

Open Frame (O Type)



Size: 4.1in x 2.05in x 1.0in

U-Chassis (U Type)



Size: 4.13in x 2.28in x 1.5in

And the following Prings Pring

Enclosed (C Type)

Size: 4.13in x 2.28in x 1.5in



Size: 4.13in x 2.28in x 1.5in

OPTIONS

- Mechanical Options
 - -Open Frame
 - -U-Chassis
 - -Enclosed
 - -DIN Rail

FEATURES

- Universal Input Voltage Range: 90~264VAC (120~370VDC)
- High Efficiency
- Open Frame, U-Chassis, Enclosed Case, or DIN Rail Mechanical Options Available
- Over Power, Over Voltage, and Short Circuit Protection
- Single Outputs
- -40°C to +70°C Operating Temperature Range
- Cooling by Free Air Convection
- CE and UL60950 Safety Approvals

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DESCRIPTION

The PSAES60 series of AC/DC switching power supplies offers up to 60W of output power. All models have a single output and a universal input voltage range of 90~264VAC (120~370VDC). Some features include high efficiency, -40°C to +70°C operating temperature range, and protection against short circuit, over power, and over voltage conditions. These supplies also have UL/cUL 60950 and CE safety approvals. Models are available in open frame (Type O), U-Chassis (Type U), enclosed case (Type C), and DIN rail (Type DN) designs.

MODEL SELECTION TABLE								
Open Frame Models								
Model Number	Input Voltage Range	Output Voltage	Min Output Current	Max Output Current	Ripple	Noise	Output Power	Efficiency
PSAES60O-5S		5VDC	1%	10A			50W	82%
PSAES60O-9S		9VDC	1%	6.66A	<0.2% Vout	<0.5% Vout	60W	84%
PSAES60O-12S	90~264VAC	12VDC	1%	5A	+40mV max	+50mV max	60W	86%
PSAES60O-15S	(120~370VDC)	15VDC	1%	4A			60W	86%
PSAES60O-24S		24VDC	1%	2.5A	(Vp-p)	(Vp-p)	60W	86%
PSAES60O-48S		48VDC	1%	1.25A			60W	86%

MODEL SELECTION TABLE									
	MODEL SELECTION TABLE								
	U-Chassis Models								
Model Number	Input Voltage Range	Output Voltage	Min Output Current	Max Output Current	Ripple	Noise	Output Power	Efficiency	
PSAES60U-5S		5VDC	1%	10A			50W	82%	
PSAES60U-9S		9VDC	1%	6.66A	<0.2% Vout	<0.5% Vout	60W	84%	
PSAES60U-12S	90~264VAC	12VDC	1%	5A	+40mV max	+50mV max	60W	86%	
PSAES60U-15S	(120~370VDC)	15VDC	1%	4A	(Vp-p)	(Vp-p)	60W	86%	
PSAES60U-24S		24VDC	1%	2.5A	(vp-b)	(vp-b)	60W	86%	
PSAES60U-48S		48VDC	1%	1.25A			60W	86%	

MODEL SELECTION TABLE									
	Enclosed Case Models								
Model Number Input Voltage Range Output Voltage Min Output Current Max Output Current Ripple Noise Output Power Efficie							Efficiency		
PSAES60C-5S		5VDC	1%	10A			50W	82%	
PSAES60C-9S		9VDC	1%	6.66A	<0.2% Vout	<0.5% Vout	60W	84%	
PSAES60C-12S	90~264VAC	12VDC	1%	5A	+40mV max	+50mV max	60W	86%	
PSAES60C-15S	(120~370VDC)	15VDC	1%	4A	(Vp-p)		60W	86%	
PSAES60C-24S		24VDC	1%	2.5A	(vp-p)	(Vp-p)	60W	86%	
PSAES60C-48S		48VDC	1%	1.25A			60W	86%	

MODEL SELECTION TABLE								
DIN Rail Models								
Model Number	Input Voltage Range	Output Voltage	Min Output Current	Max Output Current	Ripple	Noise	Output Power	Efficiency
PSAES60DN-5S		5VDC	1%	10A			50W	82%
PSAES60DN-9S		9VDC	1%	6.66A	<0.2% Vout +40mV max (Vp-p) <0.5% Vou +50mV ma (Vp-p)		60W	84%
PSAES60DN-12S	90~264VAC	12VDC	1%	5A			60W	86%
PSAES60DN-15S	_	15VDC	1%	4A			60W	86%
PSAES60DN-24S		24VDC	1%	2.5A		(vp-p)	60W	86%
PSAES60DN-48S		48VDC	1%	1.25A			60W	86%



