



Powerware® 9 Prestige UPS



Product Snapshot

Rating: 650–6000 VA
Voltage: 200–240 Vac
Frequency: 50/60 Hz
Configuration: Modular;
rack-mount
and cabinet

The Powerware 9 Prestige is a versatile uninterruptible power system (UPS) designed to protect mission-critical applications such as hospitals, server farms, internet service providers, and manufacturing facilities. As a Series 9 UPS, the Prestige offers unparalleled online performance that protects against all nine of the most common power problems that can destroy your valuable data and computer hardware. Protecting your business from these nine power problems is the only business of the Prestige. Whether you rely on information, communications, or industrial equipment, the Prestige increases

your productivity by providing you with clean, reliable power at all times.

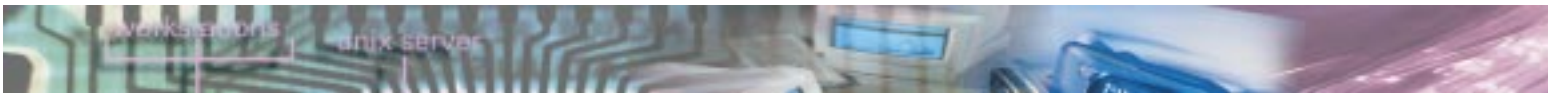
In addition to maximum protection from the nine power problems, the Prestige increases the life of your overall UPS investment by incorporating Cell Saver technology to condition power during brownouts and sags without using the UPS battery. The Prestige also offers extended battery packs for applications requiring extended run times and is bundled with LanSafe III and FailSafe III power management software to ensure data integrity.

Features

- ▶ True online design ensures continuous, clean power
- ▶ Cell Saver® technology reduces battery replacement costs
- ▶ Additional hot-swappable battery packs extend backup times
- ▶ Versatile, modular design provides easy setup and service
- ▶ FailSafe III and LanSafe III power management software included to ensure data integrity
- ▶ Automatic internal bypass adds redundant power path
- ▶ Optional PowerPass modules provide galvanic isolation and external maintenance bypass switch for easy serviceability

... because it is a tried and tested product, is well-supported by the manufacturer and has optional extras, it should receive this [Secure Computing Best Buy] award."










- Secure Computing Magazine, November 1997



Prestige Overview

True Online Design

True online systems such as the Prestige are the only type of UPSs that completely isolate your equipment from all 9 of the most common power problems:

-  Power failures
-  Brownouts
-  Sags
-  Surges
-  Overvoltage
-  Switching transients
-  Line noise
-  Frequency variations
-  Harmonic distortion

Even when presented with the most severe of these power problems, the Prestige output remains within a remarkable $\pm 3\%$ of nominal voltage, meaning that your critical system always receives clean power. In addition, the Prestige switches to battery with no break in power, making it the perfect UPS for equipment in harsh environments plagued by poor power.

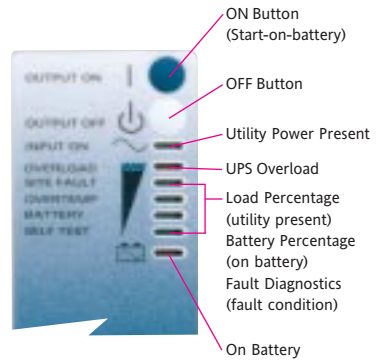
Cell Saver® Technology (CST)

Unlike most competitive UPSs, the Prestige provides conditioned power even during severe brownout conditions without depleting battery resources. The wide input voltage window of the Prestige ensures full battery power is available when you need it the most—during complete power outages.

Extended Backup Times

While standard Prestige UPS configurations will provide enough backup time for most applications, you can also add multiple hot-swappable battery packs to EXT models and models 2500 VA and above.

