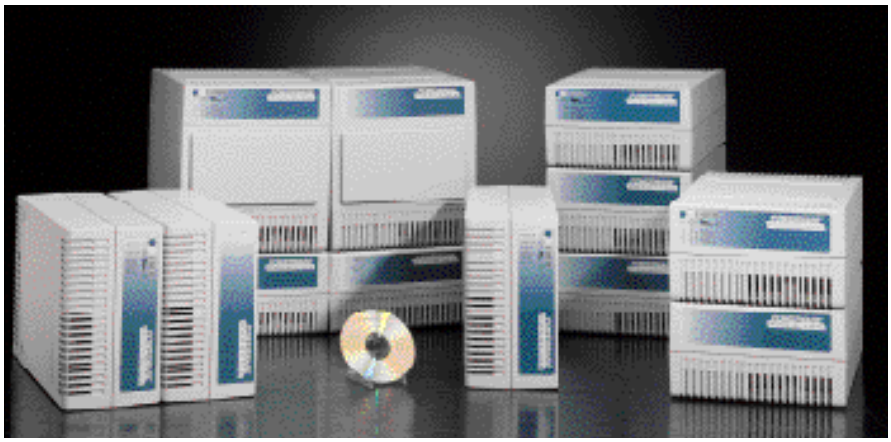
Powerware ® 9 Prestige UPS



Product Snapshot

Rating:	650-6000 VA
Input Voltage:	120 Vac; 200–240 Vac
Output Voltage:	120 Vac; 120/208 120/240 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

Exclusive Triple Power Warranty
(U.S. and Canada)

- 10-Year Pro-Rated Warranty
- 60-Day Money Back Guarantee
- $25,000 Load Protection Guarantee

. . . 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

POWERWARE
POWERING THE WORLD

An Invensys company

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
- High voltage spikes
- 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 ±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.

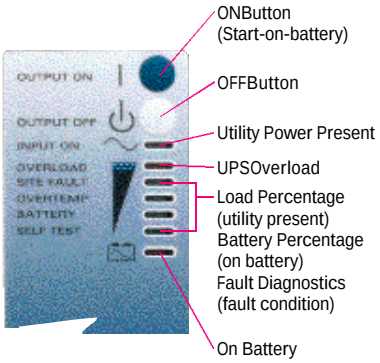
Cell Saver® Technology (CST)

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.

