



Size:
5.00 x 3.00 x 1.44 inches
127.0 x 76.2 x 36.6 mm

FEATURES

- Class I
- RoHS Compliant
- Active Power Factor Correction
- 5" x 3" x 1.44" Open Frame Package
- 12VDC & 24VDC Single Outputs
- 150 Watts Output Power
- Input to Output: 2MOPP
- Up to 89% High Efficiency
- Wide Input Voltage Range: 90~260VAC, 47~63Hz
- Over Voltage & Over Current Protection
- Meets FCC Part-18 Class B & CISPR-11 EN55011 Class B Emission Limits
- ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd Edition) & EN 60601-1: 2006 (TUV/T-mark 3rd Edition)
- 100% Burn-in Tested

DESCRIPTION

The PSMBU152 series of class I medical AC/DC switching power supplies provides 150 Watts of continuous output power in a 5.00" x 3.00" x 1.44" open frame package. This series consists of 12VDC and 24VDC single output models with a wide input voltage range of 90~260VAC. Some features include high efficiency up to 89%, active power factor correction, 2MOPP insulation, 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.

SPECIFICATIONS: PSMBU152 SERIES

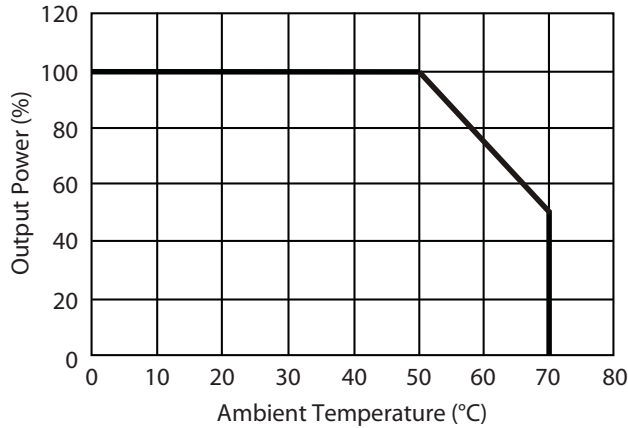
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage	Safety Approvals Input Voltage Range	100		240	VAC
	Operating Input Voltage Range	90		260	
Input Frequency		47		63	Hz
Input Current	100VAC, full load	1.74		1.76	A
	240VAC, full load	0.71		0.73	
Inrush Current	115VAC, full load, 25°C, cold start			50	A
	230VAC, full load, 25°C, cold start			100	
No Load Power Consumption	230VAC, no load			1.2	W
Power Factor Correction	240VAC, full load	0.95		1	
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	LL to HL, full load	0.5		1	%
Load Regulation	230VAC	3		5	%
Output Power				150	W
Output Current		See Table			
Ripple & Noise (peak to peak)	90VAC, full load			1	%
Hold-up Time	110VAC, full load	20			ms
Start-up Time	100VAC, full load			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	230VAC, full load	84		89	%
Dielectric Withstanding Voltage	Primary to Secondary (2MOPP Insulation)	6990			VDC
	Primary to PE	2121			
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Leakage Current	240VAC/60Hz			0.25	mA
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derating linearly from 100% Load at 50°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				3000	m
Cooling		Free air convection			
MTBF	MIL-HDBK-217F, 25°C	100,000			hours
PHYSICAL SPECIFICATIONS					
Weight		14.82oz (420g)			
Dimensions (L x W x H)		5.00 x 3.00 x 1.44 inches (127.0 x 76.2 x 36.6 mm)			
Input Connector		See mechanical drawing			
Output Connector		See mechanical drawing			
SAFETY & EMC					
Safety Approvals	ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd edition); EN 60601-1:2006 (TUV/T-mark 3rd edition); CE				
EMI Requirements for CISPR-11	220VAC	B			Class
EMI Requirements for FCC PART-18	110VAC	B			Class

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Total Regulation	Output Power
PSMBU152-105	90 ~ 260 VAC	12 VDC	12.5A	120mVp-p	5%	150W
PSMBU152-108		24 VDC	6.25A	240mVp-p	3%	150W

