

## Powerware® 3110 UPS

### Features

- ▶ Unobtrusive design
- ▶ LED indicators and audible alarms warn of power problems and low battery conditions
- ▶ User-replaceable battery
- ▶ Cold-start capability
- ▶ Data line protection
- ▶ Triple Power Warranty (US and Canada)
  - 2-Year Limited Warranty
  - 5-Year Pro-Rated Warranty
  - \$25,000 Load Protection Guarantee



### Product Snapshot

Power Rating:	250-600 VA
Voltage:	120V and 230V
Frequency:	50/60 Hz auto-sensing
Configuration:	Plug and play

Power problems such as surges and outages are the number one cause of data loss. Protect your office from the most common power problems, including spikes, surges, sags, noise, and power outages, with the Powerware 3110. Ideal for PC-based applications in the 250 VA – 600 VA range, the Powerware 3110 provides affordable protection in a sleek, well-designed unit that easily fits under the desk, or in a wall-mounted version.

The Powerware 3110 comes with 6 outlets, four uninterruptible power and surge suppression outlets, plus two surge suppression only outlets and spacing for transformer block plug-in.

Enough to protect all the critical equipment in the office. The Powerware 3110 charges the battery regardless of whether the unit is turned on or not, as long as it is plugged into a live power outlet, maximizing battery availability. The Powerware 3110's LED indicators and audible alarms warn of power problems and low battery conditions.

With the Powerware Power Management Software Suite, the Powerware 3110 features graceful shutdown to keep your data safe and your equipment free from damage, whether you're there or not.



# Powerware 3110 Specifications<sup>1</sup>

Voltage		120V				230V							
Model	PW3110 250VA	PW3110 425VA	PW3110 600VA	PW3110 250iVA	PW3110 425iVA	PW3110 600iVA							
Part Number	05147438-5501	05147440-5501	05147442-5501	05147439-5501	05147441-5501	05147443-5501							
Capacity(VA/Watt)	250/168	425/285	600/400	250/168	425/285	600/400							
Dimensions W x H x L (inches)	5.9 x 2.3 x 15.5	6.8 x 3.1 x 14.8		5.9 x 2.3 x 15.5	6.8 x 3.1 x 14.8								
(mm)	150 x 59 x 393	172 x 79 x 376		150 x 59 x 393	172 x 79 x 376								
Weight (lbs)	6.6	9.2	9.4	6.6	9.2	9.4							
(kg)	3.0	4.2	4.3	3.0	4.2	4.3							
Input Connection	NEMA 5-15P			IEC-320 C14 (10amp) recessed socket*									
Output Receptacle Quantity & Type	4 (UPS & Surge) + 2 (Surge only) NEMA 5-15R			4 (UPS & Surge) + 2 (Surge only) C13 (10 amp)									
Typical Runtime: Minutes (Full Load)	3	3	2.5	3	3	2.5							
<b>Operation</b>													
Nominal Input Voltage	120 Volts AC (maximum 160 volts)			230 Volts AC (maximum 290 volts)									
Input Voltage Range (for on-line operation)	90-152 Volts			176-272 Volts									
Operating Frequency (on line)	50/60 autosensing based on input frequency												
Nominal Output Voltage	120 V			230 V									
Overload Capacity	120% ± 10% (3 minutes on line mode, 10 seconds on battery)												
Transfer Time	6 ms typical												
On-Battery Voltage	120V rms ± 10%			230V rms ± 10%									
Operating Frequency	50/60 Hz ± 3Hz autosensing												
Output Voltage Waveform	Regulated step wave												
Output Protection	Electronically limited												
Input Protection	Circuit breaker												
Recharge Time (to 95% capacity)	8 hours maximum												
Lightning & Surge Protection	ANSI/IEEE C62.41 categories A & B, IEC61000-4-4,5												
Surge Energy Capacity	450 Joules												
Efficiency	>95% on line												
Safety Certification	UL1778, UL498, UL497A, CAN/CSA 22.2 No. 107.1			EN50091-1; CE low voltage directive									
EMI Compliance	FCC Class B			EN55022, Class B; CE EMC directive									
Communications	DB-9, Contact Closure												
Data Line Protection	fax/modem, network, telephone			fax/modem, telephone only (do not connect network equipment)									
Indicators	Online/Utility fail/Overload/Replace battery												
Audible Alarms	Utility fail/Overload/Replace battery												
<b>Environmental</b>													
Operating Temperature	0-40° (32 to 104° F)												
Storage Temperature	-15 to 50°C (5 to 122° F)												
Relative Humidity	0-95% non-condensing												
Audible Noise (normal operation)	<40 dbA												
Altitude	10,000 ft. (3,000m)												
<b>Powerware 3110 Runtimes for Typical Applications in Minutes</b>													
Load (VA)	75	110	120	160	200	250	310	360	400	450	500	550	600
250VA	18	12	11	7	4.5	3	-	-	-	-	-	-	-
425VA	43	28	26	18	14	9	5.5	4.5	4	-	-	-	-
600VA	62	39	34	24	19	15	11	9	8	7	5.5	4.5	2.5

1. Due to continuing improvement programs specifications are subject to change without notice.

\* 230V models include one jumper cord C13 and C14 type connectors.

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