



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
- UL 60950-1: 2nd Edition, CSA C22.2 No. 60950-1-07, IEC 60950-1:2005/A2:2013, EN 60950-1:2006/A2:2013 Standard Safety Approvals
- IEC 62368-1 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 No. 62368-1-14, and EN 62368-1:2014/A11 Safety Approvals for "A" Suffix Models

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. The standard models of this series also comply with UL 60950-1: 2nd Edition, CSA C22.2 No. 60950-1-07, IEC 60950-1:2005/A2:2013, EN 60950-1:2006/A2:2013 safety approvals, while models with an "A" suffix comply with IEC 62368-1 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 No. 62368-1-14, and EN 62368-1:2014/A11 safety approvals. All units are 100% burn-in tested.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	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%

*MOQ is required. Please contact sales

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	Sine Wave	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 ⁽⁴⁾	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation ⁽⁵⁾	Vin=230VAC, 10~90% Load Change at Condition	2		5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise ⁽⁶⁾		See Table			
Transient Response Time	Full Load to Half Load, Vin=110VAC			4	mS
Start-Up Time	Full Load, Vin=100~240VAC			3	S
Hold-Up Time ⁽⁷⁾	Full Load, Vin=100VAC		16		mS
No Load Consumption			3.5		W
Temperature Coefficient	Full Load, Vin=100~240VAC			±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	%

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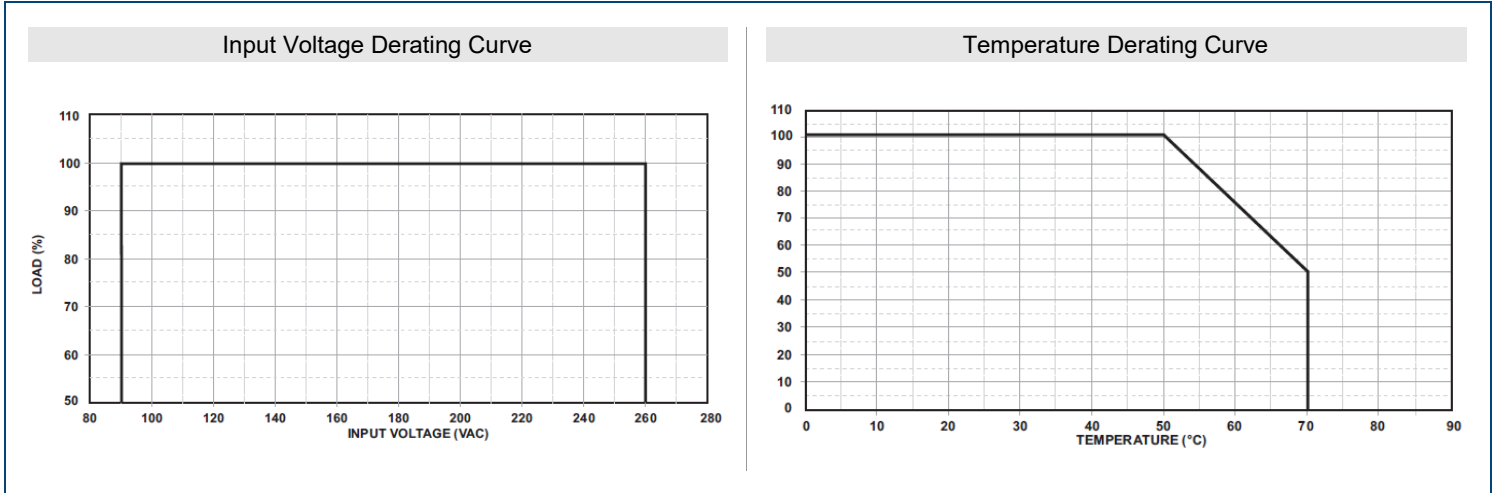
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derate linearly from 100% load at 50°C to 50% load at 70°C	0		70	°C
Storage Temperature	10~95%RH	-40		85	°C
Operating Humidity	Non-Condensing	0		95	%RH
Storage Humidity		0		95	%RH
Operating Altitude	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	Standard Models	UL 60950-1: 2 nd Edition, CSA C22.2 No. 60950-1-07, IEC 60950-1:2005/A2:2013, EN 60950-1:2006/A2:2013			
	"A" Suffix Model	IEC 62368-1 Edition 2.0 UL 62368-1 ^(A) CAN/CSA-C22.2 No. 62368-1-14 EN 62368-1:2014/A11			
EMC Emission		Compliance to EN55022 (CISPR22)			Class B
Electrostatic Discharge	IEC61000-4-2	Air Discharge			8kV
		Contact Discharge			4kV
Protection Class		Class I			