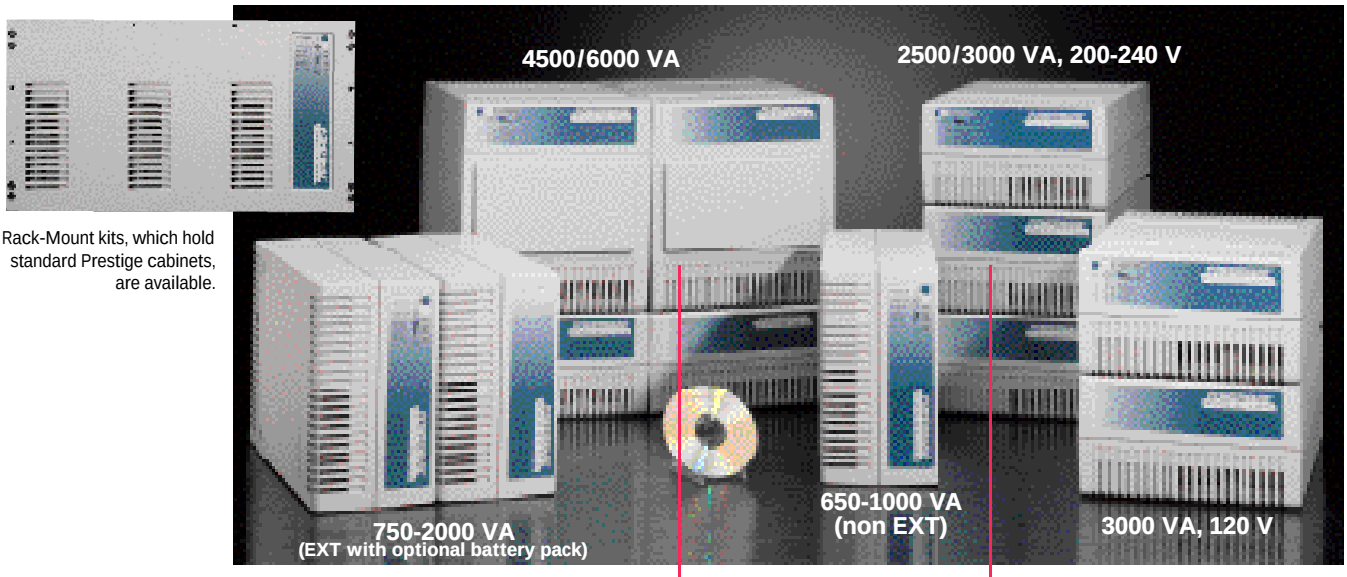
Extended Backup Times

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

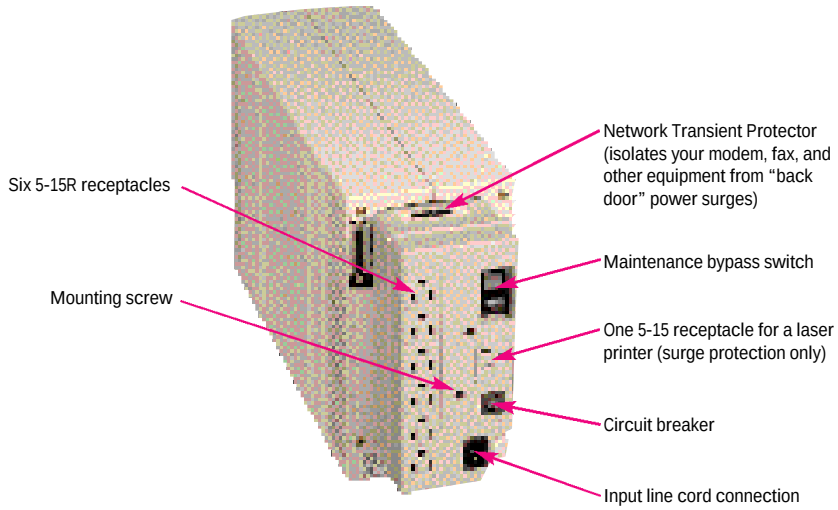


Rack-Mount kits, which hold standard Prestige cabinets, are available.

With 200-240V input, PowerPass modules provide 120/208, 120/240, or 120V output

PowerPass Selection Guide

PowerPass Module
650-1500 VA



PowerPass Module Overview

Optional PowerPass modules further enhance the reliability 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
- Various receptacle or hardwired configurations (see the table below)
- Increased surge protection for your load
- Galvanic isolation for increased protection (see the table below)
- 120, 120/208, or 120/240 Vac output (see the table below)

