



**Size:**  
5.43 x 3.43 x 1.76 inches  
138.0 x 87.0 x 44.6 mm

**Weight:**  
1.1 lbs (500g)

**FEATURES**

- Class I
- Single to Quad Outputs
- RoHS Compliant
- Internal EMI Filter
- Up to 63 Watts Output Power
- 100% Burn-in Tested
- Wide Input Voltage Range: 90~264VAC, 47~63Hz
- Output Voltage Available from 3VDC to 50VDC
- Over Voltage Protection (Crowbar Design)
- Input Surge Current, Over Voltage, and Over Load Protection
- 3-Pin Input Connector
- 2-Pin Input Connector Available (See PSSEU61 Series)
- Meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits
- UL/cUL(UL 60950-1:2nd Edition) Safety Approvals

**DESCRIPTION**

The PSSEU60 series of Class I AC/DC switching mode power supplies provides up to 63 Watts of continuous output power in a 5.43" x 3.43" x 1.76" enclosed package. This series has single, dual, triple, and quad output models with a wide input voltage range of 90~264VAC. These power supplies have an internal EMI filter and are protected against over load, over voltage, and input surge current conditions. This series also has UL/cUL (UL 60950-1: 2<sup>nd</sup> 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.

**TECHNICAL SPECIFICATIONS: PSSEU60 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	Safety Approvals Input Voltage Range	100		240	VAC
	Operating Input Voltage Range	90		264	
Input Frequency		47		63	Hz
Input Current	100VAC, full load		1.6		A
	240VAC, full load		1.0		
Inrush Current	115VAC, full load, 25°C, cold start			33	A
	230VAC, full load, 25°C, cold start			65	
No Load Power Consumption	230VAC, no load	Single Output Models		5	W
		Dual, Triple, & Quad Output Models		5.5	
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage		See Table			
Line Regulation	LL to HL, full load	0.5		1	%
Load Regulation	230VAC	3		7	%
Output Power				63	W
Output Current		See Table			
Ripple & Noise (peak to peak)	90VAC, full load	Outputs under 3.3VDC		2	%
		Others		1	
Hold-up Time	110VAC, full load	12			ms
Start-up Time	100VAC, full load			2	s
Transient Response Time	100VAC, 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	230VAC, full load	70		88	%
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
	Primary to PE	2506			
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Leakage Current	240VAC/60Hz			0.75	mA
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
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
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		1.1 lbs (500g)			
Dimensions (L x W x H)		5.43 x 3.43 x 1.76 inches (138.0 x 87.0 x 44.6 mm)			
Input Connector		See mechanical drawing			
Output Connector		See mechanical drawing			
<b>SAFETY &amp; EMC</b>					
Safety Approvals		UL/cUL (UL 60950-1: 2 <sup>nd</sup> edition)			
EMI Requirements for CISPR-22	220VAC	B			Class
EMI Requirements for FCC PART-15	110VAC	B			Class

**MODEL SELECTION TABLE**

**SINGLE OUTPUT MODELS**

Model Number	Input Voltage Range	Output Voltage	Output Current	Total Regulation	Output Power
PSSEU60-101	90 ~ 264 VAC	3 ~ 5 VDC	16.66 ~ 10.00 A	5%	50W
PSSEU60-102		5 ~ 6 VDC	11.00 ~ 9.16 A	5%	55W
PSSEU60-103		6 ~ 8 VDC	10.00 ~ 7.50 A	4%	60W
PSSEU60-104		8 ~ 11 VDC	7.87 ~ 5.72 A	3%	63W
PSSEU60-105		11 ~ 13 VDC	5.72 ~ 4.84 A	3%	63W
PSSEU60-106		13 ~ 16 VDC	4.84 ~ 3.93 A	3%	63W
PSSEU60-107		16 ~ 21 VDC	3.93 ~ 3.00 A	3%	63W
PSSEU60-108		21 ~ 27 VDC	3.00 ~ 2.33 A	2%	63W
PSSEU60-109		27 ~ 33 VDC	2.33 ~ 1.90 A	2%	63W
PSSEU60-110		33 ~ 40 VDC	1.90 ~ 1.57 A	2%	63W
PSSEU60-111		40 ~ 50 VDC	1.57 ~ 1.26 A	2%	63W

