



# Powerware

## Powerware® 9125 Uninterruptible Power System

Product Focus

700-6000 VA



Powerware 9125 6000 VA

### Features

- Protects mission-critical applications from downtime, data loss and corruption, and process interruption by providing continuous, clean power
- Secures connected equipment from damage or degradation caused by power anomalies
- Increases battery life through ABM® technology, resulting in more uptime and fewer battery replacements
- Offers load segments (on 700-3000 VA units) that enable orderly shutdown of non-essential equipment during power outages to extend backup power time for critical systems
- Delivers deployment flexibility while conserving valuable rack space, by offering rackmount or tower installation choices
- Ensures data and system integrity with a complete power management software suite
- Provides investment protection with a two-year limited warranty, 10-year pro-rated warranty, \$250,000 load protection guarantee (US and Canada)

### Product Snapshot

**Power Rating:** 700-6000 VA  
**Voltage:** 120, 208 and 230 Vac  
**Frequency:** 50/60 Hz (auto-sensing)  
**Configuration:** Rackmount or tower

When your work depends on constant availability, the potential dangers of utility power simply cannot factor into the equation. In your business, mission-critical means just that, and downtime equals "dead time." Where can you turn for a power quality solution that is just as dedicated as you are? Enter the Powerware 9125 UPS, designed by Eaton to alter the face of power management forever.

Combining superior power quality with a cache of innovative features, the Powerware 9125 UPS delivers the ultimate in protection, truly isolating your equipment from all nine of the common power anomalies lurking in public utility power.

Available as either a rackmount or stand-alone unit, the compact and elegant 9125 supplies continuous, conditioned power to all connected equipment, delivering large-scale power protection in a sleek package small enough to fit beneath your desk.

The ideal solution for banking and security systems, manufacturing process control, heavily configured servers, or any critical application, the Powerware 9125 makes power-related downtime a thing of the past. We invite you to read on, and discover more of what has made the Powerware 9125 UPS an industry legend.

### Double-conversion, online design offers superior reliability and protection

The Powerware 9125 is a double-conversion online UPS, which means it is constantly conditioning and controlling AC output during normal operating conditions.

Unlike other

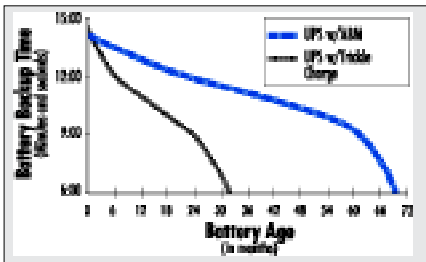


Powerware 9125 3000 VA

commercially-available technologies, a double-conversion online design assures that in the event of a utility power failure, there is zero delay transferring to backup power.

The double-conversion architecture incorporates both a rectifier and inverter to completely isolate the output power from all input anomalies. Only a true online system such as the Powerware 9125 protects connected equipment from all nine of the most common power problems: outages, sags, surges, spikes, brownouts, line noise, frequency variation, switching transients, and harmonic distortion.

Even when presented with the most severe power problems, power output remains stable, within three percent of nominal voltage. The Powerware 9125 supports a wide range of input voltages, so it is not consuming battery capacity during minor power fluctuations.



Data based on tests performed by an independent battery manufacturer.

Battery capacity is saved for times when utility power is completely lost. If an outage occurs, the Powerware 9125 transfers to battery with no break in power, making it an ideal UPS for equipment sensitive to voltage fluctuations.

### Double battery life with ABM technology

Most UPS manufacturers in the market today offer batteries that are constantly “trickle-charged” — a process that degrades the battery’s internal chemical composition, reducing potential battery service life by as much as 50 percent. In contrast, our exclusive ABM technology uses sophisticated sensing circuitry and an innovative three-stage charging technique that doubles the useful service life of UPS batteries while optimizing battery recharge time. The Powerware 9125 provides up to 60 days’ notice of the end of useful battery service life, to allow ample time to hot-swap batteries without ever having to shut down connected equipment.

### Maximize battery backup time for critical systems

LanSafe® power management software enables independent control of load segments, which are groups of receptacles on the rear panel of the Powerware 9125 UPS (700-3000 VA). This feature allows

users to manage scheduled shut-downs and sequential startups of protected loads. During a power outage, users can shut down power to non-critical devices, thereby extending battery backup time available for critical devices. When the load segments feature is used with Powerware



Powerware 9125 6000 VA with 2 EBMs

ConnectUPS connectivity cards, users can remotely re-boot locked-up network equipment. Simply link to the ConnectUPS connectivity card over the network, and toggle the password-protected load segment controller to get your network back online.

### Add battery modules for even more backup capacity

Up to four Extended Battery Modules (EBMs) can be added to provide additional battery backup capacity as necessary. These battery modules are hot-swappable and can be replaced at any time without interrupting UPS operation and load protection.



