

Size: 4in x 2in x 1.24in (101.6mm x 50.8mm x 31.5mm)

FEATURES

- Wide Input Voltage Range of 90-264VAC
- High Efficiency Up to 88%
- RoHS Compliant
- 100% Burn-In and Hi-Pot Tested
- MTBF >50,000 Hours
- 500 pc MOQ for Production
- Single, Dual, and Triple Outputs Available
- Over Voltage, Over Current, and Short Circuit Protection
- Meets CEC Level V
- Output Power Up to 65 Watts
- Open Frame Design
- UL/CUL, CB, and FCC Safety Approvals

DESCRIPTION

The PSEP1065 series of AC/DC open frame power supplies offers 30-65 watts of output power in a compact 4" x 2" x 1.24" package. This series consists of single, dual, and triple outputs with a wide input voltage range of 90-264VAC. Each model in this series is RoHS compliant and offers over voltage, over current, and short circuit protection. This series has also been 100% burn-in and hi-pot tested and offers UL/CUL, CB, and FCC safety approvals.

MODEL SELECTION TABLE

Single Output Models

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current	Ripple & Noise	Load Regulation
PSEP1065-1200	90-264VAC	65W	12V	5.41A	±2% Max.	±3% Max.
PSEP1065-1500			15V	4.33A		
PSEP1065-1900			19V	3.42A		
PSEP1065-2400			24V	2.70A		
PSEP1065-3600			36V	1.08A		
PSEP1065-4800			48V	1.35A		
PSEP1060-1200	90-264VAC	60W	12V	5.00A	±2% Max.	±3% Max.
PSEP1060-1500			15V	4.00A		
PSEP1060-1900			19V	3.15A		
PSEP1060-2400			24V	2.50A		
PSEP1060-3600			36V	1.66A		
PSEP1060-4800	48V	1.25A				
PSEP1050-0500	90-264VAC	50W	5V	10.00A	±2% Max.	±3% Max.
PSEP1050-1200			12V	4.16A		
PSEP1050-1500			15V	3.33A		
PSEP1050-1900			19V	2.63A		
PSEP1050-2400			24V	2.08A		
PSEP1050-3600			36V	1.38A		
PSEP1050-4800	48V	1.04A				
PSEP1045-0500	90-264VAC	45W	5V	9.00A	±2% Max.	±3% Max.
PSEP1045-1200			12V	3.75A		
PSEP1045-1500			15V	3.00A		
PSEP1045-1900			19V	2.36A		
PSEP1045-2400			24V	1.87A		
PSEP1045-3600			36V	1.25A		
PSEP1045-4800	48V	0.93A				
PSEP1040-0500	90-264VAC	40W	5V	8.00A	±2% Max.	±3% Max.
PSEP1040-1200			12V	3.33A		
PSEP1040-1500			15V	2.66A		
PSEP1040-1900			19V	2.10A		
PSEP1040-2400			24V	1.66A		
PSEP1040-3600			36V	1.11A		
PSEP1040-4800	48V	0.83A				
PSEP1030-0500	90-264VAC	30W	5V	6.00A	±2% Max.	±3% Max.
PSEP1030-1200			12V	2.50A		
PSEP1030-1500			15V	2.00A		
PSEP1030-1900			19V	1.57A		
PSEP1030-2400			24V	1.25A		

