

FEATURES

- RoHS Compliant
- Class I Insulation
- Internal EMI Filter
- Single to Quad Outputs
- Dimensions: 5 x 3 x 1.09 Inches
- Output Voltage Protection (Crowbar Design)
- Output Voltages Available from 3VDC to 50VDC
- Wide Input Voltage Range: 90 ~264 VAC, 47 ~ 63Hz
- Input Surge Current, Over Voltage, and Over Load Protected



DESCRIPTION

The PSSBU60 series of AC/DC switching mode power supplies provides 63 Watts of continuous output power in a compact, open frame constructed design. This series has a universal input range with single, dual, triple, or quad outputs. 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)⁽⁴⁾, ITS/GS (EN 60950-1), and new CE requirements. All units are 100% burn-in tested.



SPECIFICATIONS: PSSBU60 Series						
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	
INPUT (V_{in})						
Operating Voltage Range		90		264	VAC	
Input Frequency		47		63	Hz	
Input Current (Low Line)	I _o = Full Load, V _{in} = 115VAC			1.6	A	
Input Current (High Line)	I _o = Full Load, V _{in} = 230VAC			1.0	A	
Inrush Current (Low Line)	I _o = Full Load, 25°C, Cool Start, V _{in} = 115VAC		12	15	A	
Inrush Current (High Line)	I _o = Full Load, 25°C, Cool Start, V _{in} = 230VAC		26	30	A	
Safety Ground Leakage Current	I _o = Full Load, V _{in} = 240VAC		0.4	0.75	mA	
Start-Up Time	I _o = Full Load, V _{in} = 100VAC	0.3	1	2	s	
OUTPUT (V_o)						
Output Voltage Range		See Rating Chart				
Load Regulation	V _{in} = 230VAC		3	7	%	
Line Regulation	I _o = Full Load		0.5	1	%	
Output Power	V _{in} = 90 to 264VAC	0		63	W	
Output Current Range		See Rating Chart				
*Ripple & Noise (peak to peak)	Full Load, V _{in} = 90VAC		0.5	1	%	
Transient Response Time	I _o = Full Load to Half Load, V _{in} = 100VAC			4	ms	
Hold-Up Time	I _o = Full Load, V _{in} = 110VAC	12			ms	
PROTECTION						
Over Voltage Protection		112		132	%	
Over Current Protection		110		150	%	
GENERAL						
Efficiency	I _o = Full Load, V _{in} = 230VAC	70	80	88	%	
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	
ENVIRONMENTAL						
Operating Temperature	Derate linearly from 100% Load at 40°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	
MTBF	Operating Temperature at 25°C, calculated per MIL-HDBK-217F	100,000 hours				
PHYSICAL						
Weight		Approximately 250 grams				
Dimensions		5.0(L) x 3.0(W) x 1.09(H) inches 127.0(L) x 76.2(W) x 27.6(H) mm				
SAFETY						
EMI Requirements for CISPR-22	V _{in} = 220VAC	B			Class	
EMI Requirements for FCC PART-15	V _{in} = 110VAC	B			Class	

*Note: The Ripple & Noise for output voltages under 3.3VDC is 2% max.



MODEL SELECTION TABLES

Table with 6 columns: Model Number, Preset Voltage, Output Voltage Range, Output Current Range, Total Regulation, Maximum Output Power. Rows include PSSBU60-101 to PSSBU60-111.

Table with 10 columns: Model Number, Output #1 (Vo, Io, Reg), Output #2, Output #3, Maximum Output Power. Rows include PSSBU60-200 to PSSBU60-221.

Table with 14 columns: Model Number, Output #1, Output #2, Output #3, Maximum Output Power. Rows include PSSBU60-300 to PSSBU60-308-1.

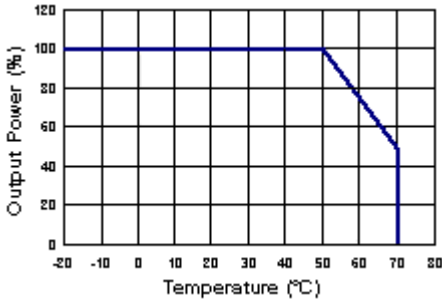
Table with 17 columns: Model Number, Output #1, Output #2, Output #3, Output #4, Output Power. Rows include PSSBU60-400 to PSSBU60-423.