Battery Runtimes (in minutes)

| LOAD                       | STANDARD INTERNAL BATTERIES | 1 EBM | 2 EBMS | 3 EBMS | 4 EBMS |
|----------------------------|-----------------------------|-------|--------|--------|--------|
| <b>700/1000 VA Models</b>  |                             |       |        |        |        |
| 200 VA/140W                | 37                          | 271   | 546    | -      | -      |
| 400 VA/280W                | 19                          | 142   | 278    | -      | -      |
| 700 VA/490W                | 9                           | 72    | 156    | -      | -      |
| 850 VA/595W                | 6                           | 59    | 124    | -      | -      |
| 1250 VA/875W               | 11                          | 46    | 87     | -      | -      |
| 1000 VA/700W               | 5                           | 48    | 104    | -      | -      |
| <b>1250-2000 VA Models</b> |                             |       |        |        |        |
| 400 VA / 280W              | 46                          | 177   | 331    | 501    | 682    |
| 700 VA/490W                | 25                          | 96    | 180    | 272    | 370    |
| 850 VA/595W                | 21                          | 76    | 142    | 214    | 292    |
| 1000 VA/700W               | 16                          | 61    | 115    | 174    | 237    |
| 1250 VA/875W               | 11                          | 46    | 87     | 131    | 179    |
| 1500 VA/1050W              | 8                           | 37    | 70     | 106    | 144    |
| 1800 VA/1260W              | 6                           | 30    | 57     | 85     | 116    |
| 2000 VA/1400W              | 5                           | 26    | 49     | 74     | 100    |
| <b>2500/3000 VA Models</b> |                             |       |        |        |        |
| 1250 VA/875W               | 16                          | 57    | 90     | 150    | 200    |
| 2500 VA/1750W              | 7                           | 28    | 48     | 68     | 88     |
| 1500 VA/1050W              | 13                          | 55    | 72     | 120    | 160    |
| 3000 VA/2100W              | 5                           | 25    | 38     | 54     | 70     |
| <b>5000/6000 VA Models</b> |                             |       |        |        |        |
| 1000 VA / 700W             | 64                          | 179   | 308    | 448    | -      |
| 2000 VA / 1400W            | 38                          | 108   | 186    | 271    | 362    |
| 3000 VA / 2100W            | 34                          | 70    | 122    | 178    | 237    |
| 4000 VA / 2800W            | 19                          | 49    | 86     | 125    | 168    |
| 5000 VA / 3500W            | 13                          | 37    | 65     | 96     | 128    |
| 6000 VA / 4200W            | 10                          | 30    | 52     | 76     | 102    |

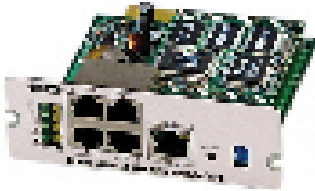
This table provides typical information. Runtimes are approximate and vary with equipment, configuration, battery age, temperature, etc.

## Design and connectivity options offer maximum flexibility

Up to 3000 VA of UPS power is packed into only two units (2U) of rack space; only five units (5U) for the 5000 and 6000 VA models. The standard chassis (available in beach gray or black) can be deployed as a tower unit or in a rack. Pedestal kits are standard with units up to 3000 VA. Optional rack kits are available for all

models. An optional seismic kit is also available for select units. Connectivity options are available to suit nearly any communication requirement. The standard unit is equipped with an RS-232 serial communications port. You can customize your UPS by adding X-Slot® interface options for other types of communications:

### ConnectUPS Web/SNMP card



Enables a direct connection to the Ethernet network and the Internet. Monitor and manage your UPS with a standard Web browser.

### Multi-server card



Provides serial connections for monitoring and graceful shutdown of up to five computer systems running various operating systems.

### Modbus card



Enables real-time monitoring of power conditions through building management systems (BMS).

### Relay card



Provides simple alarm notification via isolated contacts to signal a change of state in UPS operation (typical in IBM® eServer® iSeries applications).

## Unify the management of UPS functions and connections

The Powerware 9125 comes complete with the Powerware Software Suite CD, including SNMP-compatible LanSafe power management software to provide control and visibility over multiple UPSs. From a central vantage point, you can perform all requisite management processes for power protection, such as establishing a prioritized shutdown of network devices and client/server applications, testing all networked UPSs from one node, analyzing trends and network conditions, and staying informed of power problems via email broadcasts to mobile phones or pagers.

The Software Suite CD includes multimedia demonstrations of the various Powerware software packages that Eaton offers: LanSafe v. 5, PowerVision® software, and Foreseer® software. Additionally, a 30-day trial version of PowerVision is included on the CD for exploration.