**DUAL OUTPUT MODELS**

Model Number	Output #1				Output #2				Output Power
	Vo (nom)	Io (min)	Io (max)	Reg (max)	Vo (nom)	Io (min)	Io (max)	Reg (max)	
PSSEU60-200	+3.3 VDC	1.4A	7A	7%	+12 VDC	0.6A	3A	5%	59.1W
PSSEU60-201	+5 VDC	0.7A	7A	5%	+12 VDC	0.3A	3A	5%	63W
PSSEU60-202	+5 VDC	0.7A	7A	5%	+15 VDC	0.3A	3A	5%	63W
PSSEU60-203	+5 VDC	0.7A	7A	5%	+24 VDC	0.4A	2A	5%	63W
PSSEU60-204	+3.3 VDC	1.4A	7A	7%	+5 VDC	0.5A	5A	5%	48.1W
PSSEU60-215	+5 VDC	0.7A	7A	5%	-24 VDC	0.2A	2A	5%	63W
PSSEU60-218	+3.3 VDC	0.5A	5A	7%	+48 VDC	0.1A	1.25A	5%	63W
PSSEU60-219	+5 VDC	0.1A	5A	5%	+28 VDC	0.2A	2A	5%	63W
PSSEU60-220	+5 VDC	0.5A	5A	5%	+35 VDC	0.1A	1.5A	5%	63W
PSSEU60-221	+5 VDC	0.5A	5A	5%	+36 VDC	0.1A	1.5A	5%	63W

