

15 Watts UNIVERSAL INPUT SWITCH MODE

DESKTOP POWER SUPPLIES

PSE15 SERIES

DESCRIPTION

The PSE15 series of AC/DC switching power supplies offer 15 watts of continuous output power. All models meet CISPR class B and FCC class B emissions limit, and are designed to comply with UL, CSA, VDE and IEC requirements.

FEATURES

- 9 standard models
- Single output
- Optional output connectors
- Optional inlet connectors
- 100% Burn-in
- Wide input voltage range 90 to 264 VAC
- Input surge current protection
- Overcurrent protection
- Overvoltage protection

SAFETY APPROVALS

- UL, cUL
- CE
- TUV



ELECTRICAL SPECIFICATIONS

INPUT

Input voltage	90-264 VAC
Input frequency	47-440 Hz
Input current	0.43A (rms) for 115 VAC, 0.23A (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 15 watts
Ripple	1% peak to peak maximum
Overcurrent protection	All outputs protected to short circuit condition
Temperature coefficient	All outputs $\pm 0.04\%$ / °C maximum
Transient response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change

ENVIRONMENTAL

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

GENERAL

Efficiency	65% minimum at full output
Hold-up time	5 msec minimum
Line regulation	$\pm 0.5\%$ maximum at full load
Insulation resistance	50 Mohm minimum from output to ground
Withstand voltage	3000 VAC from input to output 1500 VAC from output to ground
MTBF	100,000 hours minimum at full load at 25°C ambient
EMI requirements	Meets conduction limits of (a) FCC PART 15 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 - PSE15 SERIES

MODEL	RATED OUTPUT			TOL	MAXIMUM OUTPUT POWER	DIM.	MODEL	RATED OUTPUT			TOL	MAXIMUM OUTPUT POWER	DIM.
	V NOM	I MIN	I MAX					V NOM	I MIN	I MAX			
PSE15-1XXA	3-6V	0A	2.50A	5%	10W	FIG 1	PSE15-1XXB	3-6V	0A	2.50A	5%	10W	FIG 2
PSE15-11XXA	6-8V	0A	1.67A	5%	10W	FIG 1	PSE15-11XXB	6-8V	0A	1.67A	5%	10W	FIG 2
PSE15-2XXA	8-11V	0A	1.87A	5%	15W	FIG 1	PSE15-2XXB	8-11V	0A	1.87A	5%	15W	FIG 2
PSE15-3XXA	11-13V	0A	1.36A	5%	15W	FIG 1	PSE15-3XXB	11-13V	0A	1.36A	5%	15W	FIG 2
PSE15-4XXA	13-16V	0A	1.15A	5%	15W	FIG 1	PSE15-4XXB	13-16V	0A	1.15A	5%	15W	FIG 2
PSE15-5XXA	16-21V	0A	0.94A	5%	15W	FIG 1	PSE15-5XXB	16-21V	0A	0.94A	5%	15W	FIG 2
PSE15-6XXA	21-27V	0A	0.72A	5%	15W	FIG 1	SPSE15-6XXB	21-27V	0A	0.72A	5%	15W	FIG 2
PSE15-7XXA	27-33V	0A	0.55A	5%	15W	FIG 1	PSE15-7XXB	27-33V	0A	0.55A	5%	15W	FIG 2
PSE15-8XXA	33-48V	0A	0.45A	5%	15W	FIG 1	PSE15-8XXB	33-48V	0A	0.45A	5%	15W	FIG 2
PSE15-1XXC	34V	0A	2.50A	5%	10W	FIG 3	PSE15-1XXD	34V	0A	2.50A	5%	10W	FIG 4
PSE15-11XXC	6-8V	0A	1.67A	5%	10W	FIG 3	PSE15-11XXD	6-8V	0A	1.67A	5%	10W	FIG 4
PSE15-2XXC	8-11V	0A	1.87A	5%	15W	FIG 3	PSE15-2XXD	8-11V	0A	1.87A	5%	15W	FIG 4
PSE15-3XXC	11-13V	0A	1.36A	5%	15W	FIG 3	PSE15-3XXD	11-13V	0A	1.36A	5%	15W	FIG 4
PSE15-4XXC	13-16V	0A	1.15A	5%	15W	FIG 3	PSE15-4XXD	13-16V	0A	1.15A	5%	15W	FIG 4
PSE15-5XXC	16-21V	0A	0.94A	5%	15W	FIG 3	PSE15-5XXD	16-21V	0A	0.94A	5%	15W	FIG 4
PSE15-6XXC	21-27V	0A	0.72A	5%	15W	FIG 3	PSE15-6XXD	21-27V	0A	0.72A	5%	15W	FIG 4
PSE15-7XXC	27-33V	0A	0.55A	5%	15W	FIG 3	PSE15-7XXD	27-33V	0A	0.55A	5%	15W	FIG 4
PSE15-8XXC	33-48V	0A	0.45A	5%	15W	FIG 3	PSE15-8XXD	33-48V	0A	0.45A	5%	15W	FIG 4

Note: XX = Output voltage required e.g. 5V part number = PSE15-105A

DRAWINGS

MECHANICAL DIMENSIONS MM

