



Weight:

4.00 x 2.00 x 1.09 inches 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**

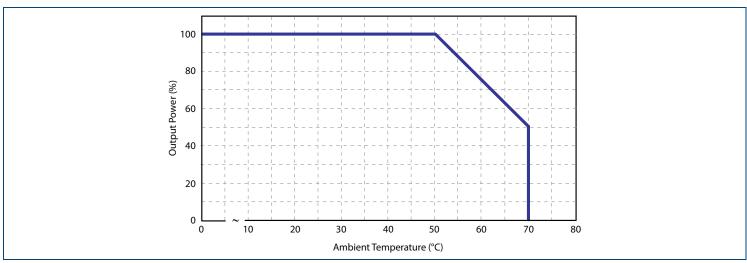
 $All\ specifications\ are\ based\ on\ 25^{\circ}C,\ Nominal\ Input\ Voltage,\ and\ Maximum\ Output\ Current\ unless\ otherwise\ noted.$ 

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			1.4	Α					
	240VAC, full load			0.7	A					
Inrush Current	115VAC, full load, 25°C, cold start			50	Α					
	230VAC, full load, 25°C, cold start			100	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 7	able						
Line Regulation	LL to HL, full load			1	%					
Load Regulation	230VAC		See 7	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	%					
Diologtric Withstanding Voltage	Primary to Secondary	4242			VDC					
Dielectric Withstanding Voltage	Primary to PE	2121			VDC					
Isolation Resistance	Test Voltage = 500VDC	50			ΜΩ					
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 co	onvection						
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 ho									
Output Connector	Mates with JST ho	ousing VHR-61	N and JST SV	H series crin	np terminal					
SAFETY & EMC										
Safety Approvals		UL/	cUL (UL 6095	50-1: 2 <sup>nd</sup> edit	ion)					
EMI Requirements for CISPR-22	220VAC	В			Class					
EMI Requirements for FCC PART-15	110VAC	В			Class					

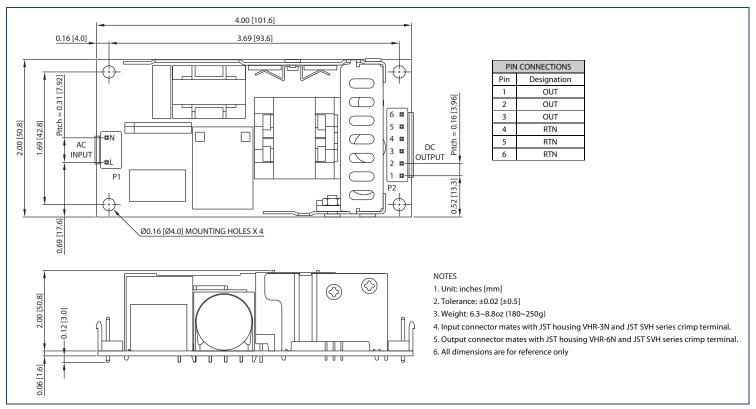


MODEL SELECTION TABLE									
Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation	Ripple & Noise	Output Power			
PSSBU99-105	90 ~ 264 VAC	11 ~ 13 VDC	8.33 ~ 7.69 A	3%	1%	100W			
PSSBU99-106		13 ~ 16 VDC	7.69 ~ 6.25 A	3%	1%	100W			
PSSBU99-107		16 ~ 21 VDC	6.25 ~ 4.76 A	3%	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





#### **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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