

**FEATURES**

- Class I Insulation
- Internal EMI Filter
- 3-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
- 2-pin Input Connector Available (See PSSUU151 Series)



**DESCRIPTION**

The PSSUU150 series of AC/DC switching mode power supplies provides 150 Watts of continuous output power in a compact, U 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.

<b>SPECIFICATIONS: PSSUU150 Series</b>					
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	Nom	Max	Unit
<b>INPUT (V<sub>in</sub>)</b>					
Operating Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (Low Line)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 115VAC			2.0	A
Input Current (High Line)	I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC			0.8	A
Inrush Current (Low Line)	I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 115VAC		16	20	A
Inrush Current (High Line)	I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 230VAC		56	63	A
Safety Ground Leakage Current	I <sub>o</sub> = Full Load, V <sub>in</sub> = 240VAC		0.5	0.75	mA
Start-Up Time	I <sub>o</sub> = Full Load, V <sub>in</sub> = 100VAC	0.3	1	2	s
<b>OUTPUT (V<sub>o</sub>)</b>					
Output Voltage Range		See Rating Chart			
Load Regulation	V <sub>in</sub> = 230VAC		3	5	%
Line Regulation	I <sub>o</sub> = Full Load		0.5	1	%
Output Power	V <sub>in</sub> = 90 to 264VAC			150	W
Output Current Range		See Rating Chart			
Ripple & Noise (peak to peak)	Full Load, V <sub>in</sub> = 90VAC		0.5	1	%
Transient Response	I <sub>o</sub> = Full Load to Half Load, V <sub>in</sub> = 100VAC			4	ms
Hold-Up Time	I <sub>o</sub> = Full Load, V <sub>in</sub> = 110VAC	16			ms
<b>PROTECTION</b>					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
<b>GENERAL</b>					
Efficiency	I <sub>o</sub> = Full Load, V <sub>in</sub> = 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			MΩ
Power Factor Correction	I <sub>o</sub> = Full Load, V <sub>in</sub> = 90~260VAC	0.95	0.97	1.0	
<b>ENVIRONMENTAL</b>					
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
<b>PHYSICAL</b>					
Weight		Approximately 560 grams			
Dimensions		5(L) x 3.21(W) x 1.62(H) inches			
<b>SAFETY</b>					
EMI Requirements for CISPR-22	V <sub>in</sub> = 220VAC	B			Class
EMI Requirements for FCC PART-15	V <sub>in</sub> = 110VAC	B			Class

**MODEL SELECTION TABLE**

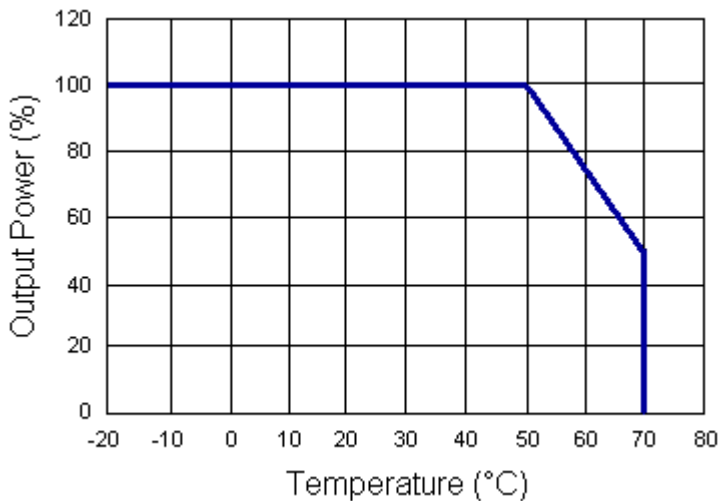
Model Number	Preset Voltage	Output Current	Total Regulation	Maximum Output Power
PSSUU150-104	9 VDC	16.0A	5%	144W
PSSUU150-105	12 VDC	12.5A	5%	150W
PSSUU150-106	15 VDC	10.0A	5%	150W
PSSUU150-107	18 VDC	8.33A	4%	150W
PSSUU150-108	24 VDC	6.25A	3%	150W
PSSUU150-108-27V	27 VDC	5.50A	3%	150W
PSSUU150-109	30 VDC	5.00A	2%	150W
PSSUU150-110	36 VDC	4.17A	2%	150W
PSSUU150-111	48 VDC	3.13A	2%	150W

**NOTES**

1. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
2. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal.
3. 2 pin input connector available: See PSSUU151 Series.
4. This product is Listed to applicable standards and requirements by UL.

