



4.00 x 2.00 x 1.02 in

FEATURES

- Class I
- RoHS Compliant
- Internal EMI Filter
- 100 Watts Output Power
- Active Power Factor Correction
- 100% Burn-in Tested

DESCRIPTION

- Single Output Voltages Available from 11VDC to 55VDC
- Short Circuit, Over Voltage, and Over Load Protection
- Wide Input Voltage Range: 90~260VAC, 47~63Hz
- Meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits
- UL 60950-1:2nd Edition, CSA C22.2 No.60950-1-07, IEC60950-1:2005/A2:2013, and EN60950-1:2006/A2:2013 Safety Approvals

 Weight:
 6.3~8.8oz

 (180~250g)
 and meets FCC Part-15 class B and CISPR-22 Class B emission limits. These supplies are well suited for use in industrial equipment as well as many other applications.

MODEL SELECTION TABLE							
Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation	Ripple & Noise	Output Power	Typ. Efficiency
PSSBU99-105	90 ~ 260 VAC	11~13 VDC	7.69~8.33A	±3%	100mVp-p	100W	87%
PSSBU99-106		13~16 VDC	6.25~7.69A	±3%	120mVp-p	100W	87%
PSSBU99-107		16~21 VDC	4.76~6.25A	±3%	150mVp-p	100W	88%
PSSBU99-108		21~27 VDC	3.70~4.76A	±3%	150mVp-p	100W	88%
PSSBU99-109		27~33 VDC	3.03~3.70A	±3%	200mVp-p	100W	88%
PSSBU99-110		33~40 VDC	2.50~3.03A	±3%	200mVp-p	100W	88%
PSSBU99-111		40~48 VDC	2.00~2.50A	±3%	200mVp-p	100W	89%
PSSBU99-112		50~55 VDC	1.81~2.00A	±3%	200mVp-p	100W	89%

TECHNICAL SPECIFICATIONS: PSSBU99 SERIES

TECHNICAL SPECIFICATIC						
All specification	ons are based on 25°C, Nominal Input Voltage, and Maximum Output C		erwise note	d.		
	We reserve the right to change specifications based on technologic		I —			
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		260		
Input Frequency	Sine Wave	47		63	Hz	
Innut Current	100VAC, full load		1.4		Α	
Input Current	240VAC, full load		0.58			
Inrush Current	100VAC, full load, 25°C, cold start			50	٨	
Infusit Current	240VAC, full load, 25°C, cold start	11			— A	
No Load Power Consumption	230VAC, no load			0.5	W	
Power Factor Correction	240VAC, full load	0.95		1		
OUTPUT SPECIFICATIONS						
Output Voltage			See	Table		
Line Regulation ⁽³⁾	Full Load, Vin=100~120VAC			1	%	
Load Regulation ⁽⁴⁾	230VAC, 10~90% Load Change at Condition	1		3	%	
Output Power	• • • • • •			100	W	
Output Current			See	Table		
Ripple & Noise ⁽⁵⁾			See	Table		
Hold-Up Time ⁽⁶⁾	100VAC, Full Load	16			ms	
Start-Up Time	100~240VAC, Full Load			1	S	
Transient Response Time	110VAC, Full Load			4	ms	
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C	
PROTECTION		·		1		
Over Voltage Protection	Crowbar Mode	112		132	%	
Over Load Protection	Recovers Automatically after fault condition is removed	110		150	%	
Short Circuit Protection	• •		Automatio	Recovery		
GENERAL SPECIFICATIONS						
Efficiency	230VAC, full load		See	Table		
Diala stria Mitherian din m Matter	Primary to Secondary			4242	VDC	
Dielectric Withstanding Voltage	Primary to PE			2121	VDC	
0	Line-Neutral			1		
Surge Voltage	Line-PE			2	kV	
Safety Leakage Current	240VAC/60Hz			0.75	mA	



