



Size: 6.00 x 4.18 x 1.54 inches  
152.4 x 106.1 x 39.2 mm

Weight: 1.74 lbs (790g)

**FEATURES**

- Class I
- RoHS Compliant
- Internal EMI Filter
- Up to 300 Watts Output Power
- Active Power Factor Correction
- Zero Voltage Switching (ZVS)
- 90~260VAC Input Voltage Range
- High Efficiency up to 94%
- Over Voltage Protection (Crowbar Design)
- Input Surge Current & Over Load Protection
- 0°C to +70°C Operating Temperature Range
- Single Outputs Ranging from 12VDC to 48VDC
- UL/cUL(UL 60950-1: 2nd Ed.) & TUV/GS (EN 60950-1: 2nd Ed.) Safety Approvals
- Meets FCC Part-15 Class B & CISPR-22 Class B Emission Limits
- 100% Burn-in Tested

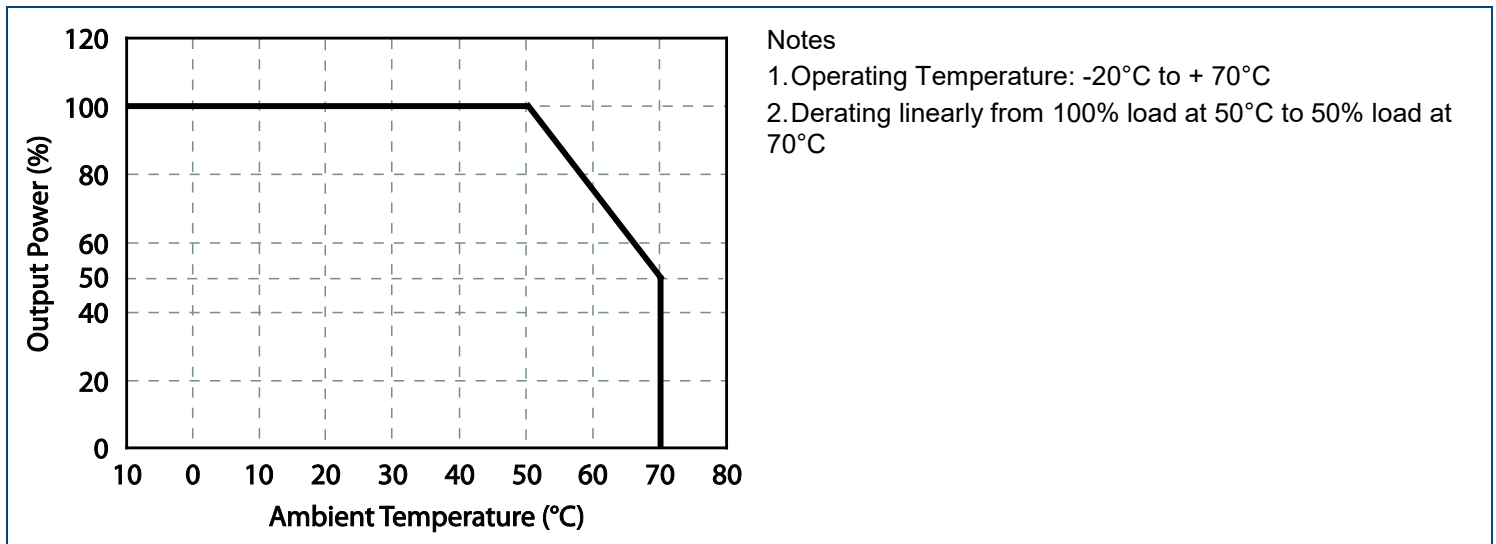
**DESCRIPTION**

The PSSUU300 series of Class I AC/DC switching mode power supplies provides up to 300 Watts of continuous output power in a 6.00" x 4.18" x 1.54" U-chassis package. This series has single output models ranging from 12VDC to 48VDC with a wide input voltage range of 90~260VAC. These power supplies have an internal EMI filter, active power factor correction, and a high efficiency up to 94%. The PSSUU300 series also has over voltage, over load, and input surge current protection. This series 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. All models are 100% burn-in tested.

