



Size: 5.00 x 3.21 x 1.44 inches 127.0 x 81.6 x 36.6 mm Weight: 1.05 lbs (475g)

FEATURES

- Class I
- RoHS Compliant
- Internal EMI Filter
- Up to 100 Watts Output Power
- Active Power Factor Correction
- Over Voltage Protection (Crowbar Design)
- Over Current Protection
- Wide Input Voltage Range: 90~260VAC

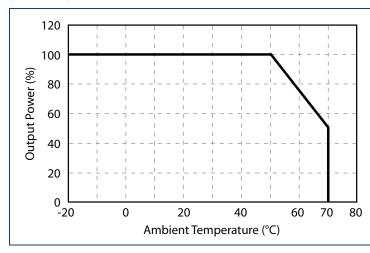
- -20°C to +70°C Operating Temperature Range
- Single Outputs Ranging from 3VDC to 50VDC
- 2-Pin Input Connector
- 3-Pin Input Connector Available (See PSIUU100 Series)
- UL/cUL(UL 60950-1: 2nd Ed.) & TUV/GS (EN 60950-1: 2nd Ed.)
 Safety Approvals
- Meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits
- 100% Burn-in Tested

DESCRIPTION

The PSIUU101 series of Class I AC/DC switching mode power supplies provides up to 100 Watts of continuous output power in a 5.00" x 3.21" x 1.44" U-chassis package. This series has single output models ranging from 3VDC to 50VDC with a wide input voltage range of 90~260VAC. These power supplies have an internal EMI filter, active power factor correction, and over voltage and over current protection. This series also has UL/cUL (UL 60950-1: 2nd edition) and TUV/GS (EN 60950-1: 2nd edition) safety approvals and meets FCC Part-15 Class B and CISPR-22 Class B Emission limits. These units are well suited for use in industrial equipment as well as many other applications. All models are 100% burn-in tested.

MODEL SELECTION TABLE									
Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation	Output Power	No-Load Power Consumption			
PSIUU101-101	90 ~ 260 VAC	3 ~ 5 VDC	18.00 ~ 10.80 A	5%	54W	6W			
PSIUU101-102		5 ~ 6 VDC	14.00 ~ 11.66 A	5%	70W	6W			
PSIUU101-103		6 ~ 9 VDC	13.33 ~ 8.88 A	5%	80W	6W			
PSIUU101-104		9 ~ 11 VDC	11.11 ~ 9.09 A	5%	100W	6W			
PSIUU101-105		11 ~ 13 VDC	9.09 ~ 7.69 A	3%	100W	6W			
PSIUU101-106		13 ~ 16 VDC	7.69 ~ 6.25 A	3%	100W	6W			
PSIUU101-107		16 ~ 21 VDC	6.25 ~ 4.76 A	3%	100W	6W			
PSIUU101-108		21 ~ 27 VDC	4.76 ~ 3.70 A	2%	100W	6W			
PSIUU101-109		27 ~ 33 VDC	3.70 ~ 3.03 A	2% 100W		6W			
PSIUU101-110		33 ~ 40 VDC	3.03 ~ 2.50 A	2% 100W		6W			
PSIUU101-111		40 ~ 50 VDC	2.50 ~ 2.00 A	2% 100W		6W			

DERATING



Notes

- 1. Operating Temperature: -20°C to + 70°C
- 2. Derating linearly from 100% load at 50°C to 50% load at 70°C



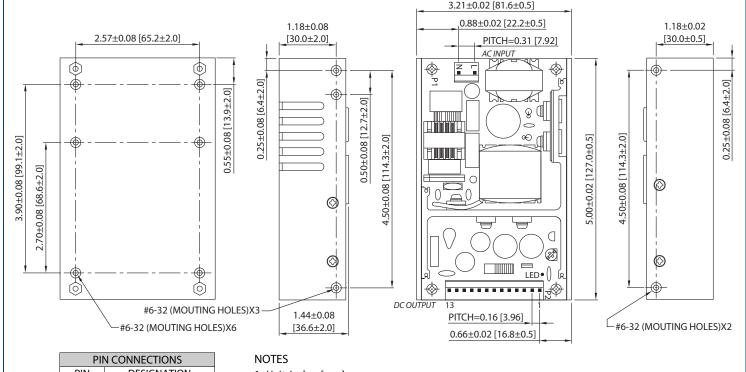
TECHNICAL SPECIFICATIONS: PSIUU101 SERIES

