



50W Universal Input Adapter PSA-50U Single Output Switching Power Supply



Features

- Low Cost
- Class B EMI
- No Load Power Consumption <1 Watt
- Power On LED
- Low Profile Design

Applications

- Portable Equipment
- Peripherals
- Networking
- Gaming Machines

Safety Compliance

- cUL 60950 3rd Edition
- CE
- TUV EN60950

Mechanical Characteristics

Dimensions: • Length: 125.5±0.1mm (4.94in) • Height: 37.5±0.1mm (1.48in)
• Width: 62.4±0.1mm (2.46in) • Weight: 0.35Kgs (0.77lbs)

Output Specifications

Model	DC Output Voltage	Load		Ripple and Noise (1)	Regulation	
		Min.	Max.		Line	Load
PSA-50U-120(S)	+12V	0A	4.2A	120mV p-p	±2%	±5%

(1) Measured by using a 12 inch twisted pair terminated with a 10µf capacitor and a 0.1µf ceramic in parallel.

INPUT

AC Input Voltage Rating

100-240VAC

AC Input Voltage Range

90-264VAC

AC Input Frequency

47 to 63Hz

Input Current

1.5A(rms) 120VAC at max. Load

0.75A(rms) 240VAC at max. Load

Leakage Current

3.5mA max. for 254VAC/50Hz

Max. In-rush Current

40A for 120VAC at max. Load

80A for 240VAC at max. Load

(Cold Start @ ambient 25°C)

OUTPUT

Efficiency

78% typ. @120VAC, 60Hz and max. Load

Hold-up Time

16m Sec. min. @120VAC, 60Hz and max. Load

Overvoltage Protection

16V max. @ min.Load

Overcurrent Protection

Output Equipment with Short Circuit Protection - Auto Restart

ENVIRONMENTAL

Humidity

Operation 5-80%

Temperature

Operation 0 to +40°C

Non-Operation -20°C to +70°C

EMI

EN 55022 Class B

FCC Class B

Immunity

EN61000 4-2: Air Level 3
Contact Level 2

EN61000 4-3: Level 2

EN61000 4-4: Level 2

EN61000 4-5: (L-G) Level 3

(L-N) Level 2

EN61000 4-6: Level 2

EN61000 4-8:

EN61000 4-11:

EN61000 3-2:

EN61000 3-3:

Dielectric Withstand (Hipot)

Primary to secondary: 3000VAC for 1 minute 10mA (without shielding board)

Primary to F.G. 1500VAC for 1 minute 10mA (with shielding board)

MTBF

50K Hrs. min. at max. Load

25°C ambient temperature

Output Connector

2.1 x 5.5 mm Center Positive Standard

Dimension Diagram Unit: mm (inch)

