







Size:

3.98 x 2.00 x 1.00 inches 101.0 x 50.8 x 25.4 mm

APPLICATIONS

- **Blood Pressure Systems**
- Portable Medical Devices
- **ECG Machines**

FEATURES

- **RoHS Compliant**
- Class I
- **60 Watts Output Power**
- Single Outputs
- Up to 89% High Efficiency
- Free Air Convection Cooling
- 100% Burn-in Tested

- Open Frame Design
- 90-264VAC Input Voltage Range
- Over Current and Over Voltage Protection
- < 0.5W No Load Power Consumption
- ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd Edition), EN 60601-1:2006 (TUV/T-mark 3rd Edition)
- Input to Output: 2MOPP

DESCRIPTION

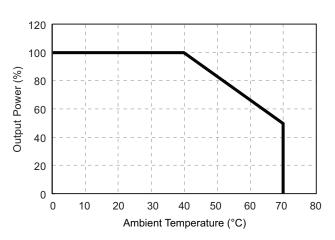
The PSMHBU60 series of class I medical AC/DC switching power supplies provides 60 Watts of continuous output power in a 3.98" x 2.00" x 1.00" open frame package. This series consists of single output models with a wide input voltage range of 90~264VAC. Some features include high efficiency up to 89%, 2MOPP insulation, < 0.5W no load power consumption, and over current and over voltage protection. All models meet FCC Part-18 class B and CISPR-11 EN55011 class B emission limits. This series also has ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd edition) and EN 60601-1:2006 (TUV/T-mark 3rd edition) medical approvals. All models are RoHS compliant and have been 100% burn-in tested.

MODEL SELECTION TABLE								
Model Number	Input Voltage Range	Output Voltage (1)	Output Current	Total Regulation	Output Power			
PSMHBU60-105	100~240 VAC	12 ~ 13 VDC	5.00 ~ 4.61 A	5%	60W			
PSMHBU60-106		13 ~ 16 VDC	4.61 ~ 3.75 A	5%	60W			
PSMHBU60-107		16 ~ 21 VDC	3.75 ~ 2.85 A	5%	60W			
PSMHBU60-108		21 ~ 27 VDC	2.85 ~ 2.22 A	3%	60W			
PSMHBU60-109		27 ~ 33 VDC	2.22 ~ 1.81 A	3%	60W			
PSMHBU60-110		33 ~ 40 VDC	1.81 ~ 1.50 A	3%	60W			

NOTES

- 1. The output voltage is specified as a range (ex: 33~40VDC); the customer must specify what they would like the output voltage set at.
- 2. Recommended to be used on metal chassis.

DERATING





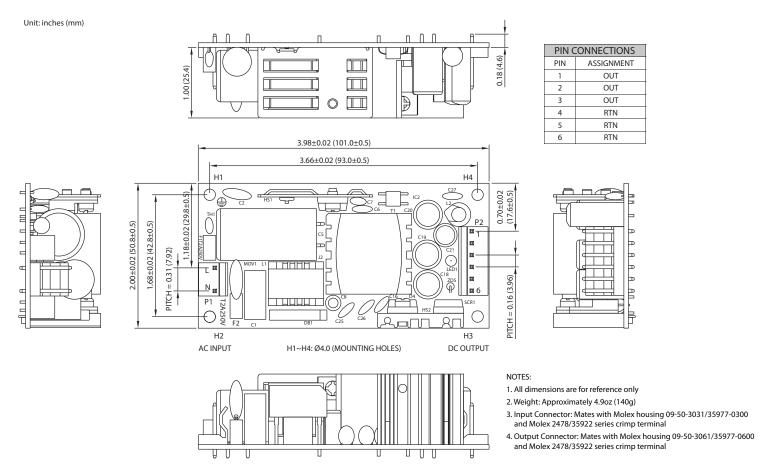
SPECIFICATIONS: PSMHBU60 SERIES

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	Тур	Max	Unit		
INPUT SPECIFICATIONS							
Input Voltage	Safety Approvals Input Voltage Range	100		240	VAC		
Input Voltage	Operating Input Voltage Range	90		264	VAC		
Input Frequency		47		63	Hz		
Input Current	100VAC, full load		1.62		Α		
input current	240VAC, full load		0.72		^		
Inrush Current	100VAC, full load, 25°C, cold start			31	Α		
illusii culiciic	230VAC, full load, 25°C, cold start			62	^		
No Load Power Consumption	230VAC, no load			0.5	W		
OUTPUT SPECIFICATIONS							
Output Voltage			See	Table			
Line Regulation	LL to HL, full load			1	%		
Load Regulation	230VAC			5	%		
Output Power				60	W		
Output Current	rt Current		See Table				
Ripple & Noise (peak to peak)	90VAC, full load			1	%		
Hold-up Time	110VAC, full load	12			ms		
Start-up Time	100VAC, full load	0.3		2	S		
Transient Response Time	100VAC, Full load to half load			4	ms		
Temperature Coefficient	0~50°C	-0.04		+0.04	%/°C		
PROTECTION							
Over Voltage Protection		112		132	%		
Over Current Protection		110		150	%		
GENERAL SPECIFICATIONS							
Efficiency	230 VAC, full load	78.4		89	%		
S. L	Primary to Secondary (2MOPP Insulation)	6492			1/06		
Dielectric Withstanding Voltage	Primary to PE	2121			VDC		
Isolation Resistance	Test Voltage = 500VDC	50			ΜΩ		
Leakage Current	240VAC/60Hz			0.25	mA		
ENVIRONMENTAL SPECIFICATIONS							
Operating Temperature	Derating linearly from 100% Load at 40°C to 50% load at 70°C	0		+70	°C		
Storage Temperature		-40		+85	°C		
Operating Humidity		0		95	%		
Storage Humidity		0		95	%		
Operating Altitude			Up to	3000m			
Cooling		Free air convection					
MTBF	MIL-HDBK-217F, 25°C	100,000			hours		
PHYSICAL SPECIFICATIONS							
Weight			4.9oz	(140g)			
Dimensions (L x W x H)	3.	.98 x 2.00 x 1.00			x 25.4 mm)		
Input Connector	Mates with Molex housing 09-50-3031/35977-030						
Output Connector	Mates with Molex housing 09-50-3061/35977-060				•		
SAFETY & EMC							
Safety Approvals	ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd edition)	; EN 60601-1:20	006 (TUV/T	-mark 3rd e	edition); CE		
EMI Requirements for CISPR-11	220VAC	В			Class		



MECHANICAL DRAWING



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.

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