



Size: 5in x 3in x 1.40in
(127mm x 76.2mm x 35.56mm)

FEATURES

- Wide Operating Voltage of 90~260VAC
- Internal EMI Filter
- Class I Insulation
- Active Power Factor Correction
- Synchronous Rectification
- Over Voltage, Short Circuit, and Over Load Protection
- UL60950-1: 2nd Edition, CSA C22.2 No.60950-1-07, IEC 60950-1:2005/A2:2013, EN 60905-1:2006/A2:2013 Safety Approvals

APPLICATIONS

- Industrial PC
- Electrical Test & Measurement Instruments
- Communication Equipment
- AV Equipment

DESCRIPTION

The PSSBU150 series of AC/DC switching mode power supplies provides 150 Watts of continuous output power in a compact, open frame constructed design. This series has single output supplies with a universal operating input range of 90~264VAC. These units are ideally suited for use in disc drive systems, microprocessor based systems, portable equipment, and many other applications. All models meet FCC Part-15 class B and CISPR-22 class B emission limits. These supplies also comply with UL60950-1: 2nd Edition, CSA C22.2 No.60950-1-07, IEC 60950-1:2005/A2:2013, EN 60905-1:2006/A2:2013 safety approvals. All units are 100% burn-in tested.

MODEL SELECTION TABLE

Model Number	Operate Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Total Regulation	Output Power	Typ. Efficiency
PSSBU150-104	90~260VAC	9VDC	16A	90mVp-p	±5%	144W	83%
PSSBU150-105		12VDC	12.5A	120mVp-p	±5%	150W	85%
PSSBU150-106		15VDC	10A	150mVp-p	±5%	150W	85%
PSSBU150-107		18VDC	8.33A	180mVp-p	±4%	150W	85%
PSSBU150-108		24VDC	6.25A	200mVp-p	±3%	150W	86%
PSSBU150-109		30VDC	5.00A	300mVp-p	±2%	150W	86%
PSSBU150-110		36VDC	4.17A	300mVp-p	±2%	150W	86%
PSSBU150-111		48VDC	3.13A	300mVp-p	±2%	150W	86%

SPECIFICATIONS

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range	Safety Approval Input Range	100		240	VAC
	Operate Voltage Range	90		260	
Input Frequency		47		63	Hz
Input Current	Low Line, Full Load, Vin=100VAC		2.0		A
	High Line, Full Load, Vin=240VAC		0.8		
Inrush Current	Low Line, Full Load, 25°C, Cool Start, Vin=100VAC			40	A
	High Line, Full Load, 25°C, Cool Start, Vin=240VAC			100	
Safety Ground Leakage Current	Vin=240VAC, FI=60Hz			0.75	mA
Power Factor Correction	Io=Full Load, Vin=240VAC	0.95		1	
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation ⁽³⁾	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation ⁽⁴⁾	Vin=230VAC, 10~90% Load Change at Condition	2		5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise ⁽⁵⁾		See Table			
Transient Response Time	Full Load, Vin=110VAC			4	mS
Start-Up Time	Full Load, Vin=100~240VAC			3	S
Hold-Up Time ⁽⁶⁾	Full Load, Vin=100VAC		16		mS
No Load Consumption			3.5		W
Temperature Coefficient				±0.04	%/°C
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Load Protection	Recovers Automatically after fault conditions is removed	110		150	%
Over Voltage Protection	Crowbar Mode	112		132	%

SPECIFICATIONS

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derate linearly from 100% load at 50°C to 50% load at 70°C	0		70	°C
Storage Temperature	10~95%RH	-40		85	°C
Operating Humidity	Non-Condensing	0		95	%RH
Storage Humidity		0		95	%RH
Operating Altitude	All Conditions			2000	m
Vibration	10~500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
MTBF	Operating Temperature at 25°C, per MIL-HDBK-217F	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency	Full Load, Vin=230VAC	See Table			
Dielectric Withstanding Voltage	Primary to Secondary			4242	VDC
	Primary to PE			2121	
Surge Voltage	Line-Neutral			1	kV
	Line-PE & Neutral-PE			2	kV
PHYSICAL SPECIFICATIONS					
Weight		13.76oz (390g)			
Dimensions (L x W x H)		5in x 3in x 1.40in (127mm x 76.2mm x 35.56mm)			
Cooling		Free Air Convection			
Flammability Rating		UL94V-1			
SAFETY CHARACTERISTICS					
Safety Approvals	UL60950-1:2 nd Edition CSA C22.2 No.60950-1-07 IEC60950-1:2005/A2:2013 EN60950-1:2006/A2:2013				
EMC Emission	Compliance to EN55022 (CISPR22)				Class B
Electrostatic Discharge	IEC61000-4-2	Air Discharge		8kV	
		Contact Discharge		4kV	
Protection Class	Class I				