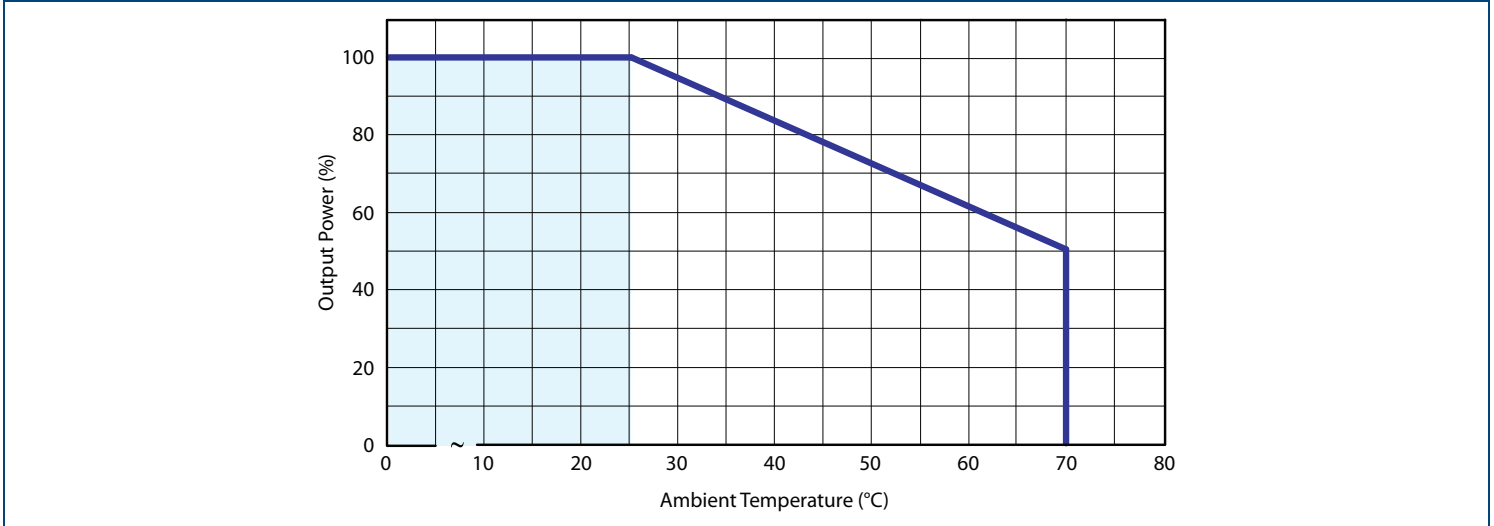
**TRIPLE OUTPUT MODELS**

Model Number	Output #1				Output #2				Output #3				Output Power
	Vo(nom)	Io(min)	Io(max)	Reg(max)	Vo(nom)	Io(min)	Io(max)	Reg(max)	Vo(nom)	Io(min)	Io(max)	Reg(max)	
PSSEU60-300	+3.3 VDC	1.2A	6A	7%	+12 VDC	0.6A	3A	5%	-12 VDC	0A	0.8A	5%	63W
PSSEU60-300-1	+3.3 VDC	1.2A	6A	7%	+12 VDC	0.6A	3A	5%	+12 VDC	0A	0.8A	5%	63W
PSSEU60-301	+5 VDC	0.6A	6A	5%	+12 VDC	0.3A	3A	5%	-5 VDC	0A	0.8A	5%	63W
PSSEU60-301-1	+5 VDC	0.6A	6A	5%	+12 VDC	0.3A	3A	5%	+5 VDC	0A	0.8A	5%	63W
PSSEU60-302	+5 VDC	0.6A	6A	5%	+12 VDC	0.6A	3A	5%	-12 VDC	0A	0.8A	5%	63W
PSSEU60-302-1	+5 VDC	0.6A	6A	5%	+12 VDC	0.6A	3A	5%	+12 VDC	0A	0.8A	5%	63W
PSSEU60-303	+5 VDC	0.6A	6A	5%	+15 VDC	0.3A	3A	5%	-15 VDC	0A	0.8A	5%	63W
PSSEU60-303-1	+5 VDC	0.6A	6A	5%	+15 VDC	0.3A	3A	5%	+15 VDC	0A	0.8A	5%	63W
PSSEU60-304	+5 VDC	1.2A	6A	5%	+24 VDC	0.4A	2A	5%	-24 VDC	0A	0.5A	5%	63W
PSSEU60-304-1	+5 VDC	1.2A	6A	5%	+24 VDC	0.4A	2A	5%	+24 VDC	0A	0.5A	5%	63W
PSSEU60-305	+5 VDC	1.2A	6A	5%	+24 VDC	0.4A	2A	5%	-12 VDC	0A	0.8A	5%	63W
PSSEU60-305-1	+5 VDC	1.2A	6A	5%	+24 VDC	0.4A	2A	5%	+12 VDC	0A	0.8A	5%	63W
PSSEU60-306	+3.3 VDC	1.2A	6A	7%	+12 VDC	0.6A	3A	5%	-5 VDC	0A	0.8A	5%	59.8W
PSSEU60-306-1	+3.3 VDC	1.2A	6A	7%	+12 VDC	0.6A	3A	5%	+5 VDC	0A	0.8A	5%	59.8W
PSSEU60-307	+5 VDC	0.6A	6A	5%	+10 VDC	0.2A	2A	5%	-10 VDC	0A	1A	5%	60W
PSSEU60-307-1	+5 VDC	0.6A	6A	5%	+10 VDC	0.2A	2A	5%	+10 VDC	0A	1A	5%	60W
PSSEU60-308	+3.3 VDC	0.5A	5A	7%	+5 VDC	0.5A	5A	5%	+12 VDC	0A	1A	5%	53.5W
PSSEU60-308-1	+3.3 VDC	0.5A	5A	7%	+5 VDC	0.5A	5A	5%	-12 VDC	0A	1A	5%	53.5W

