

Features

- Universal AC input: 90 to 264VAC
- Output voltage is +48V @ 0.5A full load
- Short circuit protection
- Overload and overvoltage protection
- Approvals from UL, CUL, TUV, CCC, CB, FCC, CE
- LED indicator for Power-On visual status
- High energy efficiency, ErP Step 2 rated
- Operating temperature: -10° to +50°C
- Small size: 81 x 43 x 40.5mm

Product Description

WinSystems' PS-WT24-48-US is a small, convection cooled, 24W wall wart power supply for use with WinSystems' Power over Ethernet (PoE) boards. The unit can be used as a power source for Power Sourcing Equipment (PSE) devices or auxiliary power input for Power Devices (PD). It is a universal design that accepts 90 to 264VAC input and generates up to 0.5A of current at +48 volts.

The unit meets various safety and EMC standards. It is UL60950-1, CSA C22.2, TUV EN60950-1, and CCC GB4943 approved. For EMC emission, it is compliant to EN55022, EN61000-3-2, 3, FCC Part 15, and GB9254 class B. For EMC immunity, it is compliant with EN61000-4-2, 3, 4, 5, 6, 8, and 11 light industry level criteria A.

The standard ordering option comes with a USA standard AC inlet plug. Other plug styles are available for Europe, Australia, and UK. The output cable is about 56 inches long with both wires stripped and tinned. The wire containing the positive voltage is marked with light-grey dashed lines.

Technical Support and Custom Configurations -

WinSystems offers free support to speed your initial design cycle into production. Our engineers are dedicated to answering your questions.

Ordering Information

PS-WT24-48-US 24W power supply with US AC inlet plug



Technical Specifications

Output	DC Voltage	48V
	Rated Current	0.5A
	Current Range	0~0.5A
	Rated Power	24W
	Ripple & Noise (max.)	300mV p-p
	Voltage Tolerance	±3%
	Line Regulation	±1%
	Load Regulation	±3%
	Setup, Rise Time	4000mS, 100mS 115VAC
	Hold Time (typ.)	10 mS/115VAC
Input	Voltage Range	90~264VAC
	Frequency Range	47~63 Hz
	Efficiency (typ.)	85%
	AC Current (typ.)	0.7A/115VAC
	Inrush Current (typ.)	80A/230VAC cold start
	Leakage Current	0.25mA/240VAC
Protection	Over Load	110~200% rated output power recovers after fault removed
	Over Voltage	110~135% Recovers after fault removed
Environment	Operational Temp.	-10° to +50°C
	Humidity	20~90 RH non-condensing
	Storage Temperature	-20° to +85°C
	Temp. Coefficient	±0.03%/°C
	Vibration	10~500Hz, 2G
	MTBF	100,000 hrs. (min.)
Other	Dimensions (LWH)	81 x 43 x 40.5mm
	Weight	5.35 oz. (151.5 gm)
	Positive Voltage Wire	Marked with light-grey dashed lines