

PRODUCT OVERVIEW



PWi320 INTELLIGENT POWER SUPPLY

The PWi320 Intelligent Power Supply delivers a full 300 watts of output power for communications, control or a wide variety of other devices. It is fully Digital Signal Processor controlled and feature Universal Input Voltage from 85 to 265 VAC at 50 or 60 Hz with Active Power Factor Correction for the most efficient use of AC power.

The Power Supply is preset to the same voltage as a fully charged battery of the nominal output voltage (ie. 13.6V for a 12V model, etc.). The voltage can be adjusted over a reasonable range using the front panel controls, or the PowerWizard software.

Seven dual color LEDs clearly indicate output current levels as well as indicating faults with the Power Supply. Safety features include Power Supply over temperature shutdown, current limiting, short circuit protection, input under voltage shutdown and output overvoltage protection all with automatic recovery.

Available models

12V	24V	28V	32V	36V	48V
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Applications



TECHNICAL SPECIFICATIONS

INPUT

Volts	85 - 265 VAC, 1 Phase, 45 - 65 Hz
Current (max) *	4 Amps with inrush protection
Input Fuse	AGC 5 Amp
Power Factor	>0.99 at full load
Efficiency	>90% at full load

* Maximum Input Current Specified at 105 VAC, output power derated below 105 VAC

OUTPUT

Nominal Voltage	12 VDC	24 VDC	32 VDC	36 VDC	48 VDC
VDC Range **	12.0-14	24.0- 28.0	32.0- 37.3	36.0-4	48.0-56
Output Amps Cont/Peak	20 / 25	10 / 12.5	8.0 / 9.6	7.5 / 9.4	5 / 6.25

** Actual Output Voltage determined by User Settings or by Charger Firmware

MECHANICAL

Dimensions	9.5 in / 24.1 cm Long x 8.2 in / 20.3 cm Wide x 3.25 in / 8.3 cm High
Clearance	1.0 in / 2.5 cm all around
Weight	6.2 lb / 2.8 kg
Material and Finish	Marine grade black anodized aluminum with 18-8 stainless fasteners
Mounting	Wall or shelf mount
Connections	Integrated color coded terminal blocks

ENVIRONMENTAL AND SAFETY

Operating Temperature Range	-25°C to +40°C (-40°C to +55°C Optional)
Storage Temperature Range	-55°C to +85°C
Humidity	0 - 95% relative humidity (non-condensing) with standard conformal coating
Emissions	Meets FCC Part 15, Class B
Ingress Protection	IP52, dust and dripping water protected
Isolation	>1500 VDC Input-Output, Input-Case, Output-Case
Audible Noise	None
Duty Cycle	Continuous
Warranty	Five years
Safety	Built to meet ABS, CE, UL458 and CSA 22.2.107.1

OPTIONS

- Digital display of voltage and current (lengthens chassis)
- High vibration rugged duty
- Dry contact output fail relay
- Carrying handle
- Canbus / RS232 / remote control port
- PWi320MW model available with MIL connectors, extra input and output

DIMENSIONS

