

# 24 Watts UNIVERSAL INPUT SWITCH MODE

## DESKTOP POWER SUPPLIES

### PSE24 SERIES

#### DESCRIPTION

The PSE24 series of AC/DC switching power supplies offer 24 watts of continuous output power. All models meet CISPR class B and FCC class B emission limits, and comply with UL, CSA, VDE and IEC requirements.

#### FEATURES

- 9 standard models
- Single output
- Optional output connectors
- 100% burn-in
- Wide input voltage range of 85 to 264 VAC
- Input surge current protection
- Overcurrent protection
- Overvoltage protection

#### SAFETY APPROVALS

- UL, cUL
- CE
- TUV (EN60950)



#### ELECTRICAL SPECIFICATIONS

##### INPUT

Input voltage	85 to 264 VAC
Input frequency	47 to 440 Hz
Input current	0.54A (rms) for 115 VAC, 0.24A (rms) for 230 VAC
Safety ground leakage current	0.75mA max @ 240 VAC 50Hz

##### OUTPUT

Output voltage	See Rating Chart
Output current	See Rating Chart
Output power range	0 to 24 watts
Ripple	1% peak to peak maximum
Overvoltage protection	Provided on output; set at 112-132% of its nominal output voltage
Overcurrent protection	All outputs protected to short circuit conditions
Temperature coefficient	All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum
Transient response	Maximum excursion of 4% or better on all models. recovering to 1% of final value within 500 $\mu\text{s}$ after a 25% step load change

##### ENVIRONMENTAL

Operating temperature	0°C to +70°C
Derating	Derated from 100% at +40°C linearly to 50% at +70°C
Storage temperature	-40°C to +85°C
Relative Humidity	5% to 95% non-condensing

##### GENERAL

Efficiency	65% minimum at 24W output
Hold-up time	5 msec minimum
Line regulation	$\pm 0.5\%$ maximum at full load
Inrush current	10 amps @ 115 VAC, or 60 amps @ 230 VAC at 25°C cold start
Withstand voltage	3000 VAC from input to output, 1500 VAC from input to ground, 500 VAC from output to ground.
Insulation resistance	50 Mohm minimum from output to ground
Mean time between failure	100,000 hours minimum at full load at 25°C ambient
EMI requirements	Meets conduction limits of (a) FCC 20780 CLASS B (b) CISPR CLASS B
Safety requirements	Meets or exceeds: (a) UL 1950 (b) CSA C22.2 No. 234 (c) IEC 950

## OUTPUT VOLTAGE/CURRENT RATING CHART - PSE24 SERIES

MODEL	V NOM	RATED OUTPUT		TOL	MAXIMUM OUTPUT POWER
		I MIN	I MAX		
PSE24-1XX	5-6V	0A	3.00-2.5A	5%	15W
PSE24-11XX	6-8V	0A	3.33-2.5A	5%	20W
PSE24-2XX	9-11V	0A	2.44-2.00A	5%	22W
PSE24-3XX	11-13V	0A	2.18-1.84A	5%	24W
PSE24-4XX	13-16V	0A	1.84-1.50A	5%	24W
PSE24-5XX	16-21V	0A	1.50-1.14A	5%	24W
PSE24-6XX	21-27V	0A	1.14-0.88A	5%	24W
PSE24-7XX	27-33V	0A	0.88-0.72A	5%	24W
PSE24-8XX	33-40V	0A	0.72-0.60A	5%	24W
PSE24-9XX	40-48V	0A	0.60-0.50A	5%	24W

Note: XX = Output voltage required e.g. 5V part number = PSE24-105

## DRAWINGS

### MECHANICAL DIMENSIONS MM