MODEL SELECTION TABLE

Dual Output Models

Model Number	Input Voltage Range	Total Output Power	Main Power (Output 1)			Output 2			Ripple & Noise	Load Regulation
			Output Voltage	Output Current	Output Power 1	Output Voltage	Output Current	Output Power 2		
PSEP1065-12D0	90-264VAC	65W	12V	5.20A	62.5W	5V	0.5A	2.5W	±2% Max.	±5% Max.
PSEP1065-15D0			15V	4.16A	62.5W	5V	0.5A	2.5W		
PSEP1065-19D0			19V	3.28A	62.5W	5V	0.5A	2.5W		
PSEP1065-24D0			24V	2.60A	62.5W	5V	0.5A	2.5W		
PSEP1065-12E3			12V	4.16A	50W	5V	3A	15W		
PSEP1065-24E3			24V	2.08A	50W	5V	3A	15W		
PSEP1065-12E4			12V	3.75A	45W	5V	4A	20W		
PSEP1065-24E4			24V	1.87A	45W	5V	4A	20W		
PSEP1050-12D0	90-264VAC	50W	12V	3.95A	47.5W	5V	0.5A	2.5W	±2% Max.	±5% Max.
PSEP1050-15D0			15V	3.16A	47.5W	5V	0.5A	2.5W		
PSEP1050-19D0			19V	2.50A	47.5W	5V	0.5A	2.5W		
PSEP1050-24D0			24V	1.97A	47.5W	5V	0.5A	2.5W		
PSEP1050-12E3			12V	2.91A	35W	5V	3A	15W		
PSEP1050-24E3			24V	1.45A	35W	5V	3A	15W		
PSEP1050-12E4			12V	2.50A	30W	5V	4A	20W		
PSEP1050-24E4			24V	1.25A	30W	5V	4A	20W		
PSEP1045-12D0	90-264VAC	45W	12V	3.54A	42.5W	5V	0.5A	2.5W	±2% Max.	±5% Max.
PSEP1045-15D0			15V	2.83A	42.5W	5V	0.5A	2.5W		
PSEP1045-19D0			19V	2.23A	42.5W	5V	0.5A	2.5W		
PSEP1045-24D0			24V	1.77A	42.5W	5V	0.5A	2.5W		
PSEP1045-12E2			12V	2.91A	35W	5V	2A	10W		
PSEP1045-24E2			24V	1.45A	35W	5V	2A	10W		
PSEP1045-12E3			12V	2.50A	30W	5V	3A	15W		
PSEP1045-24E3			24V	1.25A	30W	5V	3A	15W		
PSEP1040-12D0	90-264VAC	40W	12V	3.12A	37.5W	5V	0.5A	2.5W	±2% Max.	±5% Max.
PSEP1040-15D0			15V	2.50A	37.5W	5V	0.5A	2.5W		
PSEP1040-19D0			19V	1.97A	37.5W	5V	0.5A	2.5W		
PSEP1040-24D0			24V	1.56A	37.5W	5V	0.5A	2.5W		
PSEP1040-12E2			12V	2.50A	30W	5V	2A	10W		
PSEP1040-24E2			24V	1.25A	30W	5V	2A	10W		
PSEP1040-12E3			12V	2.08A	25W	5V	3A	15W		
PSEP1040-24E3			24V	1.04A	25W	5V	3A	15W		
PSEP1030-12D0	90-264VAC	30W	12V	2.29A	27.5W	5V	0.5A	2.5W	±2% Max.	±5% Max.
PSEP1030-15D0			15V	1.83A	27.5W	5V	0.5A	2.5W		
PSEP1030-19D0			19V	1.44A	27.5W	5V	0.5A	2.5W		
PSEP1030-24D0			24V	1.14A	27.5W	5V	0.5A	2.5W		
PSEP1030-12E2			12V	1.66A	20W	5V	2A	10W		
PSEP1030-24E2			24V	0.83A	20W	5V	2A	10W		

