



Size: 5in x 3in x 1.42in (127mm x 76.3mm x 36.2mm)

FEATURES

- High Efficiency
- RoHS Compliant
- Over Voltage, Over Current, and Short Circuit Protection
- 500pc MOQ
- 100% Burn-In
- 100% Hi-Pot Tested
- Single, Dual, Triple, and Quad Outputs
- UL/CUL, TUV, CB, CE, FCC Safety Approvals

DESCRIPTION

The PSEP1120 series of open frame power supplies offers up to 120 watts of output power in a 5" x 3" x 1.42" case. This series consists of single, dual, triple, and quad output models with an input range of 90~264VAC. These supplies are protected against over voltage, over current, and short circuit conditions. All models have UL/CUL, TUV, CB, CE, and FCC safety approvals and are RoHS compliant.

SINGLE OUTPUT MODELS

Model Number	Input Voltage Range	Main Power			Ripple & Noise	Efficiency
		Output Voltage Vo1 (V)	Output Load Io1(I)	Output Power Wo1(W)		
PSEP10800500	90~264VAC	5	16	80W	2% Max	≤80%-87%
PSEP11001200		12	8.33	100W		
PSEP10801800		18	4.44	80W		
PSEP10901800		18	5	90W		
PSEP11001800		18	5.56	100W		
PSEP11101800		18	6.11	110W		
PSEP11001900		19	5.26	100W		
PSEP11201900		19	6.32	120W		
PSEP11002400		24	4.17	100W		
PSEP11202400		24	5	120W		
PSEP11003600		36	2.78	100W		
PSEP11203600		36	3.33	120W		
PSEP11004800		48	2.08	100W		
PSEP11204800		48	2.5	120W		

DUAL OUTPUT MODELS

Model Number	Input Voltage Range	Main Power			Stand-By Power			-12V Power			Total Power	Ripple & Noise	Efficiency
		Output Voltage Vo1 (V)	Output Load Io1(I)	Output Power Wo1(W)	Output Voltage Vo2 (V)	Output Load Io2(I)	Output Power Wo2(W)	Output Voltage Vo3(V)	Output Load Io3(I)	Output Power Wo3(W)			
PSEP209005A0	90~264VAC	5	16	80	5	2	10				90	2% Max	≤80%-87%
PSEP211012A0		12	8.33	100	5	2	10				110		
PSEP211019A0		19	5.26	100	5	2	10				110		
PSEP211024A0		24	4.17	100	5	2	10				110		
PSEP211036A0		36	2.78	100	5	2	10				110		
PSEP211048A0		48	2.08	100	5	2	10				110		
PSEP208605B0		5	16	80				-12	0.5	6	86		
PSEP210612B0		12	8.33	100				-12	0.5	6	106		
PSEP211019B0		19	5.47	104				-12	0.5	6	110		
PSEP211024B0		24	4.33	104				-12	0.5	6	110		
PSEP211036B0		36	2.89	104				-12	0.5	6	110		
PSEP211048B0		48	2.17	104				-12	0.5	6	110		

TRIPLE OUTPUT MODELS

Model Number	Input Voltage Range	Main Power			Stand-By Power			-12V Power			Dc to DC Power			Total Power	Ripple & Noise	Efficiency
		Output Voltage Vo1 (V)	Output Load Io1(I)	Output Power Wo1(W)	Output Voltage Vo2 (V)	Output Load Io2(I)	Output Power Wo2(W)	Output Voltage Vo3(V)	Output Load Io2(I)	Output Power Wo2(W)	Output Voltage Vo4(V)	Output Load Io4(I)	Output Power Wo4(W)			
PSEP309005C0	90~264 VAC	5	14.80	74	5	2	10	-12	0.5	6				90	2% Max.	≤80%-87%
PSEP311012C0		12	7.83	94	5	2	10	-12	0.5	6				110		
PSEP311019C0		19	4.95	94	5	2	10	-12	0.5	6				110		
PSEP311024C0		24	3.92	94	5	2	10	-12	0.5	6				110		
PSEP311036C0		36	2.61	94	5	2	10	-12	0.5	6				110		
PSEP311048C0		48	1.96	94	5	2	10	-12	0.5	6				110		
PSEP311012AA		12	7.5	90	5	2	10				5	2	10	110		
PSEP311012AB		12	7.08	85	5	2	10				5	3	15	110		
PSEP311019AA		19	4.74	90	5	2	10				5	2	10	110		
PSEP311019AB		19	4.47	85	5	2	10				5	3	15	110		
PSEP311019AC		19	4.00	76	5	2	10				12	2	24	110		
PSEP311019AD		19	3.37	64	5	2	10				12	3	36	110		
PSEP311024AA		24	3.75	90	5	2	10				5	2	10	110		
PSEP311024AB		24	3.54	85	5	2	10				5	3	15	110		
PSEP311024AC		24	3.17	76	5	2	10				12	2	24	110		
PSEP311024AD		24	2.67	64	5	2	10				12	3	36	110		

