



SPECIFICATIONS: PSMBU152 SERIES

Size: 5.00 x 3.00 x 1.46 inches (127.0 x 76.2 x 37.1 mm)

FEATURES

- Class I
- RoHS Compliant
- Active Power Factor Correction
- Flammability Rating of UL94V-1
- 12VDC & 24VDC Single Outputs
- 150 Watts Output Power
- Input to Output: 2MOPP
- Up to 86% High Efficiency
- Wide Input Voltage Range: 90~260VAC, 47~63Hz
- Short Circuit, Over Voltage, & Over Load Protection
- Meets FCC Part-18, CISPR-11, and EN55011 Class B Emission Limits
- IEC60601-1 Edition 3.1, ES60601-1:2005(R2012), CSAC22.2 NO. 60601-1:14, and EN60601-1:2006/A1:2013 Safety Approvals
- 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 1.46" 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 short circuit, over current and over load protection. All models meet FCC Part-18, CISPR-11, and EN55011 Class B class B emission limits. This series also has IEC60601-1 Edition 3.1, ES60601-1:2005(R2012), CSAC22.2 NO. 60601-1:14, and EN60601-1:2006/A1:2013 safety approvals. All models are RoHS compliant and have been 100% burn-in tested.

	We reserve the right to change specifications based on technological	advances.				
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS		<u>'</u>				
I	Safety Approvals Input Voltage Range	100		240	1/40	
Input Voltage	Operating Input Voltage Range	90		260	VAC	
Input Frequency		47		63	Hz	
It Ot	Low Line, 100VAC, full load	1.74	1.76			
Input Current	High Line, 240VAC, full load	0.73		Α		
Inrush Current	Low Line, 100VAC, full load, 25°C, cold start			50	^	
	High Line, 240VAC, full load, 25°C, cold start			100	Α	
No Load Power Consumption						
Power Factor Correction	240VAC, full load	0.95		1		
OUTPUT SPECIFICATIONS						
Output Voltage			See Ta	able		
Line Regulation ⁽³⁾	Full load, Vin=100~120VAC or 200~240VAC	0.5		1	%	
Total Regulation ⁽⁴⁾	12VDC Model		±5		01	
	24VDC Model		±3		%	
Output Power				150	W	
Output Current	See Table					
Ripple & Noise ⁽⁵⁾		See Table				
Hold-up Time ⁽⁶⁾	110VAC, full load	20			ms	
Start-up Time	100~240VAC, full load			3	s	
Transient Response Time	110VAC, Full load to half load			4	ms	
Temperature Coefficient	0~50°C	-0.04		+0.04	%/°C	
PROTECTION		0.01		0.01	7.0,	
Over Voltage Protection		112		132	%	
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%	
Short Circuit Protection	,, ,		Automatic F	Recovery		
GENERAL SPECIFICATIONS			, (0.0			
Efficiency	230VAC, full load See Table					
	Primary to Secondary (Limit Current <10mA)			4000	T	
Dielectric Withstanding Voltage	Primary to PE (Limit Current <10mA)			1500	VAC	
Insulation Resistance	Primary to Secondary, 500VDC, 25°XC/70% RH	50			ΜΩ	
Safety Ground Leakage Current	240VAC/60Hz			0.1	mA	
ENVIRONMENTAL SPECIFICATIONS				U. 1		
Operating Temperature	Derating linearly from 100% Load at 50°C to 50% load at 70°C	-10		+70	°C	
Storage Temperature	10~95% RH	-40		+85	°C	
Operating Humidity	Non-Condensing	0		95	%	
Storage Humidity	V	0		95	%	
Operating Altitude		_		3000	m	
Cooling			Free air co			
MTBF	MIL-HDBK-217F, 25°C	200,000			hours	
PHYSICAL SPECIFICATIONS	, == -					
Weight	14.82oz (420g)					
Dimensions (L x W x H)		5.00 x 3.00 x			x 37.1 mm)	
SAFETY & EMC						
Safety Approvals	IEC60601-1 Edition 3.1, ES60601-1:2005(R2012), C	SAC22.2 NO F	0601-1:14. F	N60601-1:20	06/A1:2013	
EMC Emission	Compliance to EN55011 (CISPR11), EN60601-1-2	В		.,	Class	
	Air Discharge, IEC61000-4-2	_		15		
Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	kV	



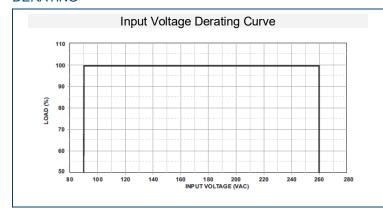
MODEL SELECTION TABLE										
Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Efficiency	Total Regulation	Output Power			
PSMBU152-105	90 ~ 260 VAC	12 VDC	12.5A	100mVp-p	84%	±5%	150W			
PSMBU152-108		24 VDC	6.25A	100mVp-p	86%	±3%	150W			

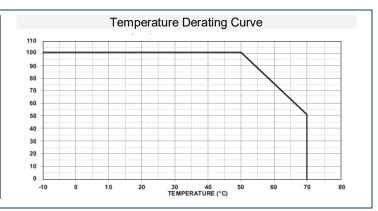
NOTES

- 1. Output can provide up to peak load when power supply starts up. Staying in more than rated load continually is not allowed.
- 2. At factory in 60% rated load condition, each output is checked to be within voltage accuracy.
- 3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- 5. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- 6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.

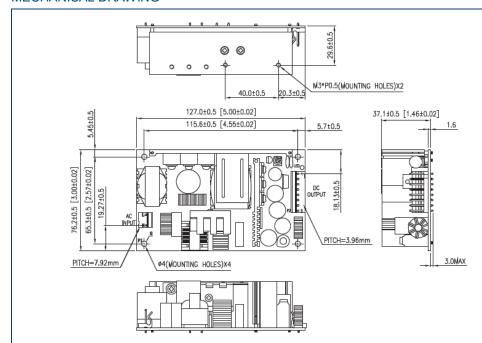
Due to advances in technology, specifications subject to change without notice.

DERATING-





MECHANICAL DRAWING



NOTES:

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.



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.

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