SPECIFICATIONS

SPECIFICATIONS	a are board on 25°C Affects	Norm I In Time Normal Insut Voltage and	Full Load uplace	othonuico =	otod		
All specifications		Varm-Up Time, Normal Input Voltage, and change specifications based on technologi		otnerwise n	otea.		
SPECIFICATION		TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS		TEST SCREENIS		1,75	Wick	OTHE	
			90		264	VAC	
Input Voltage Range			120		370	VDC	
Frequency			47		63	Hz	
· · · ·	115VAC, Full Load				2		
Input Current	230VAC, Full Load				1	Α	
	115VAC				30		
Inrush Current (<2mS)	230VAC				50	Α	
OUTPUT SPECIFICATIONS							
Output Voltage				See ⁻	Table		
Voltage Accuracy				±2		%	
Line Regulation	LL-HL			±1		%	
Load Regulation	5-100%			±1		%	
Trim				±10		%	
Output Power				See ⁻	Table		
Output Current				See	Table		
Minimum Load			1			%	
Maximum Capacitive Load	@230VAC, Depends	on Model	470		23,000	μF	
D: 1 0 N :	Ripple		<0.2	% Vout + 4	0mV Max (V	p-p)	
Ripple & Noise	Noise			<0.5% Vout + 50mV Max (Vp-p)			
Hold-Up Time			10			mS	
Temperature Coefficient			-0.02		+0.02	%/°C	
PROTECTION			0.02		0.02	75, 0	
Short Circuit Protection				Automatic	Recovery		
Over Power Protection				Automatic			
Over Voltage Protection				Zener Dio	de Clamp		
ENVIRONMENTAL SPECIFICATION	ONS		<u> </u>				
Operating Temperature	With Derating		-40		+70	°C	
Storage Temperature			-50		+85	°C	
Humidity				95		%RH	
Cooling				Free Air C	onvection		
Vibration	10~500Hz, 2G, 10mii	n./1cycle, 60min. each along X, Y, Z axes					
MTBF	@25°C, MIL-HDBK-2	17F	130,000			Hours	
GENERAL SPECIFICATIONS							
Efficiency				See	Table		
	Input to Output				r 4242VDC		
Isolation	Input to FG			1500VAC			
	Output to FG			500VAC			
Leakage Current					0.5	mA	
PHYSICAL SPECIFICATIONS							
	Open Frame Models	(O Type)		5.29oz	(150g)		
Weight	U-Chassis Models (U	Type)		8.47oz	(240g)		
Weight	Enclosed Case Mode			9.17oz (260g)			
	DIN Rail Models (DN			9.35oz			
		Open Frame Models (O Type)		4.1in x 2.05in x 1.0in			
Dimensions (L x W x H)	Tolerance ±0.5mm	U-Chassis (U Type), Enclosed Case (C Type), & DIN Rail Models (DN Type)		(103.9mm x 52.1mm x 25.4mm) 4.13in x 2.28in x 1.5in (105.0mm x 58.0mm x 38.1mm)			
SAFETY CHARACTERISTICS		Type), & DIN Rail Wodels (DIN Type)	(105	.00 X 1111110.	UIIIII X 30. II	11111)	
Safety Approvals		CE, UL609	050(3)				
EMI	Conducted & Radiate		5022			Class	
EMS						Class	
ZIVIO	Noise Immunity	EN5	5024				