NOTES

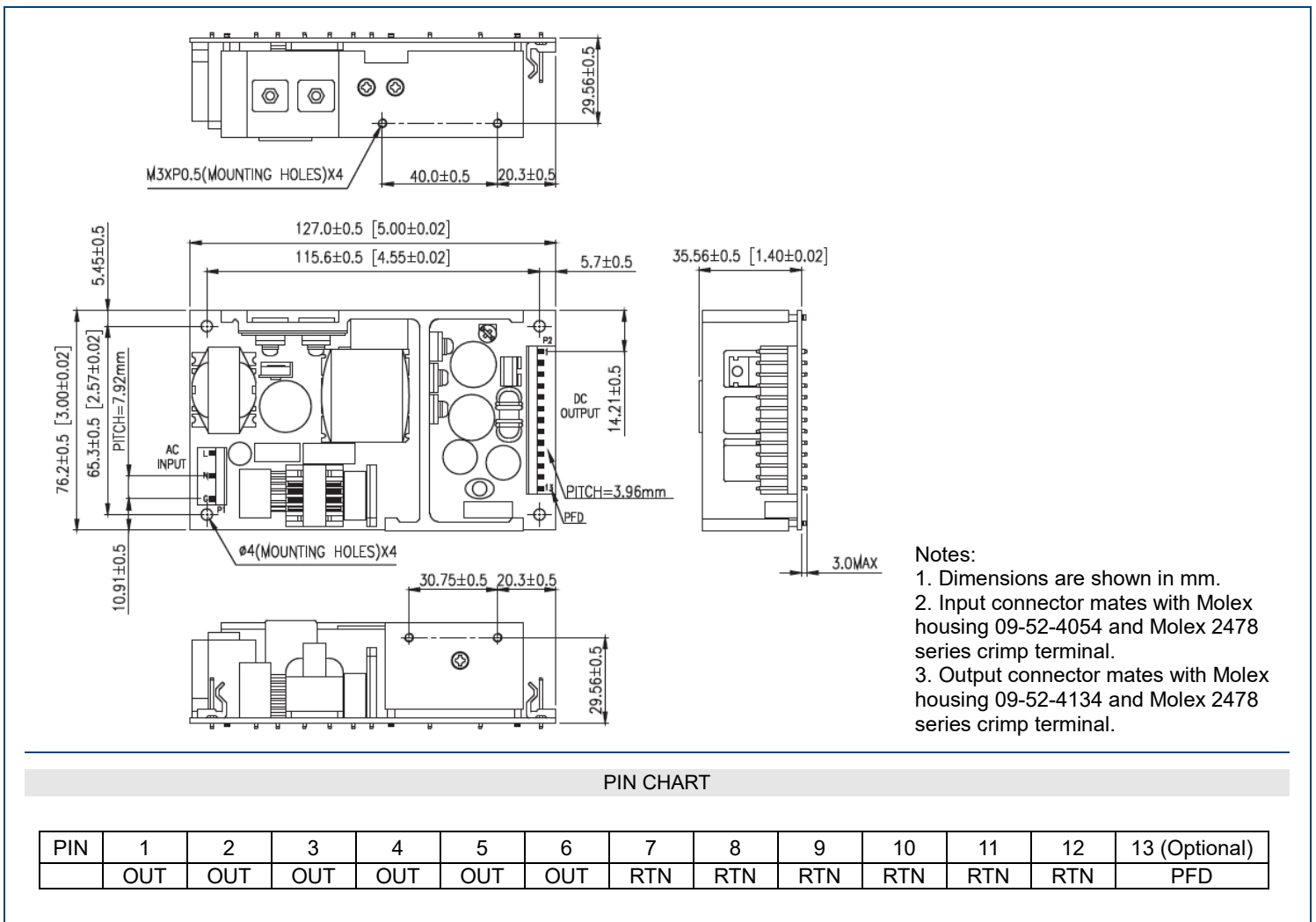
- Two sets of safety approvals are available. Standard models comply with UL 60950-1: 2nd Edition, CSA C22.2 No. 60950-1-07, IEC 60950-1:2005/A2:2013, EN 60950-1:2006/A2:2013. Add an "A" suffix to model numbers to indicate IEC 62368-1 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 No. 62368-1-14, and EN 62368-1:2014/A11 Safety Approvals.
- 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 ±10% of input voltage from nominal line at rated load.
- Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- Ripple & Noise is measured from peak to peak with a bandwidth limit of 20MHz (measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
- 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.
- This product is Listed to applicable standards and requirements by UL.

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

DERATING CURVES



MECHANICAL DRAWINGS



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: 2015 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:

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