

FEATURES

- 80W switching power supply
- 85VAC - 264VAC continuous input
- Input frequency: 47Hz to 63Hz
- Fused input line
- Triple output voltage:
 - +5 VDC @ 12A
 - +12 VDC @ 3A
 - +12 VDC @ 1A
 - 12 VDC @ 1A
- Short circuit protection on outputs
- Overvoltage protection on +5V
- Momentary push button reset switch

The PS-80W-2 is a 80 Watt universal input switching power supply for use with WinSystems' embedded single board computers (SBCs) and Panel PC2s.

It can be used both during initial prototyping and development or in the final application environment. There is enough current capacity to allow it to power hard and floppy disks drives for disk-based applications. The wide input voltage range allows its use internationally.

FUNCTIONAL CAPABILITY

80 Watt Power Supply - The PS-80W-2 uses a triple output, 80 Watt power supply. It accepts 85VAC to 264VAC, 47Hz - 63Hz single phase. Although the unit is shipped with a standard 4 foot AC power cord for the US and Canada, it offers a universal input switching design. Universal input voltage eliminates the need for an external 115/220VAC system switch thereby eliminating failures due to improper input voltage.

A lighted dual pole, single throw ON/OFF switch is located on the front panel. The system RESET switch is next to the ON/OFF switch. An in-line fuse is wired on the input side of the power supply for extra protection.

Output Loading and Protection - The PS-80W-2 requires a minimum load of 1A on +5volts to maintain regulation. The PS-80W-2 has overvoltage protection and output short circuit protection. Recovery after fault is automatic.

Operating temperature using convection cooling is from 0°C to +50°C with no derating. Its capacity is derated



linearly by 2.5% per degree Celsius above 50°C up to 70°C. Forced air cooling will extend the operational temperature range.

Mounting - The PS-80W-2 is mounted in an enclosed case and can operate on a desk or be mounted on a flat surface using the flanges on the case. The unit is 9.1" x 6.34" x 2.75".

SPECIFICATIONS

Electrical

Input Voltage:	85VAC to 264VAC continuous 47 - 63Hz, single phase
Output Voltage:	+5 VDC @ 12A +12 VDC @ 3A +12 VDC @ 1A -12 VDC @ 1A

Mechanical

Dimensions:	9.1" (D) x 6.34" (W) x 2.75" (H)
Weight:	3.1 lbs (1.406 kilogram)

Environmental

Operational Temperature: 0° to +50°C with no derating

ORDERING INFORMATION

PS-80W-2-EBC	80W power supply for EBC series
PS-80W-2-ENC-01	80W power supply for enclosures
PS-80W-2-EPX	80W power supply for EPX series
PS-80W-2-PPC2	80W power supply for Panel PC2
PS-80W-2-PPM	80W power supply for PPM series

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