NOTES

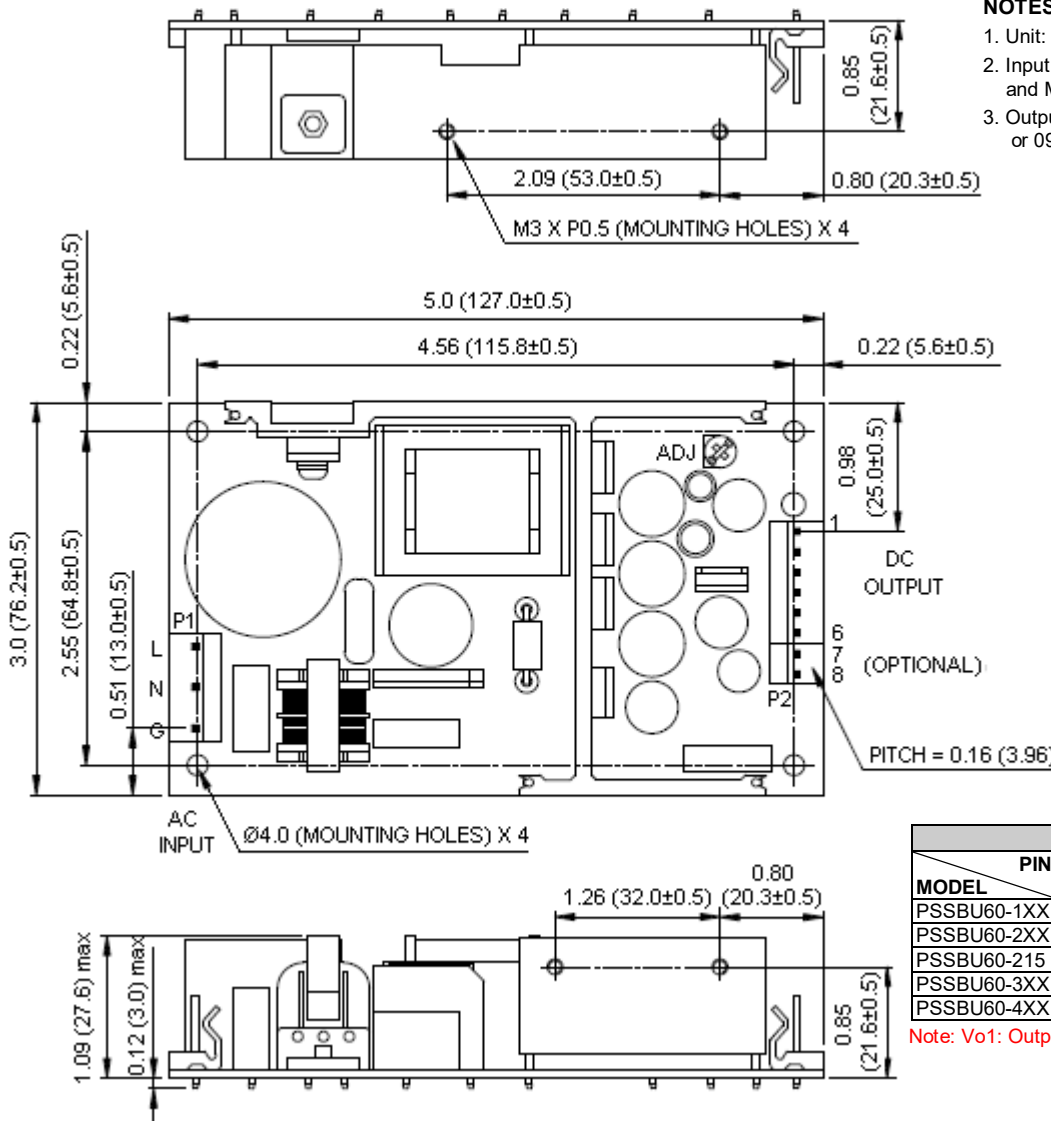
1. On single output models the output voltage is specified as a range (Ex: 40 ~ 50VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.
2. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
3. Output connector mates with Molex housing 09-50-3061 or 09-50-3081 and Molex 2478 series crimp terminal.
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



MECHANICAL DRAWING



NOTES:

1. Unit: inches (mm)
2. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
3. Output connector mates with Molex housing 09-50-3061 or 09-50-3081 and Molex 2478 series crimp terminal.

PIN CHART									
MODEL	PIN	1	2	3	4	5	6	7	8
PSSBU60-1XX	OUT	OUT	OUT	RTN	RTN	RTN			
PSSBU60-2XX	Vo2	Vo1	Vo1	COM	COM	N/C			
PSSBU60-215	N/C	Vo1	Vo1	COM	COM	Vo3			
PSSBU60-3XX	Vo2	Vo1	Vo1	COM	COM	Vo3			
PSSBU60-4XX	Vo2	Vo1	Vo1	COM	COM	Vo3	Vo4	Vo4	

Note: Vo1: Output#1 Vo2: Output#2 Vo3: Output#3 Vo4: Output#4



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:

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

©2019 Wall Industries, Inc. Specifications subject to change without notice. Wall Industries is not responsible for typographical errors. The information contained herein is for informational purposes only. This information is provided by Wall Industries and we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information contained in this document for any purpose. All product and manufacturer names are trademarks or registered trademarks of their respective companies.