User Friendly Front Panel Display

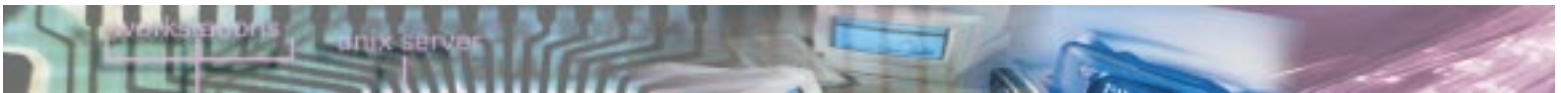


Standard Configurations



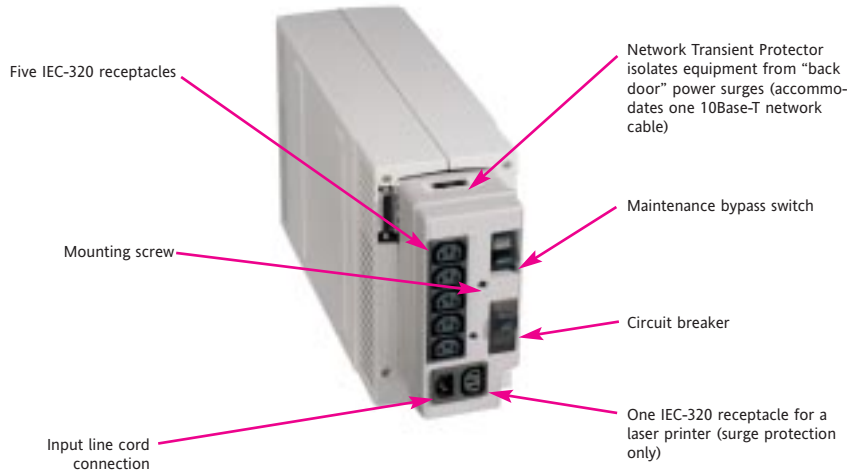
3000 VA Rack-Mount Model
The Prestige 3000VA Rack-Mount model uses only 4U (7 inches) of valuable rack space.





Options

PowerPass Module 650-1800 VA



PowerPass Module Overview (600-1800 VA)

PowerPass modules further enhance the flexibility of the Powerware 9 Prestige by providing the following:

- ▶ Maintenance Bypass Switch to perform maintenance or upgrade your UPS without powering down your critical systems
- ▶ Surge protection in the absence of the UPS electronics module during maintenance
- ▶ More output receptacles
- ▶ Increased surge protection for your load

PowerPass Isolation Module Overview (2500 & 3000 VA)

- ▶ Maintenance bypass switch to perform maintenance on UPS without powering down your critical load
- ▶ Galvanic isolation for increased protection
- ▶ (3) IEC-320 receptacles or hardwired connection

Extended Power Distribution Module (EPDM)

If the PowerPass options do not match your application, the EPDM provides further receptacle and mounting options.



Rack-Mount Kits

In addition to the 3000 VA rack-mount model, rack-mount kits are also available. The first rack-mount kit (pictured on top) is 7 inches high (4U) and fits racks with a depth of 22 to 34 inches deep (two separate kits depending on depth.) They hold single Prestige units from 600 to 1800 VA. The second kit holds 3 Prestige modules, such as the 1000 EXT model with 2 battery packs. The second kit is 10.5 inches high (6U) and fits racks with a depth of 25 to 34 inches.

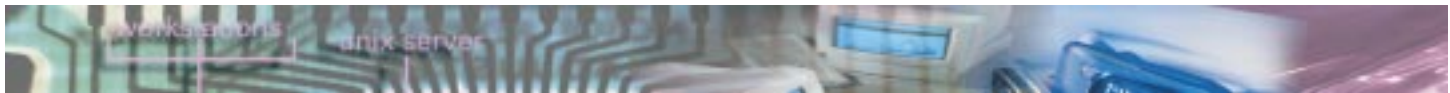
StackUPS

The modular design of the Prestige is easily housed in a rugged casing, called the StackUPS. The StackUPS is available in 4 different sizes (largest model pictured).