Part Number	Input Voltage (Vac)	Output Voltage (Vac)	Galvanic Isolation	Output Connections[2]	Dimensions H x W x D (inches)	Unit Weight (lb/kg)
650—1500 VA Model						
124100002-001	120	120	No	(7) 5-15R[1]	8.24 x 3.76 x 3.1	3.3/1.5
2000 VA Model						
101615232-001	120	120	No	(4) 5-15R & (1) 5-20R	5.61 x 9.91 x 15.75	5.0/2.3
3000 VA Models (120V input)						
101615264-001	120	120	No	(2) 5-15R & (1) L5-30R	5.61 x 9.91 x 15.75	16.5/7.5
101615264-002	120	120	No	(2) 5-20R & (1) L5-30R	5.61 x 9.91 x 15.75	16.5/7.5
101615263-001	120	120	No	Hardwired	5.61 x 9.91 x 15.75	16.5/7.5
2500/3000 VA Models (208—240V input)						
101614914-001	208	120/208	Yes	(4) 5-15R & (1) L6-30R	5.61 x 9.91 x 15.75	47.0/21.4
101614914-002	200/220/230/240	120/240	Yes	(4) 5-15R & (1) L14-30R	5.61 x 9.91 x 15.75	47.0/21.4
101614914-003	208	120	Yes	(4) 5-15R & (1) L5-30R	5.61 x 9.91 x 15.75	47.0/21.4
101614914-004	200/220/230/240	120	Yes	(4) 5-15R & (1) L5-30R	5.61 x 9.91 x 15.75	47.0/21.4
101614914-005	208	120/208	Yes	(4) 5-15R & (1) L6-20R	5.61 x 9.91 x 15.75	47.0/21.4
101614914-006	200/220/230/240	120/240	Yes	(4) 5-15R & (1) L6-30R	5.61 x 9.91 x 15.75	47.0/21.4
101614914-007	208	120/240	Yes	(4) 5-15R & (1) L14-30R	5.61 x 9.91 x 15.75	47.0/21.4
101614914-008	200/220/230/240	120/240	Yes	(4) 5-15R & (1) L6-20R	5.61 x 9.91 x 15.75	47.0/21.4
101615189-002	208	120/208	Yes	Hardwired	5.61 x 9.91 x 15.75	47.0/21.4
101615189-003	200/220/230/240	120/240	Yes	Hardwired	5.61 x 9.91 x 15.75	47.0/21.4
4500/6000 VA Models						
101711106-001	208	120	Yes	(8) 5-15R & (2) L5-30R	10.0 x 11.1 x 15.75	82.0/37.0
101711106-002	208	120/208	Yes	(8) 5-15R & (2) L6-20R	10.0 x 11.1 x 15.75	82.0/37.0
101711106-003	208	120/208	Yes	(8) 5-15R & (2) L6-30R	10.0 x 11.1 x 15.75	82.0/37.0
101711106-004	208	120	Yes	(8) 5-15R & (2) L14-30R	10.0 x 11.1 x 15.75	82.0/37.0
101711106-005	200/220/230/240	120	Yes	(8) 5-15R & (2) L5-30R	10.0 x 11.1 x 15.75	82.0/37.0
101711106-006	200/220/230/240	120/240	Yes	(8) 5-15R & (2) L6-20R	10.0 x 11.1 x 15.75	82.0/37.0
101711106-007	200/220/230/240	120/240	Yes	(8) 5-15R & (2) L6-30R	10.0 x 11.1 x 15.75	82.0/37.0
101711106-008	200/220/230/240	120/240	Yes	(8) 5-15R & (2) L14-30R	10.0 x 11.1 x 15.75	82.0/37.0
101711105-001	208	120/208	Yes	Hardwired	10.0 x 11.1 x 15.75	82.0/37.0
101711105-002	240	120/240	Yes	Hardwired	10.0 x 11.1 x 15.75	82.0/37.0

1. Includes one receptacle for laser printers which supplies surge protection only. 2. Input connection is identical to the one located on the electronics module; see the Model Selection Guide.

Technical Specifications[1]

Electrical

Allowable Input Voltage Range	650–2000 VA: 85–144 Vac (full load); 75–144 (half load); 3000 VA, 120V: 90–144 Vac 3000 VA, 230V: 160–276 Vac 4500/6000 VA: 170–276 Vac
Input Power Factor	650–2000 VA: .95 typical @ full load 3000–6000 VA: .90 typical @ full load
Surge Protection	120 volt input models: Tested to IEEE 587/ANSI C62.41 Categories A & B 230 volt input models: per EN 50082-1, meets IEC 801-4, IEEE 587
Output Wave Form	Sine wave
Output Regulation	±3%
Output Voltage THD	650–2000 VA: <5%, 100% non-linear load 3000–6000 VA: <3%, linear load
Load Crest Ratio	3:1
Common Mode Noise Rejection	>60 dB
Transverse Mode Noise Rejection	>80 dB

Optional Battery Pack Weight	Full pack: 52 lb/23.6 kg Half pack (1000–2000 EXT models only): 29.5 lb/13.4 kg
Optional Battery Pack Dimensions	(H x W x D) 5.6 x 9.9 x 15.8 inches/14.3 x 25.2 x 40.0 cm

Battery Type	Sealed, lead-acid; maintenance free
Recharge Time	650–2000 VA: 4 hours to 80% capacity 3000–6000 VA: 6 hours to 90% capacity
Diagnostics	Automatic online test without exposing the load

General

Architecture	True online, double-conversion, powerline isolated
Diagnostics	Full system self-test on power up
UPS Bypass	Automatic on overload or UPS failure
Replacement Modules	Hot-swappable external battery packs and electronics via PowerPass maintenance bypass module
Communications	RS-232, LAN contacts, AS/400, Novell, 3 COM
Networks	Connectivity via Ethernet & Token Ring SNMP Adapter
Safety	All models: UL 1778, CSA-C22.2 No. 107.1 EN 50091-1 for all models except 3000 VA, 120V 4500/6000 VA: also EN 60950