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	Тур	Max	Unit
INPUT SPECIFICATIONS						
	Operating Input Voltage Range				260	
Input Voltage	Safety Approvals Input Voltage Range	100		240	VAC	
Input Frequency			47		63	Hz
	Vin = 100VAC, lo = full load Vin = 240VAC, lo = full load				2.0	Α
Input Current					2.0	
	Vin = 115VAC, lo = full load, 25°C, cold start				50	
Inrush Current	Vin = 230VAC, lo = full load, 25°C, cold start				100	Α
No Load Power Consumption	Vin = 230VAC, lo = no load				6	W
Power Factor Correction	Vin = 240VAC, lo = full load		0.95		1	
OUTPUT SPECIFICATIONS						
Output Voltage				See T	able	
Line Regulation	LL to HL, full load		0.5		1	%
Load Regulation	Vin = 230VAC or 325VDC		2		5	%
Output Power				See T	able	
Output Current			See Table			
	Ou	tputs under 3.3VDC			2	
Ripple & Noise (peak to peak)	Vin = 90VAC, $Io = full load$	ners			1	%
Hold-up Time	Vin = 110VAC, lo = full load	1013	16		•	ms
Start-up Time	Vin = 100VAC, lo = full load		10		3	S
Transient Response Time	Vin = 100VAC, lo = Full load to half load				4	ms
Temperature Coefficient	0~50°C	-0.04		+0.04	%/°C	
PROTECTION	0-30 €		-0.04		+0.04	70/ C
Over Voltage Protection			112		132	%
Over Current Protection			110		150	
GENERAL SPECIFICATIONS			110		130	70
	Vin = 230VAC, lo = full load		70		85	%
Efficiency	Primary to Secondary		4242		65	70
Dielectric Withstanding Voltage	·	2594			VDC	
Isolation Desistance	Primary to PE					MO
Isolation Resistance	Test Voltage = 500VDC Vin = 240VAC/60Hz		50		0.75	ΜΩ
Leakage Current	VIII = 240VAC/60H2				0.75	mA
ENVIRONMENTAL SPECIFICATIONS	Davidina linearly from 1000/ Land of 50% to 500/	11-+ 70°C	-20		. 70	°C
Operating Temperature					+70	°C
Storage Temperature					+85	
Operating Humidity			0		95	%
Storage Humidity			0	Funn niu en	95	%
Cooling	ANII LIDDU 217E 25°C		100 000	Free air co	nivection	l
MTBF	MIL-HDBK-217F, 25°C		100,000			hours
PHYSICAL SPECIFICATIONS				1 OF lbs	(475~)	
Weight			F 00 2 21	1.05 lbs		26 6
Dimensions (L x W x H)		Matas with Malay Is		x 1.44 inch (1		
Input Connector	Mates with Molex housing 09-52-4034 and Molex 2478 crimp ten Mates with Molex housing 09-52-4134 and Molex 2478 crimp ten				-	
Output Connector		iviates with Molex nou	sing 09-52-4	134 and Mol	ex 24/8 crin	ıp terminal
SAFETY		LII /-III /III 60050 4	2 - d - d'''). TIN//CC /E	N COOFO 1 3	
Safety Approvals	220/46	UL/cUL (UL 60950-1		ı); 1UV/GS (El	N 60950-1: 2	
EMI Requirements for CISPR-22	220VAC		В			Class
EMI Requirements for FCC PART-15	110VAC	В			Class	



MECHANICAL DRAWING -



PIN CONNECTIONS				
PIN	DESIGNATION			
1	OUT			
2	OUT			
3	OUT			
4	OUT			
5	OUT			
6	OUT			
7	RTN			
8	RTN			
9	RTN			
10	RTN			
11	RTN			
12	RTN			
13	N/C			

- 1. Unit: Inches [mm]
- 2. Weight: 1.05 lbs (475g)
- 3. Input connector mates with Molex housing 09-52-4034 and Molex 2478 series crimp terminal
- 4. Output connector mates with Molex housing 09-52-4134 and Molex 2478 series crimp terminal
- 5. 3-pin input connector also available (See PSIUU100 Series)
- 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.

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