Castors provide for easy movement and an optional floor mounting plate secures the StackUPS for seismic zone 4.





Technical Specifications¹

ELECTRICAL

Allowable Input Range (without using batteries)	600–1800 VA: 140–276 Vac 3000 VA: 160–276 Vac 3000 VA (rack): 176–276 Vac 4500/6000: 170–276 Vac
Input Power Factor	.90 typical @ full load
Surge Protection	per EN 50082-1, tested to IEC 801-4, IEEE 587
Output Wave Form	Sine wave
Output Regulation	±3%
Output Voltage THD	600–1800 VA: <5%, 100% non-linear load 2500–6000 VA: <3%, linear load
Load Crest Ratio	3:1
Common Mode Noise Rejection	>60 dB
Transverse Mode Noise Rejection	>80 dB

BATTERY

Battery Type	Sealed, lead-acid; maintenance free
Recharge Time	600–1800 VA: 8 hours to 80% capacity 3000–6000 VA: 6 hours to 90% capacity 3000 VA (rack): 4 hours to 90% capacity (2 battery trays)
Diagnostics	Automatic online test without exposing the load
Optional Battery Pack Weight (cabinet models)	Full pack: 52 lb/23.6 kg Half pack (800–1800 EXT only): 29.5 lb/13.4 kg
Optional Battery Pack Dimensions (cabinet models; H x W x D)	5.6 x 9.9 x 15.8 inches/14.3 x 25.2 x 40.0 cm

GENERAL

Architecture	True online, double-conversion, powerline isolated
User Interface	5 segment LED display with meters and alarms
Operation	Fully automatic, touch-pad control
Diagnostics	Full system self-test on power up
UPS Bypass	Automatic on overload or UPS failure
Replacement Electronics (cabinet models)	600–1800 VA: Hot-swappable via PowerPass maintenance bypass module

Battery Service	Hot-swappable, external battery packs. 3000 VA rack: hot pluggable battery trays (2 trays standard with unit)
Communications	RS-232, LAN contacts, AS/400, Novell, 3 COM
Networks	Connectivity via Ethernet & Token Ring SNMP Adapter
Safety	UL 1778, CSA-C22.2 No. 107.1; CE certification

ENVIRONMENTAL

Audible Noise	600–1800 VA: 45 dBA @ 1 meter 3000–6000 VA: 50 dBA @ 1 meter
Ambient Operating Temperature	10 to 40°C (50 to 104°F)
Ambient Storage Temperature	-20 to 60°C (-4 to 140°F)
Relative Humidity	5–95% non-condensing
EMI Suppression	600–1800 VA: EN50081-1 & EN50082-1 3000–6000 VA: FCC Part 15, sub part J Class A; CISPR Class A

Packaging No CFCs, recyclable

POWERPASS: 600 TO 1800 VA MODEL²

Input/Output Frequency	50/60 Hz
Input/Output Current	10 amp maximum (when not connected to UPS)
Surge Protection	IEEE 801-4
ESD Protection	Withstands 25 kV
Safety	IEC 950, EN 50091-1

1. For additional specifications, see the Model Selection Guide. Specifications are subject to change without notice. 2. For 50 Hz PowerPass Isolation Module specifications, see PowerPass 6000.

ConnectUPS SNMP Adapter

The ConnectUPS is ideal for managing Prestige UPSs protecting network devices not running a commercial operating system.