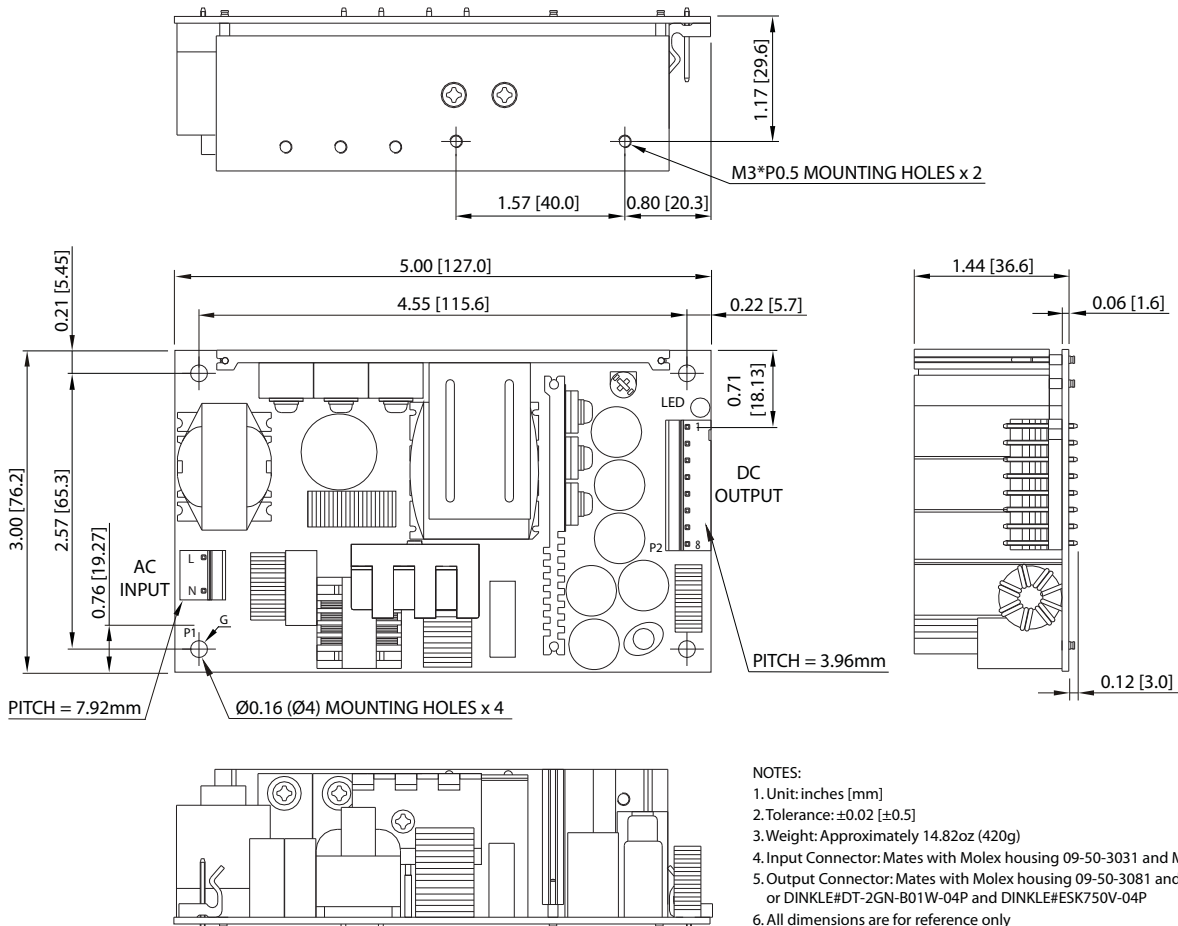
DERATING



NOTES:

- Operating Temperature: 0°C to +70°C
- Derating linearly from 100% load at 50°C to 50% load at 70°C

MECHANICAL DRAWING



PIN CONNECTIONS	
Pin	Assignment
1	Vout
2	Vout
3	Vout
4	Vout
5	RTN
6	RTN
7	RTN
8	RTN

NOTES:

- Unit: inches [mm]
- Tolerance: ±0.02 [±0.5]
- Weight: Approximately 14.82oz (420g)
- Input Connector: Mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal
- Output Connector: Mates with Molex housing 09-50-3081 and Molex 2478 series crimp terminal or DINKLE#DT-2GN-B01W-04P and DINKLE#ESK750V-04P
- All dimensions are for reference only

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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