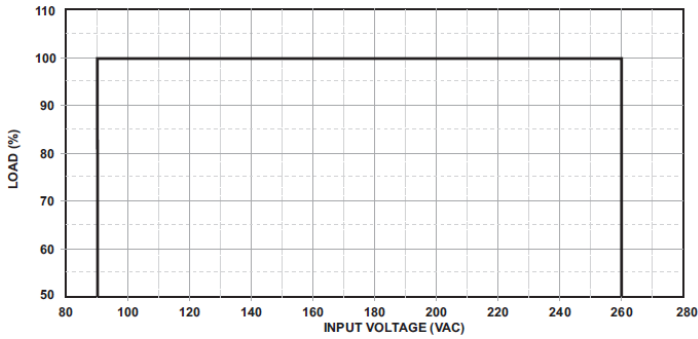
NOTES

- Output can provide up to peak load when power supply starts up. Staying in more than rated load continually is prohibited.
- At factory, in 60% rated load, each output is checked to be within voltage accuracy.
- Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load.
- Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.

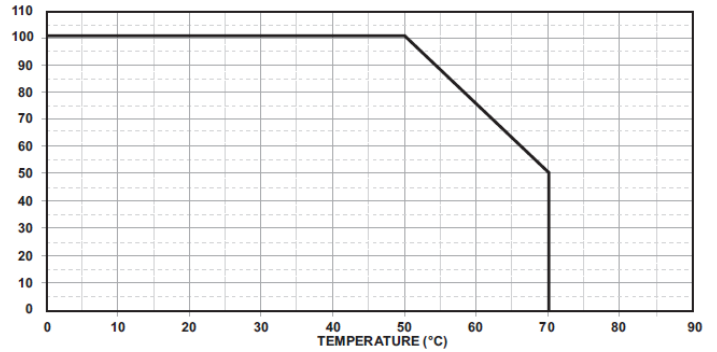
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES

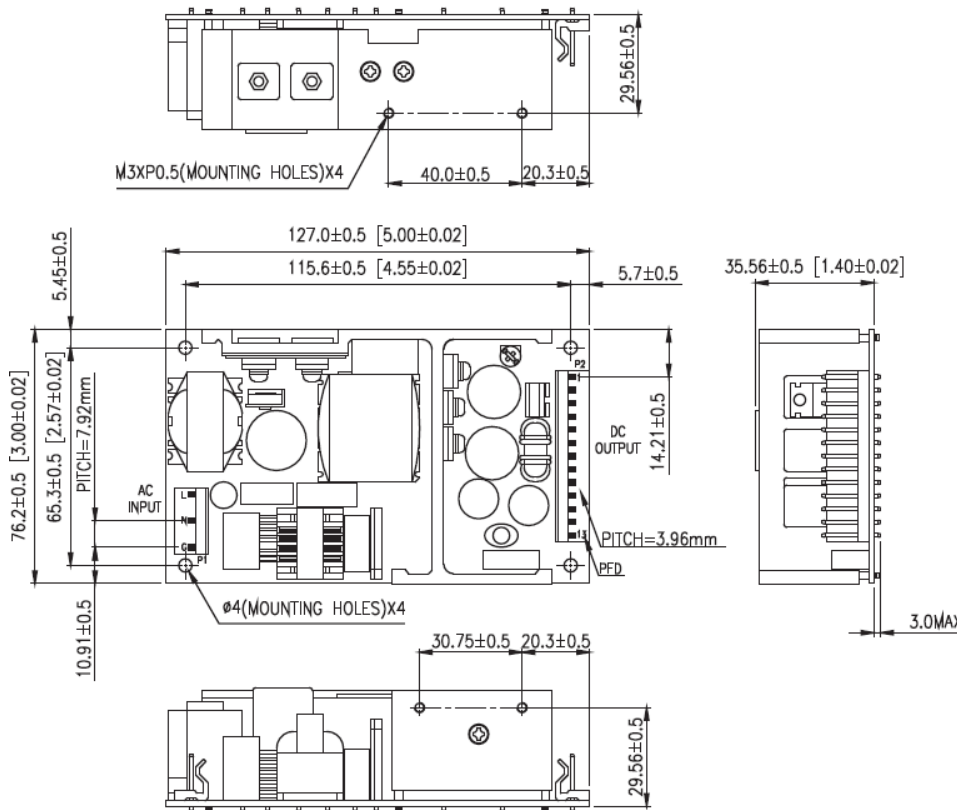
Input Voltage Derating Curve



Temperature Derating Curve



MECHANICAL DRAWINGS



Notes:

1. Dimensions are shown in mm.
2. Input connector mates with Molex housing 09-52-4054 and Molex 2478 series crimp terminal.
3. Output connector mates with Molex housing 09-52-4134 and Molex 2478 series crimp terminal.

PIN CHART

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13 (Optional)
	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN	PFD

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact **Wall Industries** for further information:

Phone: ☎(603)778-2300
Toll Free: ☎(888)597-9255
Fax: ☎(603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833