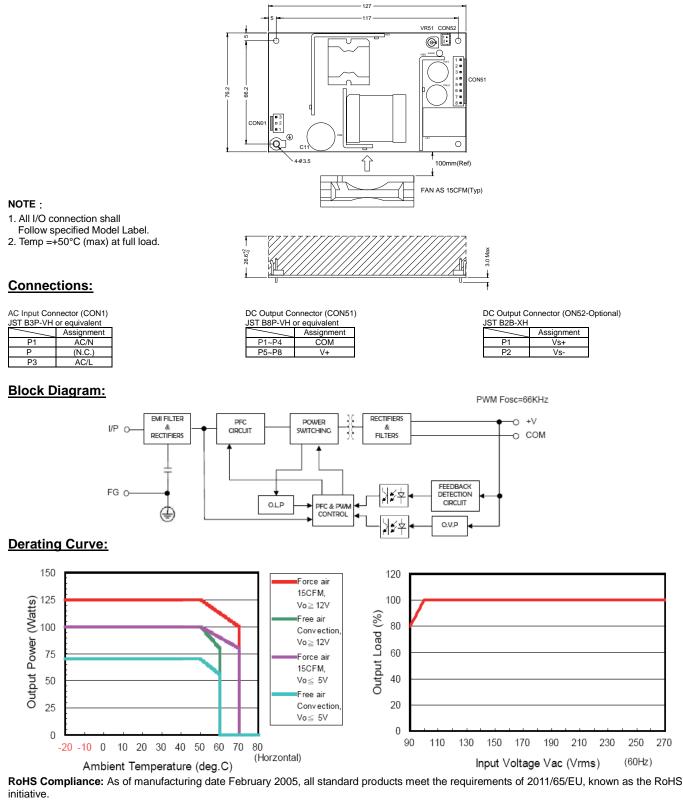
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Outline Dimensions (mm):



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