MODEL SELECTION TABLE

Triple Output Models

Model Number	Input Voltage Range	Total Output Power	Main Power (Output 1)			Output 2			Output 3			Ripple & Noise	Load Regulation
			Output Voltage	Output Current	Output Power 1	Output Voltage	Output Current	Output Power 2	Output Voltage	Output Current	Output Power 3		
PSEP1065-12T3	90-264VAC	65W	12V	3.86A	46.4W	5V	3A	15W	-12V	0.3A	3.6W	±2% Max.	±5% Max.
PSEP1065-12T4			12V	3.45A	41.4W	5V	4A	20W	-12V	0.3A	3.6W		
PSEP1050-12T3	90-264VAC	50W	12V	2.61A	31.4W	5V	3A	15W	-12V	0.3A	3.6W	±2% Max.	±5% Max.
PSEP1050-12T4			12V	2.20A	26.4W	5V	4A	20W	-12V	0.3A	3.6W		
PSEP1045-12T2	90-264VAC	45W	12V	2.61A	31.4W	5V	2A	10W	-12V	0.3A	3.6W	±2% Max.	±5% Max.
PSEP1045-12T3			12V	2.20A	26.4W	5V	3A	15W	-12V	0.3A	3.6W		
PSEP1065-24T3	90-264VAC	65W	24V	1.93A	46.4W	5V	3A	15W	-12V	0.3A	3.6W	±2% Max.	±5% Max.
PSEP1065-24T4			24V	1.72A	41.4W	5V	4A	20W	-12V	0.3A	3.6W		
PSEP1050-24T3	90-264VAC	50W	24V	1.30A	31.4W	5V	3A	15W	-12V	0.3A	3.6W	±2% Max.	±5% Max.
PSEP1050-24T4			24V	1.10A	26.4W	5V	4A	20W	-12V	0.3A	3.6W		
PSEP1045-24T2	90-264VAC	45W	24V	1.30A	31.4W	5V	2A	10W	-12V	0.3A	3.6W	±2% Max.	±5% Max.
PSEP1045-24T3			24V	1.10A	26.4W	5V	3A	15W	-12V	0.3A	3.6W		

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.