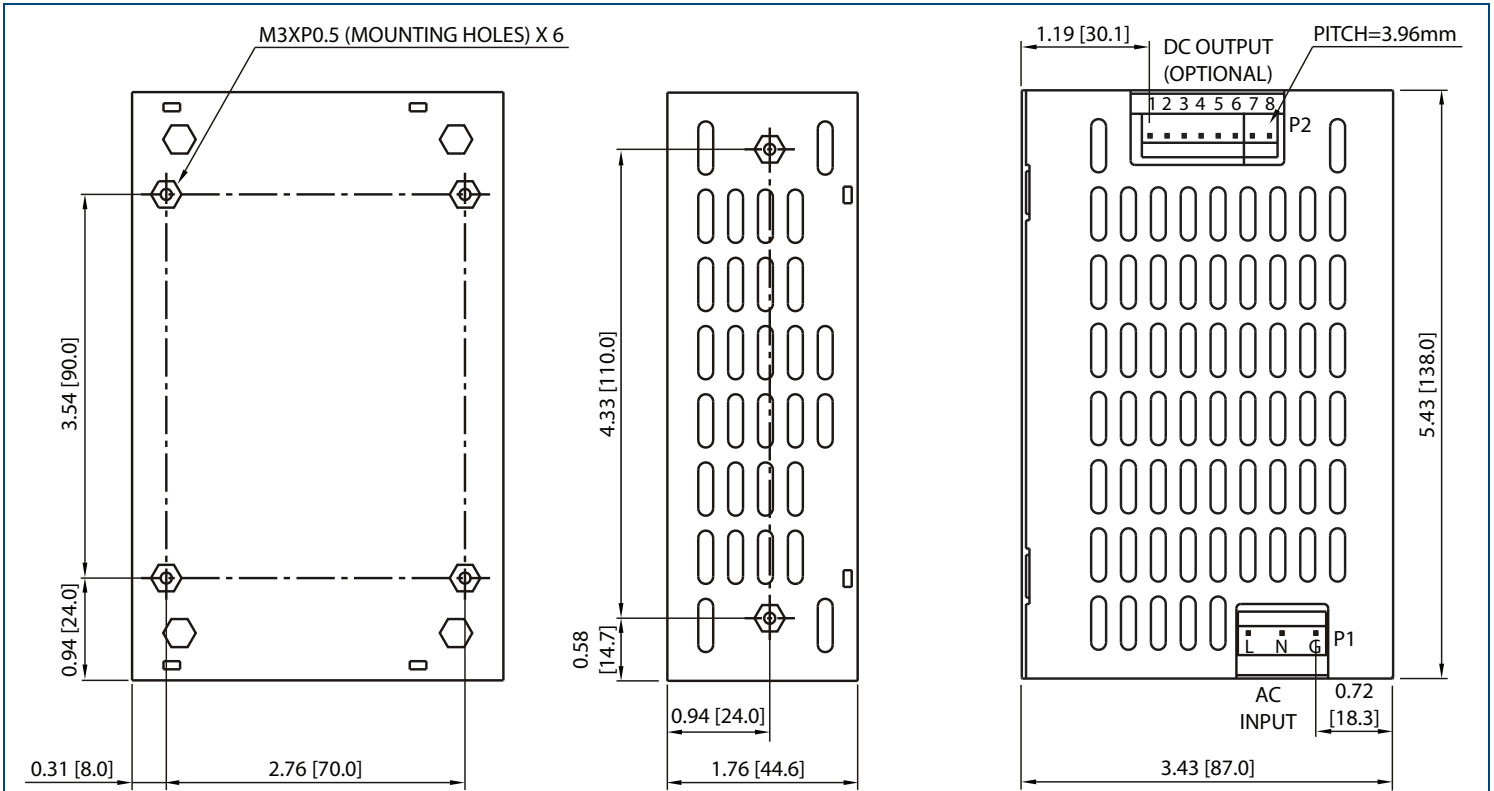
**QUAD OUTPUT MODELS**

Model Number	Output #1				Output #2				Output #3				Output #4				Output Power
	Vo(nom)	Io(min)	Io(max)	Reg(max)	Vo(nom)	Io(min)	Io(max)	Reg(max)	Vo(nom)	Io(min)	Io(max)	Reg(max)	Vo(nom)	Io(min)	Io(max)	Reg(max)	
PSSEU60-400	+3.3VDC	1.2A	6A	7%	+12 VDC	0.6A	3A	5%	-12 VDC	0A	0.8A	5%	-5 VDC	0A	0.8A	5%	63W
PSSEU60-400-1	+3.3VDC	1.2A	6A	7%	+12 VDC	0.6A	3A	5%	-12 VDC	0A	0.8A	5%	+5 VDC	0A	0.8A	5%	63W
PSSEU60-400-2	+3.3VDC	1.2A	6A	7%	+12 VDC	0.6A	3A	5%	+12 VDC	0A	0.8A	5%	-5 VDC	0A	0.8A	5%	63W
PSSEU60-400-3	+3.3VDC	1.2A	6A	7%	+12 VDC	0.6A	3A	5%	+12 VDC	0A	0.8A	5%	+5 VDC	0A	0.8A	5%	63W
PSSEU60-401	+5 VDC	0.6A	6A	5%	+12 VDC	0.3A	3A	5%	-12 VDC	0A	0.8A	5%	-5 VDC	0A	0.8A	5%	63W
PSSEU60-401-1	+5 VDC	0.6A	6A	5%	+12 VDC	0.3A	3A	5%	-12 VDC	0A	0.8A	5%	+5 VDC	0A	0.8A	5%	63W
PSSEU60-401-2	+5 VDC	0.6A	6A	5%	+12 VDC	0.3A	3A	5%	+12 VDC	0A	0.8A	5%	-5 VDC	0A	0.8A	5%	63W
PSSEU60-401-3	+5 VDC	0.6A	6A	5%	+12 VDC	0.3A	3A	5%	+12 VDC	0A	0.8A	5%	+5 VDC	0A	0.8A	5%	63W
PSSEU60-402	+5 VDC	1.2A	6A	5%	+12 VDC	0.6A	3A	5%	-12 VDC	0A	0.8A	5%	+12 VDC	0A	0.8A	5%	63W
PSSEU60-402-1	+5 VDC	1.2A	6A	5%	+12 VDC	0.6A	3A	5%	+12 VDC	0A	0.8A	5%	+12 VDC	0A	0.8A	5%	63W
PSSEU60-402-2	+5 VDC	1.2A	6A	5%	+12 VDC	0.6A	3A	5%	+12 VDC	0A	0.8A	5%	-12 VDC	0A	0.8A	5%	63W
PSSEU60-402-3	+5 VDC	1.2A	6A	5%	+12 VDC	0.6A	3A	5%	-12 VDC	0A	0.8A	5%	-12 VDC	0A	0.8A	5%	63W
PSSEU60-403	+5 VDC	1.2A	6A	5%	+12 VDC	0.6A	3A	5%	-12 VDC	0A	0.8A	5%	+24VDC	0A	0.8A	5%	63W
PSSEU60-403-1	+5 VDC	1.2A	6A	5%	+12 VDC	0.6A	3A	5%	+12 VDC	0A	0.8A	5%	+24VDC	0A	0.8A	5%	63W
