

# Desk Top Power Supplies

**POWER**  
**SOLVE**

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## PSE45 Series 24 - 50 Watts Switch Mode Universal AC Input

The PSE45 series of AC/DC switching power supplies offer up to 50 Watts of continuous output power from a universal AC input.

All models meet CISPR class 'B' and FCC class 'B' emission limits and carry full UL, cUL & TUV(EN60950) safety approvals.



### Features

- Single, dual or triple output versions
- Optional output connectors
- 100% burn-in
- Wide input voltage range of 90 to 264 VAC
- Input surge current protection
- Overvoltage protection
- Overcurrent protection

### Electrical Specification

#### INPUT

Input voltage	90 to 264 VAC
Input frequency	47 to 63 Hz
Input current	1.3A 115 VAC, 0.7A (rms) 230 VAC
Earth leakage current	0.5mA typical, 0.75mA max

#### OUTPUT

Output voltage	See table
Output current	See table
Output power	See table
Ripple & noise	0.5% typical, 1% max peak to peak
Overvoltage protection	112-132% nominal output
Overcurrent protection	110-150% nominal current
Temperature coefficient	All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum
Transient response	4mS 50-100% load change

#### ENVIRONMENTAL

Operating temperature	0°C to +70°C, derate linearly from 100% at 40°C to 50% at 70°C
Storage temperature	-40°C to +85°C
Relative Humidity	5% to 95%

#### GENERAL

Efficiency	75-88% depending on model
Hold-up time	16 mS at 100VAC input and full load
Line regulation	0.5% typical, 1% max
Load regulation	3% typical, 5% max
EMC	Conform to EN550022'B', FCC Part 15'B' and CISPR 22 class'B'

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Output Voltage/Current Rating Chart - PSE45 Series

MODEL	OUTPUT	TOTAL REGULATION	MAX POWER
PSE45-05	5V 8A	5%	40 Watts
PSE45-09	9V 5A	3%	45 Watts
PSE45-12	12V 3.75A	3%	45 Watts
PSE45-16	16V 2.81A	3%	45 Watts
PSE45-24	24V 2.08A	2%	50 Watts
PSE45-48	48V 1.04A	2%	50 Watts

Standard models fitted with 1.8 Metre output lead fitted with 2.5 x 5.5 x 11mm Female Barrel Connector, wired centre positive.

**Options:** Alternative output connectors available, consult sales office with your requirements.

Any output voltage available within the range of 2V to 50V DC.

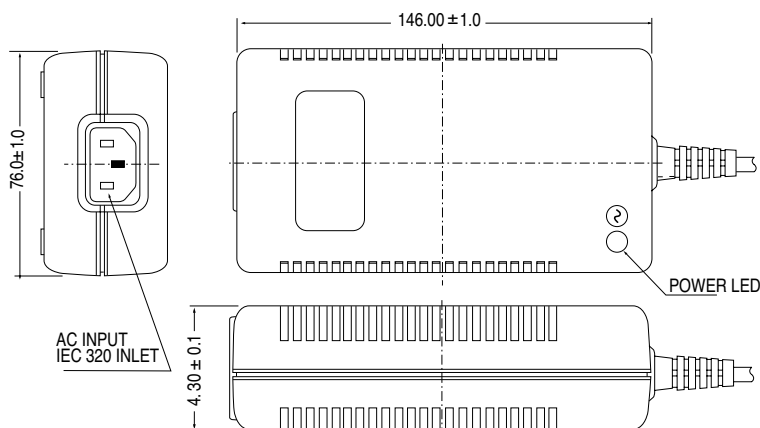
Some of these may be subject to minimum order quantities.

MODEL	OUTPUT 1				OUTPUT 2				OUTPUT 3				MAXIMUM OUTPUT POWER
	VNOM	IMIN	IMAX	TOL.	VNOM	IMIN	IMAX	TOL.	VNOM	IMIN	IMAX	TOL.	
PSE45-3312	+3.3V	0.5A	5A	5%	+12V	0.2A	2A	5%	-	-	-	-	40W
PSE45-512	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-	-	-	-	42W
PSE45-515	+5V	0.5A	5A	5%	+15V	0.2A	1.5A	6%	-	-	-	-	42W
PSE45-524	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%	-	-	-	-	42W
PSE45-335	+3.3V	1.0A	5A	5%	+5V	0.4A	2A	5%	-	-	-	-	26.5W
PSE45-1212	+12V	0.5A	3A	5%	-12V	0.2A	1A	5%	-	-	-	-	42W
PSE45-1515	+15V	0.5A	2A	5%	-15V	0.2A	1A	5%	-	-	-	-	42W
PSE45-524N	+5V	0.5A	5A	5%	-24V	0.1A	1A	5%	-	-	-	-	42W
PSE45-57	+5.1V	0A	1A	5%	+7.2V	0.2A	2.6A	5%	-	-	-	-	23.8W
PSE45-1010	+10.5V	0.2A	2A	5%	-10.5V	0.2A	2A	5%	-	-	-	-	42W
PSE45-331212	+3.3V	0.5A	5A	5%	+12V	0.2A	2A	5%	-12V	0A	0.8A	5%	42W
PSE45-5125	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-5V	0A	0.8A	5%	42W
PSE45-51212	+5V	0.5A	5A	5%	+12V	0.2A	2A	5%	-12V	0A	0.8A	5%	42W
PSE45-51515	+5V	0.5A	5A	5%	+15V	0.2A	2A	6%	-15V	0A	0.8A	5%	42W
PSE45-52424	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%	-24V	0A	0.5A	5%	42W
PSE45-52412	+5V	0.5A	5A	5%	+24V	0.1A	1A	5%	-12V	0A	0.8A	5%	42W
PSE45-33125	+3.3V	0.5A	5A	5%	+12V	0.2A	2A	5%	-5V	0A	0.8A	5%	42W

Standard models fitted with a 1.2 metre output lead fitted with a 180 degree DIN plug.

**Options:** Alternative output connectors available, consult sales office for details.

## MECHANICAL DIMENSIONS mm



**NOTE:**

1. Dimensions shown in mm
2. Weight: 300-350gs approx.