Environmental

Audible Noise	650–2000 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	All models: FCC Part 15, Subpart J, Class A; Class B available on selected models ≤ 2kVA; 230 volt input models also CISPR Class A
Packaging	No CFCs, recyclable

PowerPass: 650 to 1500 VA Model[2]

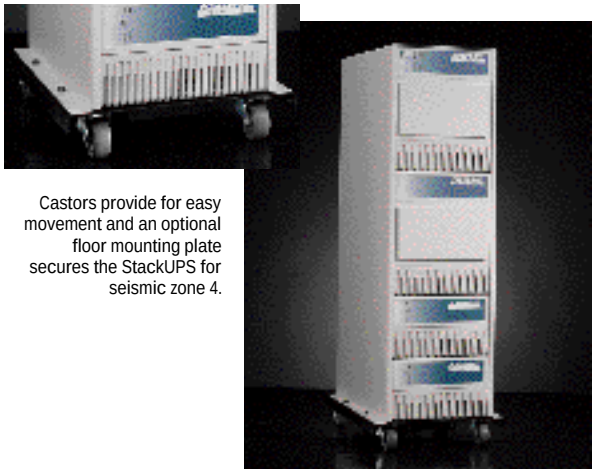
Input/Output Frequency	50/60 Hz
Input/Output Current	15 amp maximum (when not connected to UPS)
Surge Protection	IEEE 587, UL 1449
ESD Protection	Withstands 25 kV
Safety	UL 1778, CSA C22.2

1. For additional specifications, see the Model Selection Guide. Specifications are subject to change without notice. 2. For 3000–6000 VA models, see PowerPass Primer 3000 and PowerPass Primer 6000.

Options

StackUPS

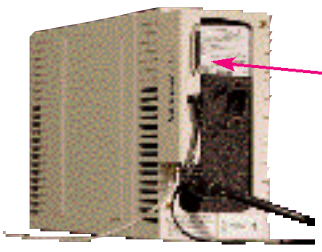
The modular design of the Prestige is easily housed in a rugged casing, called the StackUPS. The StackUPS is available in 4 different sizes (largest model pictured).



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

Extended Power Distribution Module (EPDM)