PSSEU60-403-2	+5 VDC	1.2A	6A	5%	+12 VDC	0.6A	3A	5%	+12 VDC	0A	0.8A	5%	-24 VDC	0A	0.8A	5%	63W
PSSEU60-403-3	+5 VDC	1.2A	6A	5%	+12 VDC	0.6A	3A	5%	-12 VDC	0A	0.8A	5%	-24VDC	0A	0.8A	5%	63W
PSSEU60-404	+5 VDC	0.6A	6A	5%	+15 VDC	0.3A	3A	5%	-15 VDC	0A	0.8A	5%	-5 VDC	0A	0.8A	5%	63W
PSSEU60-404-1	+5 VDC	0.6A	6A	5%	+15 VDC	0.3A	3A	5%	-15 VDC	0A	0.8A	5%	+5 VDC	0A	0.8A	5%	63W
PSSEU60-404-2	+5 VDC	0.6A	6A	5%	+15 VDC	0.3A	3A	5%	+15 VDC	0A	0.8A	5%	-5 VDC	0A	0.8A	5%	63W
PSSEU60-404-3	+5 VDC	0.6A	6A	5%	+15 VDC	0.3A	3A	5%	+15 VDC	0A	0.8A	5%	+5 VDC	0A	0.8A	5%	63W
PSSEU60-423	+5 VDC	0.1A	1A	5%	+24 VDC	0.18A	1.8A	5%	-15 VDC	0A	0.1A	5%	+12 VDC	0A	0.8A	5%	59.3W

DERATING



MECHANICAL DRAWING



PIN CONNECTIONS								
MODEL \ PIN	1	2	3	4	5	6	7	8
PSSEU60-1XX	OUT	OUT	OUT	RTN	RTN	RTN		
PSSEU60-2XX	Vo <sub>2</sub>	Vo <sub>1</sub>	Vo <sub>1</sub>	COM	COM	N/C		
PSSEU60-215	N/C	Vo <sub>1</sub>	Vo <sub>1</sub>	COM	COM	Vo <sub>3</sub>		
PSSEU60-3XX	Vo <sub>2</sub>	Vo <sub>1</sub>	Vo <sub>1</sub>	COM	COM	Vo <sub>3</sub>		
PSSEU60-4XX	Vo <sub>2</sub>	Vo <sub>1</sub>	Vo <sub>1</sub>	COM	COM	Vo <sub>3</sub>	Vo <sub>4</sub>	Vo <sub>4</sub>

NOTES

- Unit: Inches [mm]
- Tolerance: ±0.02 [±0.5]
- Weight: 1.1 lbs (500g)
- Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
- Output connector mates with Molex housing 09-50-3061 (or 09-50-3081) and Molex 2478 series crimp terminal.
- 2-pin Input connector also available (See PSSEU61 Series)
- 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 ISO9001-2008 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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