Size: 4.00 x 2.00 x 1.09 inches

Weight: 6.3~8.8oz (180~250g)

FEATURES

- Class I
- RoHS Compliant
- Internal EMI Filter
- 100 Watts Output Power
- Active Power Factor Correction
- 100% Burn-in Tested
- Single Output Voltages Available from 11VDC to 55VDC
- Over Voltage Protection (Crowbar Design)
- Input Surge Current, Over Voltage, and Over Load Protection
- Wide Input Voltage Range: 90~264VAC, 47~63Hz
- Meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits
- UL/cUL(UL 60950-1:2nd Edition) Safety Approvals

DESCRIPTION

The PSSBU99 series of Class I AC/DC switching mode power supplies provides 100 Watts of continuous output power in a 4.00" x 2.00" x 1.09" open frame package. This series consists of single output models ranging from 11VDC to 55VDC with a wide input voltage range of 90~264VAC. These power supplies have active PFC, an internal EMI filter, and over load, over voltage, and input surge current protection. This series also has UL/cUL (UL 60950-1: 2nd edition) safety approvals 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.

TECHNICAL SPECIFICATIONS: PSSBU99 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		264	
Input Frequency		47		63	Hz
Input Current	100VAC, full load			1.4	A
	240VAC, full load			0.7	
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			0.5	W
Power Factor Correction	240VAC, full load	0.95		1	
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	LL to HL, full load			1	%
Load Regulation	230VAC	See Table			
Output Power				100	W
Output Current		See Table			
Ripple & Noise (peak to peak)	90VAC, full load			1	%
Hold-up Time	110VAC, full load	16			ms
Start-up Time	100VAC, full load			1	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	87		91	%
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
	Primary to PE	2121			
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Leakage Current	240VAC/60Hz			0.75	mA
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derating linearly from 100% Load at 25°C to 50% load at 70°C	0		+70	°C
Storage Temperature		-40		+85	°C
Operating Humidity		0		95	%
Storage Humidity		0		95	%
Cooling		Free air convection			
MTBF	MIL-HDBK-217F, 25°C	100,000			hours
PHYSICAL SPECIFICATIONS					
Weight		6.3~8.8oz (180~250g)			
Dimensions (L x W x H)		4.00 x 2.00 x 1.09 inches (138.0 x 87.0 x 44.6 mm)			
Input Connector		Mates with JST housing VHR-3N and JST SVH series crimp terminal			
Output Connector		Mates with JST housing VHR-6N and JST SVH series crimp terminal			
SAFETY & EMC					
Safety Approvals		UL/cUL (UL 60950-1: 2nd edition)			
EMI Requirements for CISPR-22	220VAC	B			Class
EMI Requirements for FCC PART-15	110VAC	B			Class