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

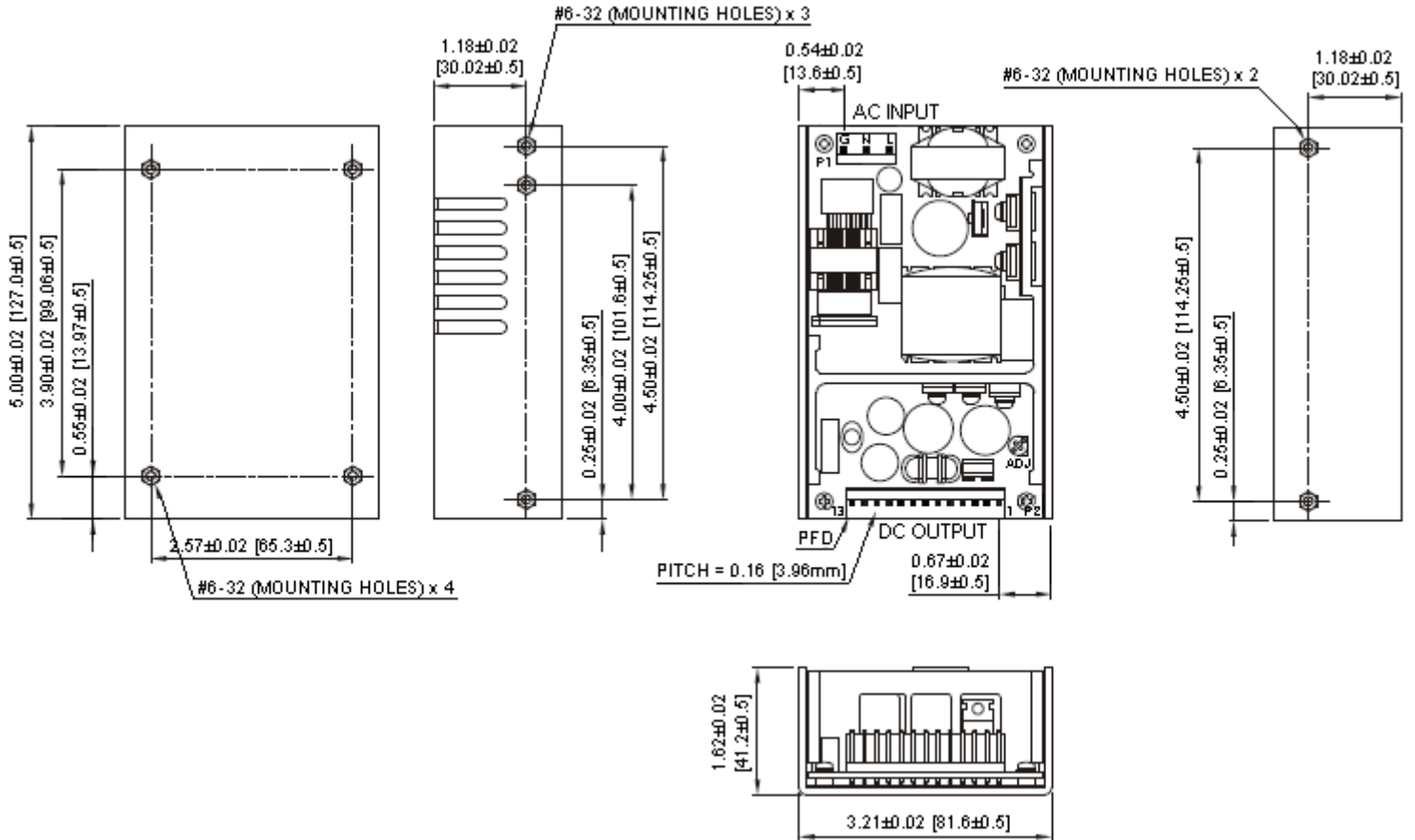
**DERATING CURVE**



## Wall Industries, Inc.

### MECHANICAL DRAWING

Unit: inches (mm)



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

**NOTES:**

1. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
2. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal.
3. 2 pin input connector available (see PSSUU151 Series).



Wall Industries, Inc.

Rev C

PSSUU150 Series  
3-pin Input Connector  
150 Watt, Single Output  
AC/DC Power Supply for I.T.E.

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## 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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