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



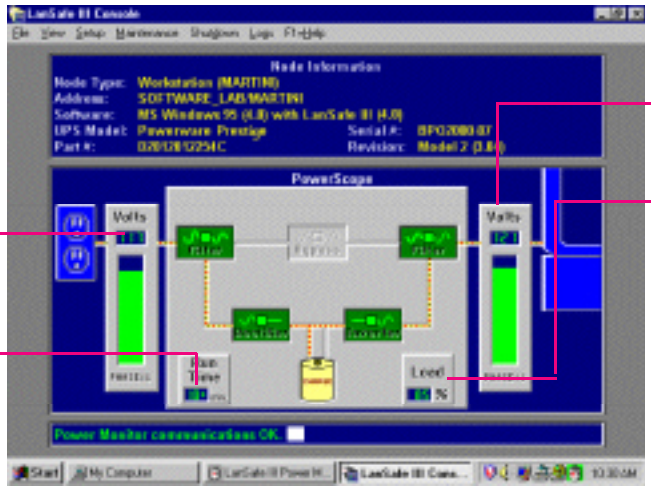
ConnectUPS SNMP Adapter

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

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
SNMPAgent	Provides SNMP agents that gather UPS information and add a UPS icon to the management map for most popular network management software packages
IBMNetFinity support	Processes alert messaging for IBMNetFinity
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)	Output Voltage (Vac)	Frequency (Hz)	Input Connection[2]	Output Connections	Max. Output Current	Dimensions HxWxD (inches)	Unit Weight (lb/kg)
650—3000 VA models								
650VA/445W	120	120	45–65	5-15P	(4) 5-15R	5.4	5.6 x 9.9 x 15.8	28.5/12.9[3]
800VA/560W	120	120	45–65	5-15P	(4) 5-15R	6.7	5.6 x 9.9 x 15.8	28.5/12.9[3]
1000VA/700W	120	120	45–65	5-15P	(4) 5-15R	8.3	5.6 x 9.9 x 15.8	28.5/12.9[3]
750VA/525W EXT	120	120	45–65	5-15P	(4) 5-15R	6.3	5.6 x 9.9 x 15.8	28.5/12.9[3]
1000VA/700W EXT	120	120	45–65	5-15P	(4) 5-15R	8.3	5.6 x 9.9 x 15.8	33.0/14.9[3]
1250VA/875W EXT	120	120	45–65	5-15P	(4) 5-15R	10.4	5.6 x 9.9 x 15.8	33.0/14.9[3]
1500VA/1050W EXT	120	120	45–65	5-15P	(4) 5-15R	12.5	5.6 x 9.9 x 15.8	33.0/14.9[3]
2000VA/1300W EXT	120	120	45–65	5-20P	(4) 5-15R & (1) 5-20R	16.0	5.6 x 9.9 x 15.8	33.0/14.9[3]
3000VA/2100W	120	120	45–65	L5-30P	(1) 5-15R & (1) L5-30R	25.0	11.2 x 9.9 x 15.8[4]	68.5/31.1[4]
2500—6000 VA models with PowerPass module								
2500VA/1750W	200–240[5]	120/208, 120/240	45–65	IEC-320, 16 A	See PowerPass Selection Guide	10.4[6]	16.8 x 9.9 x 15.8[7]	115.5/52.5[7]
3000VA/2000W	200–240[5]	120/208, 120/240	45–65	IEC-320, 16 A	See PowerPass Selection Guide	12.5[6]	16.8 x 9.9 x 15.8[7]	115.5/52.5[7]
4500VA/3000W[6]	200–240[5]	120/240, 120/208	45–65	L6-30P or Hardwired	See PowerPass Selection Guide	19.0[6]	33.6 x 9.9 x 15.8[8]	218.0/98.9[8]
6000VA/4000W[6]	200–240[5]	120/240, 120/208	45–65	L6-30P or Hardwired	See PowerPass Selection Guide	25.0[6]	33.6 x 9.9 x 15.8[8]	218.0/98.9[8]

1. EXT and 2500–6000 VA models accommodate additional battery packs. 2. Includes 6-foot (2 meter) detachable line cord. 3. With standard, internal battery. 4. With UPS electronics and one battery pack stacked. 5. 200, 208, 220, 230, or 240 Vac. 6. Based on 240 Vac. 7. With UPS electronics, battery pack, and PowerPass stacked. 8. With UPS electronics, two standard battery packs, and PowerPass stacked.

Backup Times[1]

650–2000 VA Models (Backup time with one additional, full battery pack listed in parentheses)[2]

Load[3]	Model: 650	800	1000	750 EXT	1000 EXT	1250 EXT	1500 EXT	2000 EXT
200VA/140W	37	37	37	68 (216)	68 (216)	68 (216)	68 (216)	72 (228)
400VA/280W	22	22	22	32 (115)	32 (115)	32 (115)	32 (115)	34 (122)
600VA/420W	12	12	12	20 (73)	20 (73)	20 (73)	20 (73)	22 (78)
800VA/560W		8	8	15 (56) [4]	14 (56)	14 (56)	14 (56)	15 (56)
1000VA/700W			6		11 (39)	11 (39)	11 (39)	12 (43)
1250VA/875W						8 (30)	8 (30)	9 (32)
1500VA/1050W							6 (23)	7 (25)
2000VA/1300W								5 (17)

2500 & 3000 VA, 230 V Models

Load[3]	1 Pack[5]	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

3000 VA, 120 V Model

Load[3]	1 Pack[5]	2 Packs	3 Packs
400VA/280W	72	150	227
800VA/560W	36	79	122
1200VA/840W	23	53	82
1600VA/1100W	16	38	61
2000VA/1400W	12	30	48
2500VA/1750W	8	23	37
3000VA/2100W	6.5	17	29

4500 & 6000 VA Models

Load[3]	2 Packs[6]	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

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. 750 VA, 525W. 5. One battery pack is standard; 3 battery packs maximum. 6. At least two battery packs are required; 6 battery packs maximum.

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Revision PTG13XA 9/99
Reprint RTP 9/99