ConnectUPS attaches to the communication port of the Prestige

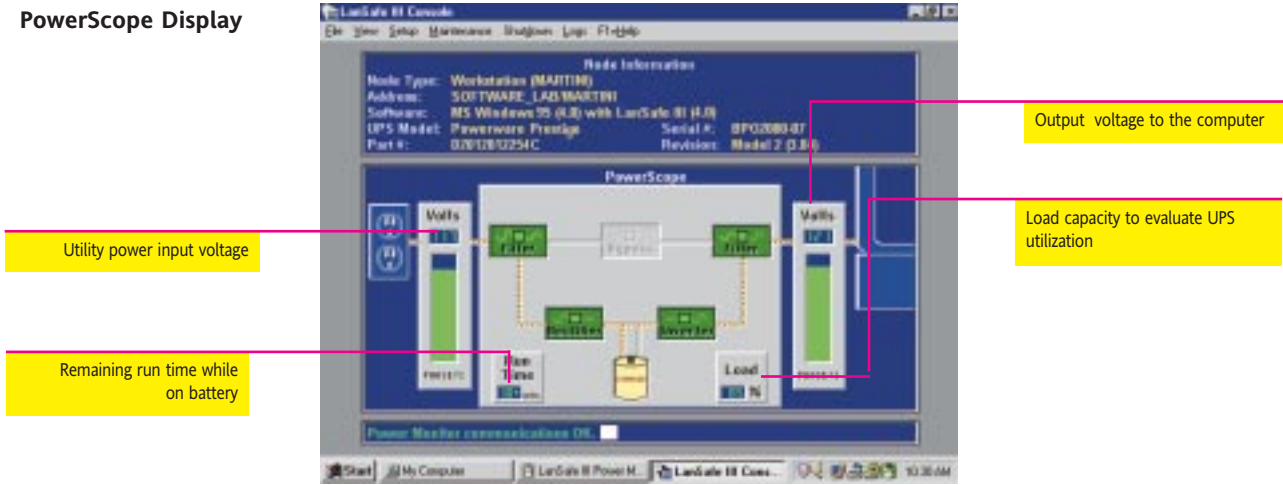




Power Management Software

To ensure data integrity, Powerware's LanSafe III and FailSafe III power management software is bundled with all Prestige models. During extended power failures, LanSafe III's exclusive SafetyNet™ enables administrators to establish a user-defined, sequential shutdown where the most critical equipment (such as database or file servers) is shut down last, after work-in-progress is saved from client workstations through hubs, switches, routers, and comm servers.

PowerScope Display



LANSAFE III AND FAILSAFE III AT A GLANCE...

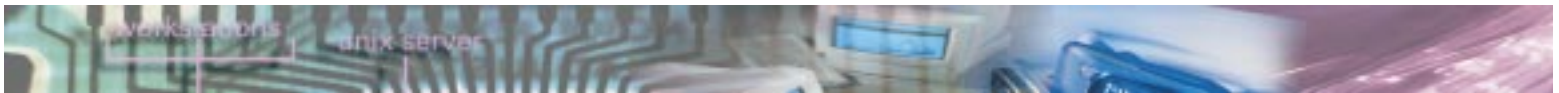
FEATURE	BENEFIT
SAFETYNET NETWORK-WIDE SHUTDOWN	
Prioritized sequential shutdown of all network devices	Ensures that all network transactions are completed prior to user-defined shutdown
Work-in-progress is saved	Preserves data integrity in multi-tasking environments throughout the network
Power loss warnings	Receive instantaneous information on adverse power conditions
UPS Groups: multiple network devices supported (with sequential shutdown) with a single UPS	Reduces cost per device for power protection
NETWORK MONITORING AND CONTROL	
Network-wide testing	Tests all UPSs from one network node; not limited to individually testing each UPS
Make comm port changes without rebooting	Allows for easy network expansion; no need to unload and reboot system
Cross-platform capability	Provides system-wide functionality via TCP/IP by monitoring power conditions on computers running different operating systems
SNMP Agent	Provides SNMP agents that gather UPS information and adds a UPS icon to the management map for most popular network management software packages
IBM NetFinity support	Processes alert messaging for IBM NetFinity
Remote power monitoring	Reviews real-time power conditions at any network UPS
Detailed numeric/graphical power status data displays*	Determines the overall operating environment of the computer
Remote reboot and shutdown	Performs controlled shutdown of any network node
Compatible with other manufacturers' UPSs	Provides system-wide support for all UPSs
Network silent	Eliminates performance degradation due to excess traffic
CUSTOMIZABLE ALERTS	
Personalize alert messages	Customizes the alert message text and user list to receive alerts
Pager and e-mail capabilities	Stay informed in remote locations regarding power problems by pager or e-mail
OTHER APPLICATIONS	
OnliNet Power Management Software**	Provides monitoring and control for ConnectUPS (SL) applications
SurfSafe	Provides power monitoring through common web browsers