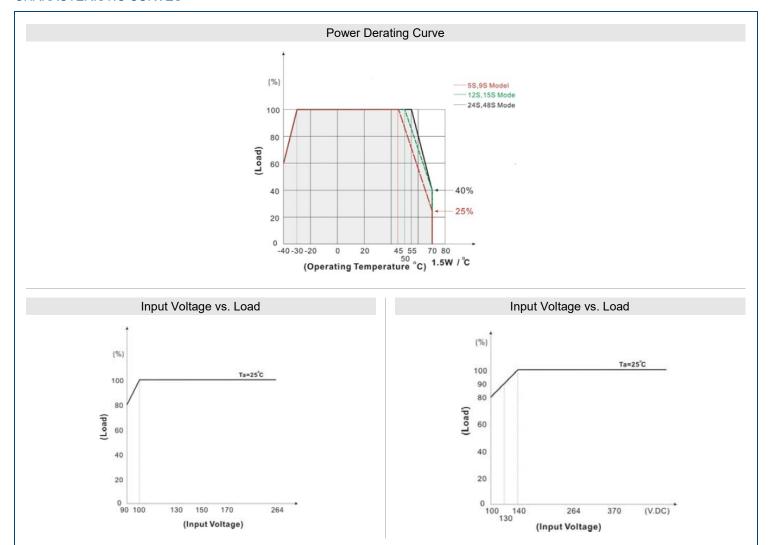
NOTES

- 1. Ripple & Noise measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
- 2. Strongly recommended to conduct this test with DC voltage. If customer wishes to test with AC voltage, disconnect all Y-Capacitors in supply.
- 3. This product is Listed to applicable standards and requirements by UL

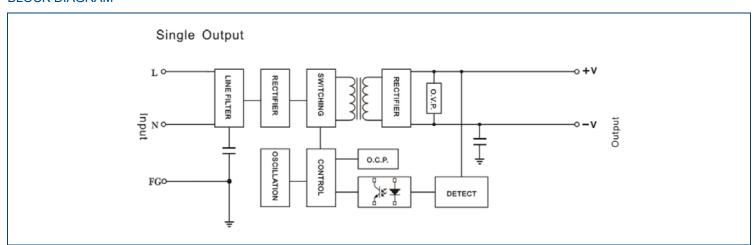
*Due to advances in technology, specifications subject to change without notice.



CHARACTERISTIC CURVES

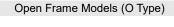


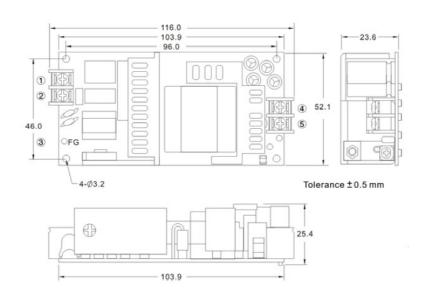
BLOCK DIAGRAM





MECHANICAL DRAWINGS





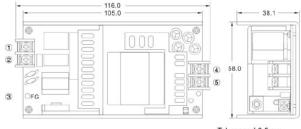
PIN Connections

PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	FG
4	+DC OUT
5	-DC OUT

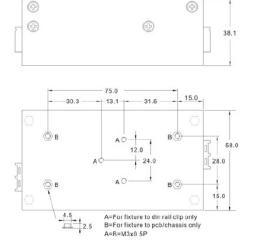
Assembly Instructions *U Case T=2.5mm

It is advised not to screw into the threads more than 2.5mm

U-Chassis Models (U Type)



Tolerance ± 0.5 mm



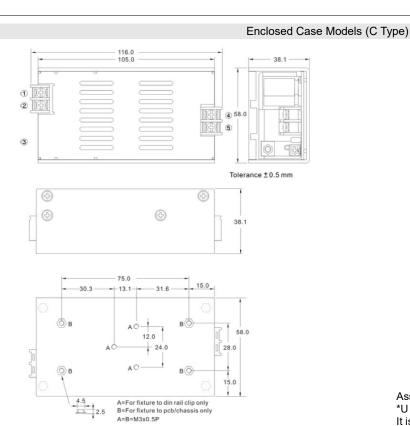
PIN Connections

PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	FG
4	+DC OUT
5	-DC OUT

Assembly Instructions *U Case T=2.5mm

It is advised not to screw into the threads more than 2.5mm





PIN Connection

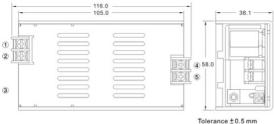
PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	FG
4	+DC OUT
5	-DC OUT

Assembly Instructions

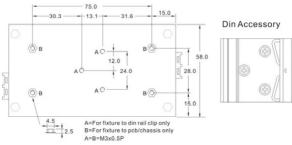
*U Case T=2.5mm

It is advised not to screw into the threads more than 2.5mm

DIN Rail Models (DN Type)







PIN Connection

PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	FG
4	+DC OUT
5	-DC OUT



MODEL NUMBER SETUP -

PSAES	60	O	_	5	S
Series Name	Output Power	Case Type		Ouptut Voltage	Output Quantity
		O: Open Frame		5: 5VDC	S: Single Output
		U : U-Chassis		9 : 9VDC	
		C: Enclosed Case		12 : 12VDC	
		DN: DIN Rail		15 : 15VDC	
				24 : 24VDC	
				48 : 48VDC	

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: 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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