



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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:	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
Power Factor:	>0.95/230VAC, >0.98/115VAC at full load
Leakage Current:	<2.4mA/240Vac

Output Characteristics:

Output Voltage:	5VDC±2.0%Vdc
Output Current (Convection):	0-14A
Output Power(Convection):	70W
Adjustable Output Range:	4.75 – 5.25V. Output voltage can be adjusted at VR51
Ripple & Noise¹:	100mVp-p
Load Regulation:	±1.0%
Line Regulation:	±0.5%
Efficiency:	79.0%
Start-up Time:	1500ms/230VAC, 3000ms/115VAC, full load
Rise-up Time:	30ms/230VAC, 30ms/115VAC, full load
Hold-up Time:	14ms/230VAC, 14ms/115VAC, full load
Over Current Protection:	22.0 – 30.0A. Hiccup mode. Resets automatically once the fault condition is removed.
Over Voltage Protection:	5.75 – 6.75VDC.

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)

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:

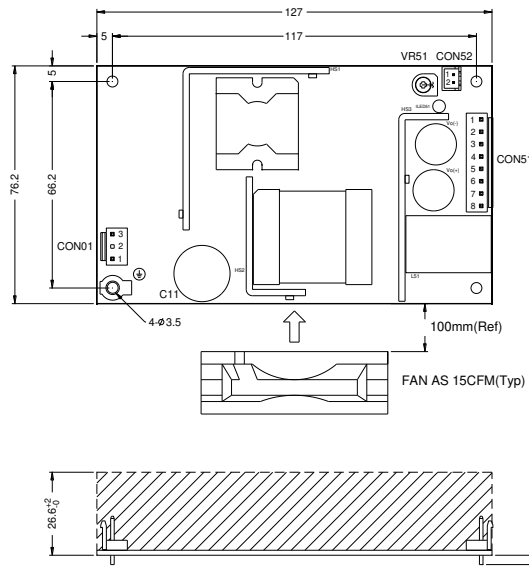
EMI Emissions:	Compliance to EN55022, CISPR22 Class B (Conducted & Radiated)
Harmonic Current:	Compliance to EN61000-3-2, 3
EMS Immunity:	Compliance to EN61000-4-2, 3-6, 8 & 11; EN55024 heavy, light industry level, criteria A
Safety Approval:	UL 60950-1, TUV EN60950-1 (insulation class -1)



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.

Outline Dimensions (mm):



NOTE :

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

Connections:

AC Input Connector (CON1)
JST B3P-VH or equivalent

Pin	Assignment
P1	AC/N
P	(N.C.)
P3	AC/L

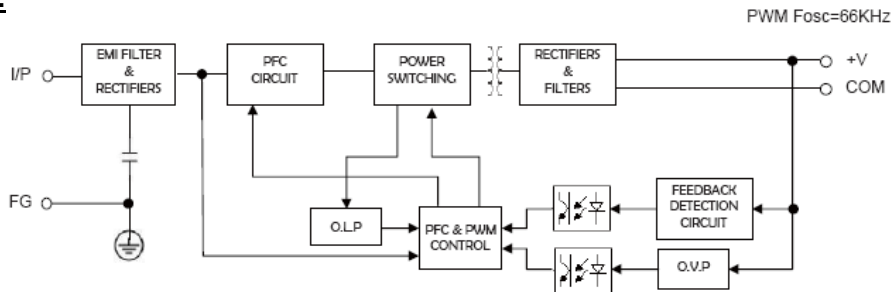
DC Output Connector (CON51)
JST B8P-VH or equivalent

Pin	Assignment
P1~P4	COM
P5~P8	V+

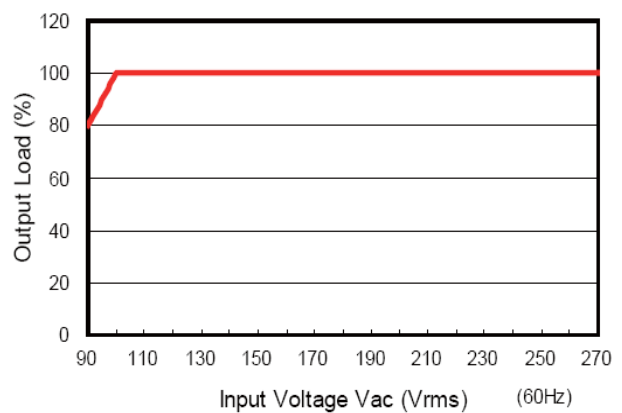
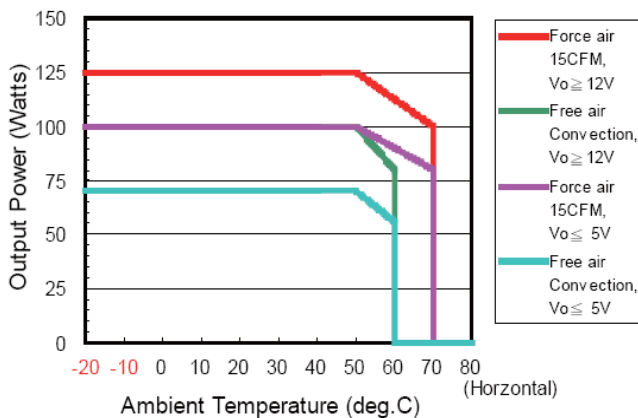
DC Output Connector (ON52-Optional)
JST B2B-XH

Pin	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.

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