*UNIX with graphical user interface only. **Purchased separately.

Operating Systems



- **FailSafe III Standalone Solutions**
Windows 95/98, OS/2, Windows 3.x, and Windows NT
- **LanSafe III Network Solutions**
Windows 95/98, OS/2, UNIX, Novell NetWare, and Windows NT



Model Selection Guide

MODEL ¹	INPUT VOLTAGE (VAC) ²	OUTPUT VOLTAGE (VAC)	FREQUENCY (Hz)	INPUT CONNECTION ²	OUTPUT CONNECTIONS	OUTPUT CURRENT (AMP)	DIMENSIONS HxWxD (MM)	UNIT WEIGHT (KG/LB)
650–1800 VA models								
600VA/420W	208–240	208–240	45–65	IEC–320,10 A	(3) IEC–320	2.6 ⁴	143 x 252 x 400	12.9/28.5 ⁵
800VA/560W	208–240	208–240	45–65	IEC–320,10 A	(3) IEC–320	3.5 ⁴	143 x 252 x 400	12.9/28.5 ⁵
1000VA/700W	208–240	208–240	45–65	IEC–320,10 A	(3) IEC–320	4.3 ⁴	143 x 252 x 400	12.9/28.5 ⁵
800VA/560W EXT	208–240	208–240	45–65	IEC–320,10 A	(3) IEC–320	3.5 ⁴	143 x 252 x 400	14.9/33.0 ⁵
1000VA/700W EXT	208–240	208–240	45–65	IEC–320,10 A	(3) IEC–320	4.3 ⁴	143 x 252 x 400	14.9/33.0 ⁵
1250VA/875W EXT	208–240	208–240	45–65	IEC–320,10 A	(3) IEC–320	5.4 ⁴	143 x 252 x 400	14.9/33.0 ⁵
1500VA/1050W EXT	208–240	208–240	45–65	IEC–320,10 A	(3) IEC–320	6.5 ⁴	143 x 252 x 400	14.9/33.0 ⁵
1800VA/1200W EXT	208–240	208–240	45–65	IEC–320,16 A	(3) IEC–320	7.8 ⁴	143 x 252 x 400	14.9/33.0 ⁵
2500–6000 VA models								
2500VA/1750W	200–240	200–240	45–65	IEC-320, 16 A	(1) IEC-320, 16 A ⁶	10.4 ⁷	286 x 252 x 400 ⁸	31.1/68.5 ⁹
3000VA/2100W	200–240	200–240	45–65	IEC-320, 16 A	(1) IEC-320, 16 A ⁶	12.5 ⁷	286 x 252 x 400 ⁸	31.1/68.5 ⁹
3000VA/2100W(rack)	200–240	200–240	45–65	IEC-320, 16 A	(2) IEC-320, 10 & 16A	12.5 ⁷	177 x 432 x 610	54.5/122.0
4500VA/3000W	200–240	200–240	45–65	L6-30P or Hardwired	L6-30P or Hardwired	19.0 ⁷	570 x 252 x 400 ⁹	64.2/143.0 ⁹
6000VA/4000W	200–240	200–240	45–65	L6-30P or Hardwired	L6-30P or Hardwired	25.0 ⁷	570 x 252 x 400 ⁹	64.2/143.0 ⁹

1. EXT models and 2500–6000VA models accommodate additional battery packs. 2. 200 (models above 1800 VA only), 208, 220, 230, and 240 Vac, nominal voltage. 3. Includes 6-foot (2 meter) detachable line cord with region-specific plug, except hardwired models. 4. Based on 230 Vac. 5. With standard, internal battery. 6. Or optional output strip with (6) IEC, British, Schuko (European), French, or Australian receptacles. 7. Based on 240 Vac. 8. With UPS electronics and battery pack stacked. 9. With UPS electronics and two standard battery packs stacked.

