

#### **FEATURES**

- Class I Insulation
- Internal EMI Filter
- 2-pin Input Connector
- Power Factor Correction
- Synchronous Rectification
- Power Fail Detect (Optional)
- Over Voltage Protection (Crowbar Design)
- Input Surge Current and Over Load Protection
- Output Voltage Available from 9VDC thru 48VDC
- 3-pin Input Connector Available (See PSSBU150 Series)



## **DESCRIPTION**

The PSSBU151 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 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 UL/cUL (UL 60950-1)<sup>(4)</sup>, TUV/Bauart (EN 60950-1), and new CE requirements. All units are 100% burn-in tested.

SPECIFICATIONS: PSSBU15	1 Series				
	sed on 25°C, Nominal Input Voltage, and Maximum Output Current u		rwise noted	d.	
SPECIFICATION We res	serve the right to change specifications based on technological advar	Min	Nom	Max	Unit
INPUT (V <sub>in</sub> )	1207 507127710110				<u> </u>
Operating Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	lo = Full Load. Vin = 115VAC			2.0	A
Input Current (High Line)	Io = Full Load, Vin = 230VAC			0.8	A
Inrush Current (Low Line)	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		12	15	A
Inrush Current (High Line)	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		26	30	Α
Safety Ground Leakage Current	Io = Full Load, Vin = 240VAC		0.4	0.75	mA
Start-Up Time	Io = Full Load, Vin = 100VAC	0.3	1	2	S
OUTPUT (V <sub>o</sub> )					
Output Voltage Range			See Rat	ing Chart	
Load Regulation	Vin = 230VAC		3	5	%
Line Regulation	lo = Full Load		0.5	1	%
Output Power	Vin = 90 to 264VAC			150	W
Output Current Range			See Rat	ing Chart	
Ripple & Noise (peak to peak)	Full Load, Vin = 90VAC		0.5	1	%
Transient Response	lo = Full Load to Half Load, Vin = 100VAC			4	ms
Hold-Up Time	Io = Full Load, Vin = 110VAC	16			ms
PROTECTION			1	<b>'</b>	<b>"</b>
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL					
Efficiency	Io = Full Load, Vin = 230VAC	85	88	90	%
Dielectric Withstanding Voltage For Primary to Secondary	Primary to Secondary	4242			VDC
Dielectric Withstanding Voltage For Primary to Ground	Primary to Ground	2121			VDC
Isolation Resistance	Test Voltage = 500VDC	50			ΜΩ
Power Factor Correction	Io = Full Load, Vin = 90~260VAC	0.95	0.97	1.0	
ENVIRONMENTAL		•	•		
Operating Temperature	Derate linearly from 100% Load at 50°C to 50% load at 70°C	0		+70	°C
Storage Temperature	,	-40		+85	°C
Relative Humidity		5		95	%
Temperature Coefficient	All Outputs	-0.04		+0.04	%/°C
PHYSICAL					1
Weight		Approximately 390 grams			
Dimensions		5.00(L) x 3.00(W) x 1.40(H) inches 127.0(L) x 76.2(W) x 35.56(H) mm			
SAFETY					` '
EMI Requirements for CISPR-22	Vin = 220VAC	В			Class
EMI Requirements for FCC PART-15	Vin = 110VAC	В			Class

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Rev C

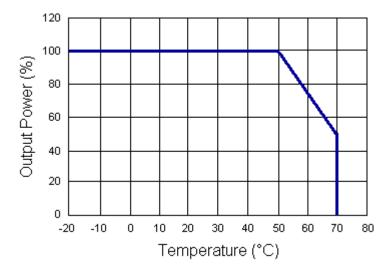


MODEL SELECTION TABLE						
Model Number	Preset Voltage	Output Current	Total Regulation	Maximum Output Power		
PSSBU151-104	9 VDC	16.0 A	5%	144 W		
PSSBU151-105	12 VDC	12.5 A	5%	150 W		
PSSBU151-106	15 VDC	10.0 A	5%	150 W		
PSSBU151-107	18 VDC	8.33 A	4%	150 W		
PSSBU151-108	24 VDC	6.25 A	3%	150 W		
PSSBU151-109	30 VDC	5.00 A	2%	150 W		
PSSBU151-110	36 VDC	4.17 A	2%	150 W		
PSSBU151-111	48 VDC	3.13 A	2%	150 W		

# **NOTES**

- 1. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
- 2. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal.
- 3. 3 pin input connector available: See PSSBU150 Series.
- 4. This product is Listed to applicable standards and requirements by UL.

### **DERATING CURVE**

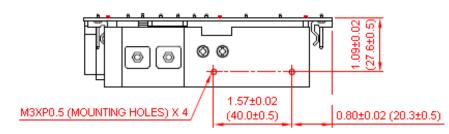


<sup>\*</sup>Due to advances in technology, specifications subject to change without notice.



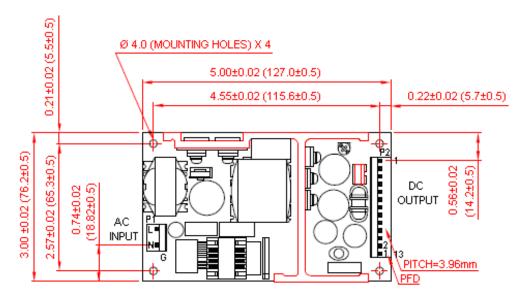
## MECHANICAL DRAWING

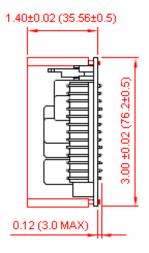
Unit: inches (mm)

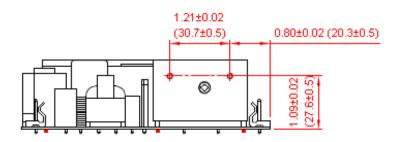


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PIN CONNECTIONS				
PIN	DESIGNATION			
1	OUT			
2	OUT			
3	OUT			
4	OUT			
5	OUT			
6	OUT			
7	RTN			
8	RTN			
9	RTN			
10	RTN			
11	RTN			
12	RTN			
13 (Optional)	RTN			





#### **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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