	ecifications based on technological adv CONDITIONS nd at 25°C to 50% load at 70°C n. each along X, Y, Z axes	Vances. Min 0 -40 0 0 0 100,000 4 (1 Mates with	Typ Free air c 6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	Max +70 +85 95 2000 5 onvection (180~250g) < 1.09 inche 0 x 44.6 mm	es n)
ENVIRONMENTAL SPECIFICATIONS Operating Temperature Derating linearly from 100% Lo Storage Temperature 10~95% Operating Humidity Non-Condensing Storage Humidity All Conditions Operating Altitude All Conditions Vibration 10~500Hz, 10min./1cycle, 60m Cooling Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector Output Connector	nd at 25°C to 50% load at 70°C n. each along X, Y, Z axes	0 -40 0 0 100,000	Free air c 6.3~8.8oz (.00 x 2.00 > 138.0 x 87.0	+70 +85 95 2000 5 onvection (180~250g) < 1.09 inche 0 x 44.6 mm	°C °C % m G hours
Operating Temperature Derating linearly from 100% Lo Storage Temperature 10~95% Operating Humidity Non-Condensing Storage Humidity All Conditions Operating Altitude All Conditions Vibration 10~500Hz, 10min./1cycle, 60m Cooling Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector Output Connector	n. each along X, Y, Z axes	40 0 0 100,000	6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	+85 95 95 2000 5 onvection (180~250g) < 1.09 inche 0 x 44.6 mm	°C % % m G hours
Storage Temperature 10~95% Operating Humidity Non-Condensing Storage Humidity All Conditions Operating Altitude All Conditions Vibration 10~500Hz, 10min./1cycle, 60m Cooling Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector Output Connector	n. each along X, Y, Z axes	40 0 0 100,000	6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	+85 95 95 2000 5 onvection (180~250g) < 1.09 inche 0 x 44.6 mm	°C % % m G hours
Operating Humidity Non-Condensing Storage Humidity All Conditions Operating Altitude All Conditions Vibration 10~500Hz, 10min./1cycle, 60m Cooling Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector Output Connector		0 0 100,000	6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	95 95 2000 5 onvection (180~250g) < 1.09 inche 0 x 44.6 mm	% % m G hours
Storage Humidity Operating Altitude All Conditions Vibration 10~500Hz, 10min./1cycle, 60m Cooling MTBF Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector		0 100,000 4 (1 Mates with	6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	95 2000 5 onvection (180~250g) < 1.09 inche 0 x 44.6 mm	% m G hours es n)
Operating Altitude All Conditions Vibration 10~500Hz, 10min./1cycle, 60m Cooling 0 MTBF Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector		100,000 4 (1 Mates with	6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	2000 5 onvection (180~250g) < 1.09 inche 0 x 44.6 mm	m G hours es n)
Vibration 10~500Hz, 10min./1cycle, 60m Cooling 0 MTBF Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector		4 (1 Mates with	6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	5 onvection (180~250g) < 1.09 inche 0 x 44.6 mm	G hours es n)
Cooling Operating Temperature at 25°C MTBF Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector		4 (1 Mates with	6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	(180~250g) (1.09 inche 0 x 44.6 mm	hours es n)
MTBF Operating Temperature at 25°C PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector	MIL-HDBK-217F, 25°C	4 (1 Mates with	6.3~8.8oz (.00 x 2.00 > 38.0 x 87.0	(180~250g) < 1.09 inche) x 44.6 mm	es n)
PHYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) Input Connector Output Connector	MIL-HDBK-217F, 25°C	4 (1 Mates with	.00 x 2.00 x 38.0 x 87.0	x 1.09 inche 0 x 44.6 mm	es n)
Weight Dimensions (L x W x H) Input Connector Output Connector		4 (1 Mates with	.00 x 2.00 x 38.0 x 87.0	x 1.09 inche 0 x 44.6 mm	es n)
Dimensions (L x W x H) Input Connector Output Connector		4 (1 Mates with	.00 x 2.00 x 38.0 x 87.0	x 1.09 inche 0 x 44.6 mm	es n)
Input Connector Output Connector		(1 Mates with	38.0 x 87.0) x 44.6 mm	n)
Input Connector Output Connector		Mates with			
Output Connector				ing VILID 2N	
Output Connector			Mates with JST housing VHR-3N and JST		
•		SVH series crimp terminal Mates with JST housing VHR-6N and JST			
•					
SAFETY & EMC		SVH series crimp terminal			
	UL 60950-1:2 nd Edition ⁽⁷⁾				
Safety Approvals	CSA C22.2 No.60950-1-07				
culoty , upplotulo	IEC60950-1:2005/A2:2013				
	EN60950-1:2006/A2:2013	-			
EMC Emission	Compliance to EN55022 (CISPR22)	/			
Production Classes			Cla		
Flammability Rating			UL9		
Electrostatic Discharge IEC61000-4-2	Air Discharge Contact Discharge			8	kV

NOTES

1. Output can provide up to peak load when power supply starts up. Staying in more than rated load continually is prohibited.

At factory, in 60% rated load, 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.

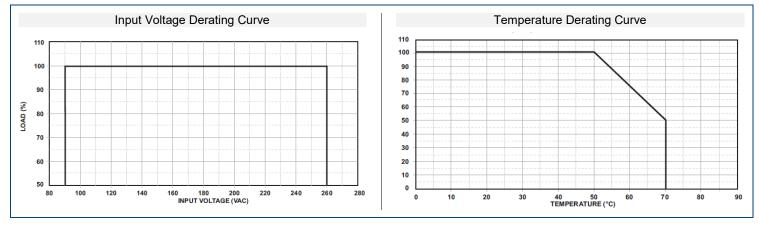
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.

7. This product is Listed to applicable standards and requirements by UL.

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

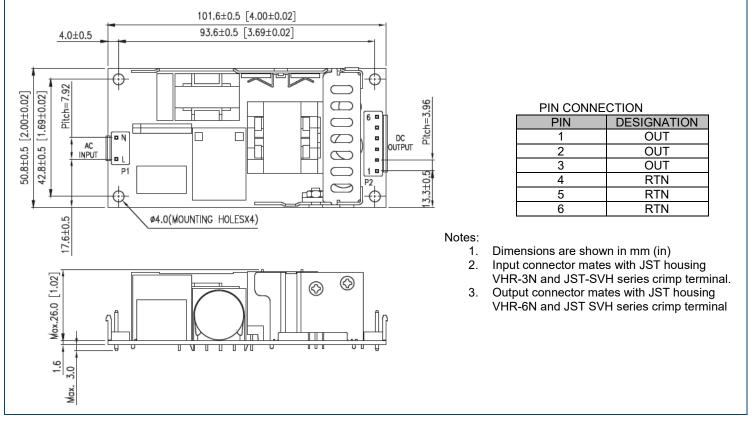
DERATING CURVES

2.





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: 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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