**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation	Ripple & Noise	Output Power
PSSUU300-105	90 ~ 260 VAC	12 VDC	23.0A	5%	1%	276W
PSSUU300-108		24 VDC	12.5A	3%	1%	300W
PSSUU300-109		28~30 VDC	10.71~10.00A	3%	1%	300W
PSSUU300-110		36 VDC	8.33A	3%	1%	300W
PSSUU300-111		48 VDC	6.25A	2%	1%	300W

**DERATING CURVE**



**TECHNICAL SPECIFICATIONS: PSSUU300 SERIES**

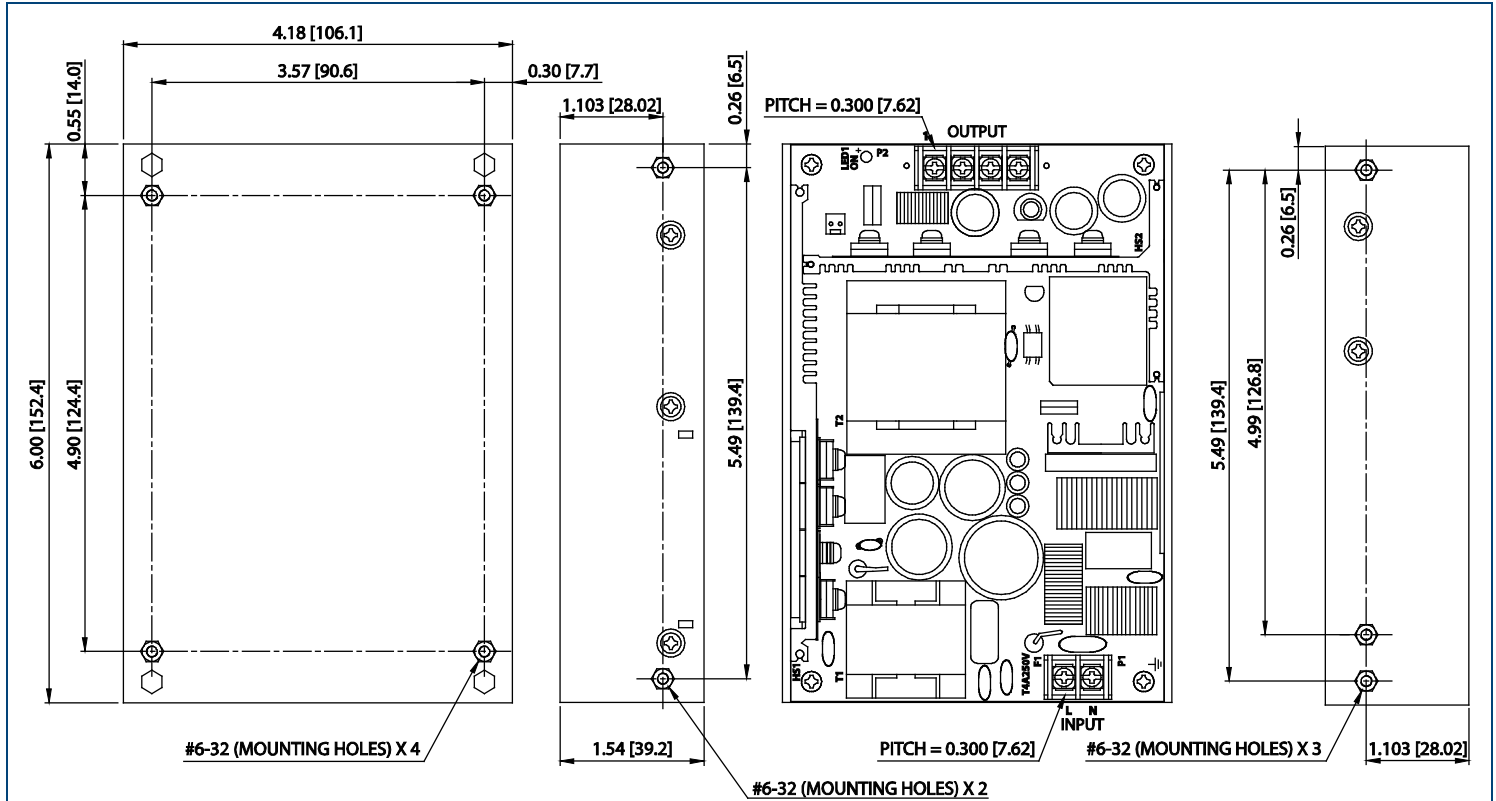
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>					
Input Voltage	Operating Input Voltage Range	90		260	VAC
	Safety Approvals Input Voltage Range	100		240	
Input Frequency		47		63	Hz
Input Current	Vin = 100VAC, Io = full load		3.9		A
	Vin = 240VAC, Io = full load		3.9		
Inrush Current	Vin = 115VAC, Io = full load, 25°C, cold start			45	A
	Vin = 230VAC, Io = full load, 25°C, cold start			90	
No Load Power Consumption	Vin = 230VAC, Io = no load			1.5	W
Power Factor Correction	Vin = 240VAC, Io = full load	0.95		1	
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage		See Table			
Line Regulation	LL to HL, full load	0.5		1	%
Load Regulation	Vin = 230VAC	2		5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (peak to peak)	Vin = 90VAC, Io = full load			1	%
Hold-up Time	Vin = 110VAC, Io = full load	20			ms
Start-up Time	Vin = 100VAC, Io = full load			3	s
Transient Response Time	Vin = 100VAC, Io = Full load to half load			4	ms
Temperature Coefficient	0~50°C	-0.04		+0.04	%/°C
<b>PROTECTION</b>					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
<b>GENERAL SPECIFICATIONS</b>					
Efficiency	Vin = 230VAC, Io = full load	88		94	%
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
	Primary to PE	2550			