QUAD OUTPUT MODELS

Model Number	Input Voltage Range	Main Power			Stand-By Power			-12V Power			Dc to DC Power			Total Power	Ripple & Noise	Efficiency
		Output Voltage Vo1 (V)	Output Load Io1(I)	Output Power Wo1(W)	Output Voltage Vo2 (V)	Output Load Io2(I)	Output Power Wo2(W)	Output Voltage Vo3(V)	Output Load Io2(I)	Output Power Wo2(W)	Output Voltage Vo4(V)	Output Load Io4(I)	Output Power Wo4(W)			
PSEP411012CA	90~264 VAC	12	7.00	84	5	2	10	-12	0.5	6	5	2	10	110	2% Max.	≤80%-87%
PSEP411012CB		12	6.58	79	5	2	10	-12	0.5	6	5	3	15	110		
PSEP411019CA		19	4.42	84	5	2	10	-12	0.5	6	5	2	10	110		
PSEP411019CB		19	4.16	79	5	2	10	-12	0.5	6	5	3	15	110		
PSEP411019CC		19	3.68	70	5	2	10	-12	0.5	6	12	2	24	110		
PSEP411019CD		19	3.05	58	5	2	10	-12	0.5	6	12	3	36	110		
PSEP411024CA		24	3.50	84	5	2	10	-12	0.5	6	5	2	10	110		
PSEP411024CB		24	3.29	79	5	2	10	-12	0.5	6	5	3	15	110		
PSEP411024CC		24	2.92	70	5	2	10	-12	0.5	6	12	2	24	110		
PSEP411024CD		24	2.42	58	5	2	10	-12	0.5	6	12	3	36	110		

SPECIFICATIONS

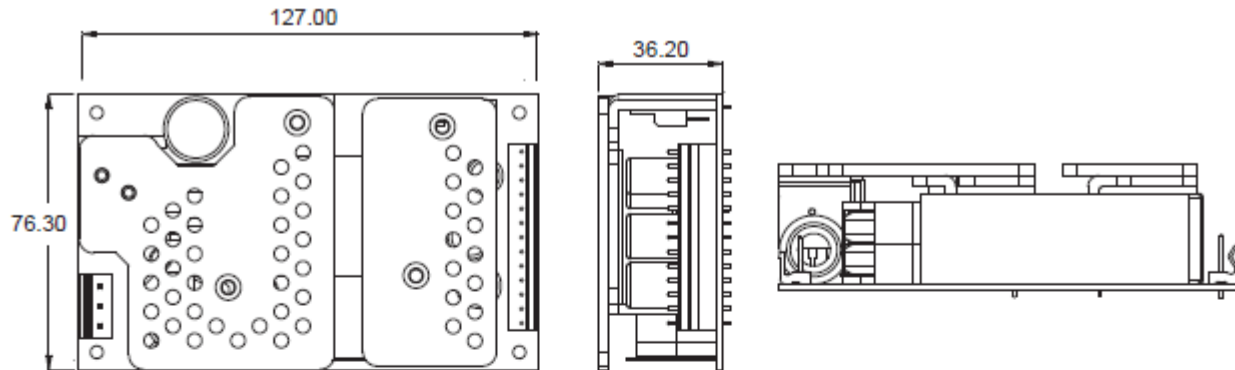
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS		Min	Typ	Max	Unit
INPUT SPECIFICATIONS						
Input Voltage Range			90		264	VAC
Input Current				≤2.5		A
Inrush Current	@230 VAC, Cold Start@25°C			≤120		A
OUTPUT SPECIFICATIONS						
Output Voltage			See Table			
Load Regulation ⁽³⁾	Single Output	Main Power			±3	%
	Dual Output	Main Power			±3	
		Stand-by or -12V			±3 or ±10	
	Triple Output	Main Power			±3	
		Stand-By or -12V			±3	
		DC-DC or -12V			±3 or ±10	
	Quad Output	Main Power			±3	
		DC-DC Power			±3	
		-12V Power			±10	
Stand-By Power				±3		
Output Power			See Table			
Ripple & Noise (20MHz bandwidth)					2	%
Turn On Time				≤3		S
PROTECTION						
Short Circuit Protection			Latch off or Auto Recovery			
Over Current Protection			Latch off or Auto Recovery			
Over Voltage Protection			Latch off or Auto Recovery			
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature			0		50	°C
Storage Temperature			-20		85	°C
Storage Humidity			5		95	%
MTBF			30,000			hours
GENERAL SPECIFICTIONS						
Efficiency			≤80%-87%			
PHYSICAL SPECIFICATIONS						
Weight			15.87oz (450g)			
Dimensions (L x W x H)			5in x 3in x 1.42in (127mm x 76.3mm x 36.2mm)			
SAFETY CHARACHTERISTICS						
Safety Approvals			UL/CUL TUV CB CE FCC			

NOTES

- (1) Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
- (2) Efficiency depends on models.
- (3) Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- (4) Max. Power (W) ≥Vo x Io

MECHANICAL DRAWINGS



- Mechanical Size: 127.0 X 76.3 X 36.2 (mm)
- AC Input Connector: JST/B5P-VH Series or equivalent
- DC Output Connector P2 : JST/B13P-VH Series or equivalent
- DC Output Connector PS3 : Goldenconn/BB2009W4HT Series or equivalent
- Pin Assignment:
P2:

P1-4	P5-8,10,13	P9	P11	P12
Main power	GND	-12V Power	Vout2	Stand-by Power

PS3 :

P1	P2	P3	P4
Reset	PS/ON	GND	PG

- Weight: 450g

MODEL NUMBER SETUP

PSEP	3	110	19	A	B
Series Name	Number of Outputs	Total Power	Output Voltage	Standby or -12V Power	DC to DC Power
	1: Single	80: 80 Watts	05: 5V	0: N/A	0: N/A
	2: Dual	86: 86 Watts	12: 12V	A: Stand By	A: 5V/2A
	3: Triple	90: 90 Watts	18: 18V	B: -12V	B: 12V/2A
	4: Dual	96: 96 Watts	19: 19V	C: Standby +(-12V)	C: 12V/2A
		100: 100 Watts	24: 24V		D: 12V/3A
		106: 106 Watts	36: 36V		
		110: 110 Watts	48: 48V		
		120: 120 Watts			

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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