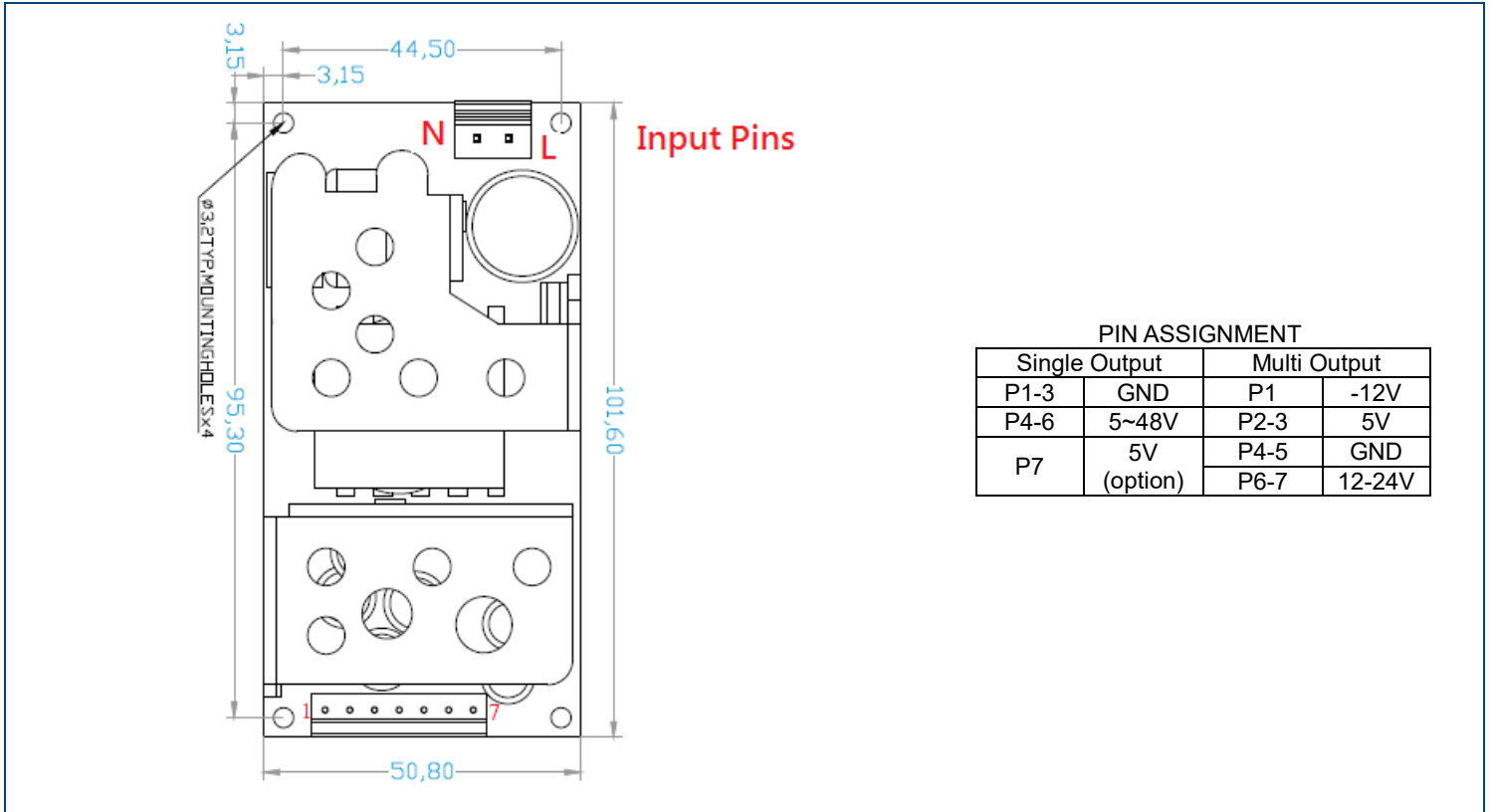
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90		264	VAC
Input Current				≤1.5	A
Inrush Current	@220V, Cold start, maximum Load			≤120	A
OUTPUT SPECIFICATIONS					
Output Voltage			See Table		
Load Regulation	Single Output Models Dual and Triple Output Models			±3 ±5	%
Output Power			See Table		
Output Current			See Table		
Ripple & Noise (20MHz bandwidth)(1)				±2	%
Turn-On Time				≤3	S
PROTECTION					
Short Circuit Protection			Automatic Recovery		
Over Current Protection			Automatic Recovery		
Over Voltage Protection			Latch Off or Automatic Recovery		
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		0		50	°C
Storage Temperature		-20		85	°C
Storage Humidity		5		95	%
MTBF		50,000			hours
GENERAL SPECIFICATIONS					
Efficiency ⁽²⁾		80		88	%
PHYSICAL SPECIFICATIONS					
Weight			7.05oz (200g)		
Dimensions (L x W x H)			4in x 2in x 1.24in (101.6mm x 50.8mm x 31.50mm)		
AC Input Connector			Molex 09-65-2048 or Equivalent		
DC Output Connector			JST VH Series or Equivalent		
SAFETY					
Safety Approvals		UL/CUL ⁽⁴⁾ CB FCC			

NOTES

- (1) Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1µF ceramic capacitor & parallel with 47µF aluminum capacitor at full load and nominal line.
- (2) Efficiency depends on model. Meets CEC Level V.
- (3) Line Regulation is defined by changing ±10% of input voltage from nominal line at rated line.
- (4) This product is listed to applicable standards and requirements by UL.
- (5) Effective Sept. 2023, this series will no longer meet TUV/CE standards. This standard has been updated and we are not proceeding certifying this series to the new standard.

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

MECHANICAL DRAWINGS



MODEL NUMBER SETUP

PSEP	1065	-	12	E	3
Series Name	Output Power		Main Output Voltage	Second Output	Third Output
	1065: 65W		12: 12V	0: N/A	0: N/A
	1060: 60W		15: 15V	D: 5V (0.5A)	2: 5V/2A
	1050: 50W		19: 19V	E: 5V (2A~4A)	3: 5V/3A
	1045: 45W		24: 24V	T: 5V+(-12V/0.3A)	4: 5V/4A
	1040: 40W		36: 36V		
	1030: 30W		48: 48V		

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.

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