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Leakage Current	Vin = 240VAC/60Hz			0.75	mA
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature	Derating linearly from 100% Load at 50°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
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		1.74 lbs (790g)			
Dimensions (L x W x H)		6.00 x 4.18 x 1.54 in (152.4 x 106.1 x 39.2 mm)			
Input Connector	Mates with DINKLE#DT-2GN-B01W-02P and DINKLE#ESK750V-02P				
Output Connector	Mates with DINKLE#DT-2GN-B01W-(04P or 06P) and DINKLE#ESK750V-(04P or 06P)				
<b>SAFETY</b>					
Safety Approvals	UL/cUL (UL 60950-1: 2nd edition) <sup>(1)</sup> ; TUV/GS (EN 60950-1: 2nd edition)				
EMI Requirements for CISPR-22	220VAC	B			Class
EMI Requirements for FCC PART-15	110VAC	B			Class

**NOTES**

- This product is Listed to applicable standards and requirements by UL.  
*\*Due to advances in technology, specifications subject to change without notice.*

**MECHANICAL DRAWING**



PIN CONNECTIONS	
Pin	Assignment
1	RTN
2	RTN
3	OUT
4	OUT

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

**NOTES**

- Unit: inches [mm]
- Tolerance:  $\pm 0.02$  [ $\pm 0.5$ ]
- Weight: 1.74 lbs (790g)
- Input connector mates with DINKLE#DT-2GN-B01W-02P & DINKLE#ESK750V-02P
- Output connector mates with DINKLE#DT-2GN-B01W-(04P or 06P) & DINKLE#ESK750V-(04P or 06P)
- All dimensions are for reference only

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## COMPANY INFORMATION

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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.

Contact **Wall Industries** for further information:

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