BACKUP TIMES¹

600–1800 VA MODELS (BACKUP TIME WITH ONE ADDITIONAL, FULL BATTERY PACK LISTED IN PARENTHESES)²

LOAD ³	MODEL: 600	800	1000	800 EXT	1000 EXT	1250 EXT	1500 EXT	1800 EXT
200VA/140W	33	33	33	56 (203)	56 (203)	56 (203)	59 (194)	59 (194)
400VA/280W	21	21	21	29 (117)	29 (117)	29 (117)	29 (107)	29 (107)
600VA/420W	11	11	11	19 (76)	19 (76)	19 (76)	19 (71)	19 (71)
800VA/560W		7	7	13 (55)	13 (55)	13 (55)	14 (52)	14 (52)
1000VA/700W			6		10 (42)	10 (42)	11 (41)	11 (41)
1250VA/875W						8 (32)	8 (32)	8 (32)
1500VA/1050W							7 (25)	7 (25)
1800VA/1200W								5 (20)

2500 & 3000 VA, 230V MODELS

LOAD ³	1 PACK ⁴	2 PACKS	3 PACKS
400VA/280W	36.8	88	146
800VA/560W	27.6	66	110
1200VA/840W	18.4	44	73
1600VA/1100W	13.6	33	54
2000VA/1400W	10.7	26	42
2500VA/1750W	8.3	20	33
3000VA/2100W	6.5	16	27

4500 & 6000 VA MODELS

LOAD ³	2 PACKS ⁵	3 PACKS	4 PACKS	5 PACKS	6 PACKS
1500VA/1000W	30	44	58	72	87
3000VA/2000W	14	24	32	39	47
4500VA/3000W	7	14	22	27	32
6000VA/4000W	5	9	14	21	25

300 VA RACK-MOUNT

LOAD	TWO BATTERY TRAYS ⁶
400VA/280W	72
800VA/560W	36
1200VA/840W	23
1600VA/1100W	16
2000VA/1400W	12
2500VA/1750W	8
3000VA/2100W	6.5

1. Backup times are approximate and listed in minutes. Times may vary with equipment, configuration, disk access, battery age, temperature, etc. The Extended Battery with Charger Unit (EBCU) can provide up to 8 hours of backup time. See separate product literature. Specifications subject to change without notice. 2. For additional backup time charts for applications requiring up to 4 additional battery packs, see the Powerware web page: www.powerware.com 3. VA at 0.7 pf. 4. One battery pack minimum; 3 battery packs maximum. 5. Two battery packs minimum; 6 battery packs maximum. 6. Two battery trays included in standard configuration.

Powerware Corporation
Corporate Headquarters
 8609 Six Forks Road
 Raleigh, NC 27615 U.S.A.
 Toll Free: 1.877.797.9273 (PWR-WARE)
 or 919.872.3020
 Fax: 1.800.753.9433
 or 919.870.3411
 E-mail: info@powerware.com
www.powerware.com

Europe/Middle East/Africa
 Berkshire, England: 44.1753.608700

Southeast Asia
 Singapore: 65.8610377

China and North Asia
 Hong Kong: 852.2745.6682

Japan
 Shinagawa Tokyo: 813.3447.5251

Australia and South Pacific
 Sydney, Australia: 61.2.9878.5000

Canada
 Toronto, Ontario: 416.798.0112