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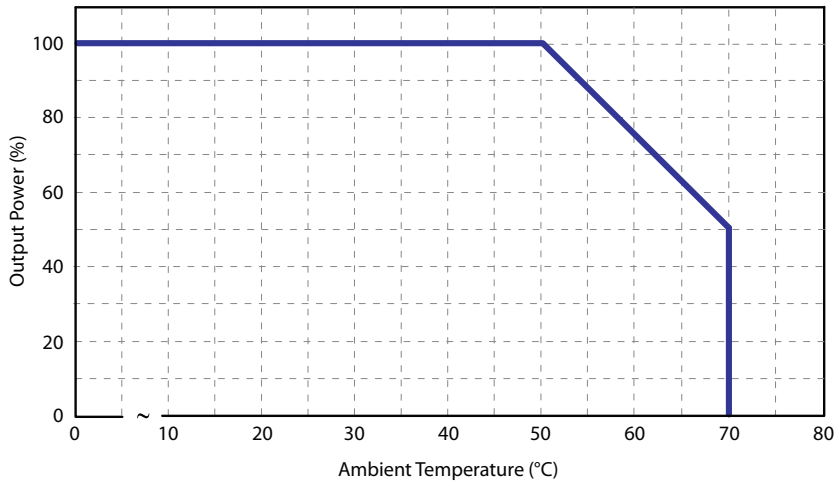
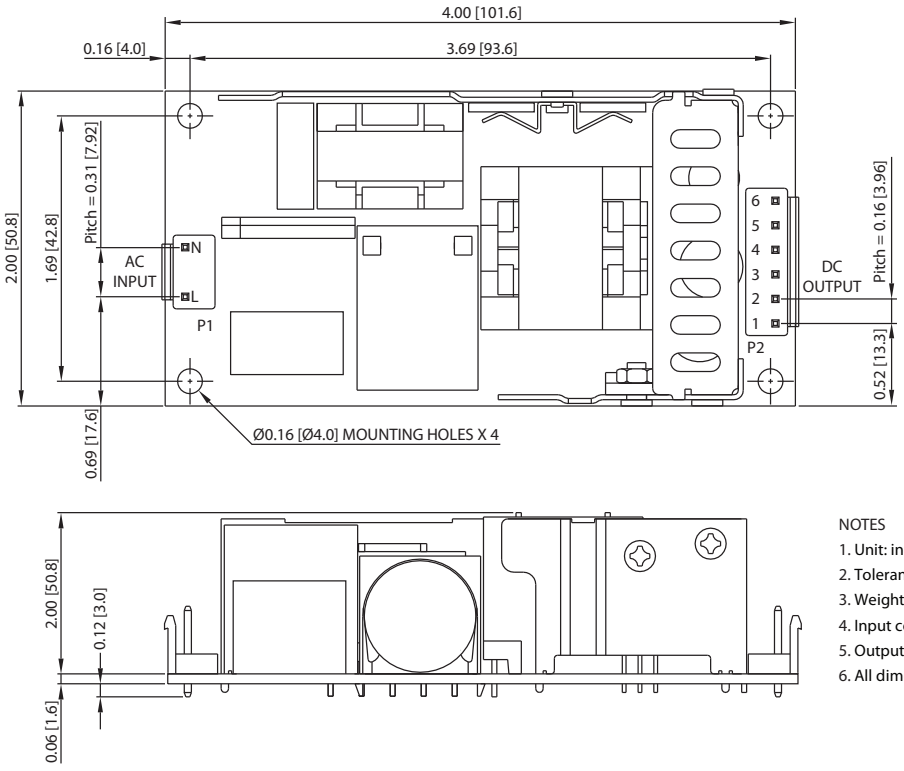
MODEL SELECTION TABLE						
Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation	Ripple & Noise	Output Power
PSSBU99-105	90 ~ 264 VAC	11 ~ 13 VDC	8.33 ~ 7.69 A	3%	1%	100W
PSSBU99-106		13 ~ 16 VDC	7.69 ~ 6.25 A	3%	1%	100W
PSSBU99-107		16 ~ 21 VDC	6.25 ~ 4.76 A	3%	1%	100W
PSSBU99-108		21 ~ 27 VDC	4.76 ~ 3.70 A	2%	1%	100W
PSSBU99-109		27 ~ 33 VDC	3.70 ~ 3.03 A	2%	1%	100W
PSSBU99-110		33 ~ 40 VDC	3.03 ~ 2.50 A	2%	1%	100W
PSSBU99-111		40 ~ 50 VDC	2.50 ~ 2.00 A	2%	1%	100W
PSSBU99-112		50 ~ 55 VDC	2.00 ~ 1.81 A	2%	1%	100W

DERATING CURVE



MECHANICAL DRAWING



PIN CONNECTIONS	
Pin	Designation
1	OUT
2	OUT
3	OUT
4	RTN
5	RTN
6	RTN

NOTES
1. Unit: inches [mm]
2. Tolerance: ±0.02 [±0.5]
3. Weight: 6.3~8.8oz (180~250g)
4. Input connector mates with JST housing VHR-3N and JST SVH series crimp terminal.
5. Output connector mates with JST housing VHR-6N and JST SVH series crimp terminal.
6. 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.

Contact **Wall Industries** for further information:

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