## Service the UPS without interrupting power to downstream systems

Powerware 9125 UPS models from 700 VA to 6000 VA offer optional PowerPass® power distribution modules (PDMs) with the following capabilities:

- Maintenance bypass switch in the PowerPass module enables users to upgrade or replace the UPS while continuously providing power to critical equipment
- Step-down transformer (2500-6000 VA) enables the UPS to be connected to energy-saving 208V or 240V input voltage, while providing appropriate output voltage combinations of 120V and 208V through 240V for connected equipment
- Extra receptacles match the unique requirements of your protected equipment

Backed by a comprehensive warranty program, the Powerware 9125 delivers the most reliable, efficient, and full-featured protection available for your organization's critical electronics.

## OPTIONAL POWERPASS DISTRIBUTION MODULES (PPDMS)

| MODEL <sup>1</sup>          | PART NUMBER    | INPUT VOLTAGE (VAC) | OUTPUT VOLTAGE (VAC) | INPUT CONNECTION  | OUTPUT RECEPTACLES  | DIMENSIONS (H X W X D) | WEIGHT (LB) |
|-----------------------------|----------------|---------------------|----------------------|---|---|------------------------|-------------|
| <b>700 - 2000 VA Models</b> |                |                     |                      |   |   |                        |             |
| PPDM 700-1500 VA            | 05146519-001   | 120                 | 120                  | 6-ft, L5-15P<br>Attached power cord   | (6) 5-15R, (1) L5-15R<br>for Laser Printer Unprotected            | 3.5 x 11.0 x 4.5       | 2.5         |
| PPDM 2000 VA                | 05146520-001   | 120                 | 120                  | 6-ft, L5-20P Attached power cord  | (6) 5-15R   | 3.5 x 11.0 x 4.5       | 2.5         |
| PPDM 700-2000 VA            | 05146519-092   | 230                 | 230                  | IEC 320-C14 Input connector   | (6) IEC 320-C13, (1) IEC 320-C13<br>for Laser Printer Unprotected | 3.5 x 11.0 x 4.5       | 2.5         |
| <b>2500/3000 VA Models</b>  |                |                     |                      |   |   |                        |             |
| PPDM2-LV-US-P1              | 103002742-6501 | 120                 | 120                  | 6-ft, L5-30P<br>Attached power cord   | (6) 5-20R, (1) L5-30R   | 3.0 x 17.0 x 23.9      | 20          |
| PPDM1-HV-US-P1              | 103002739-6501 | 208-240             | 208-240 / 120        | 16A, IEC 320-C20 Input connector<br>Country-specific, Detachable power cord | (6) 5-20R, (1) L14-30R  | 3.0 x 17.0 x 23.9      | 50          |
| PPDM1-HV-US-P2              | 103002730-6501 | 208-240             | 120                  | 16A, IEC 320-C20 Input connector<br>Country-specific, Detachable power cord | (6) 5-20R, (1) L5-30R   | 3.0 x 17.0 x 23.9      | 50          |
| PPDM1-HV-US-P3              | 103002731-6501 | 208-240             | 120                  | 16A, IEC 320-C20 Input connector<br>Country-specific, Detachable power cord | (6) 5-20R   | 3.0 x 17.0 x 23.9      | 50          |
| PPDM1-HV-US-HW              | 103002732-6501 | 208-240             | 208-240/120          | 30A Terminal block<br>(3 terminals)   | 30A Terminal block<br>(4 terminals)                               | 3.0 x 17.0 x 23.9      | 50          |
| PPDM2-HV-US-P1              | 103002733-6501 | 208-240             | 208-240              | 16A, IEC 320-C20 Input connector<br>Country-specific, Detachable power cord | (1) L6-30R  | 3.0 x 17.0 x 23.9      | 20          |
| PPDM2-HV-EU-P2              | 103002740-6501 | 208-240             | 208-240              | 16A, IEC 320-C20 Input connector<br>Country-specific, Detachable power cord | (2) 16A, IEC 320-C19  | 3.0 x 17.0 x 23.9      | 20          |
| PPDM2-US-HW                 | 103002734-6501 | 208-240             | 208-240              | 30A Terminal block<br>(3 terminals)   | 30A Terminal block<br>(3 terminals)                               | 3.0 x 17.0 x 23.9      | 20          |
| PPDM2-LV-US-HW              | 103002735-6501 | 120                 | 120                  | 30A Terminal block<br>(3 terminals)   | 30A Terminal block<br>(3 terminals)                               | 3.0 x 17.0 x 23.9      | 20          |
| <b>5000/6000 VA Models</b>  |                |                     |                      |   |   |                        |             |
| PPDM, L6-30                 | 103003214-6501 | 208-240             | 208-240/120          | L6-30P  | (1) L6-30R, (8) 5-15R   | 5.25 x 17.37 x 24.75   | 106         |
| PPDM, L6-20                 | 103003214-6502 | 208-240             | 208-240/120          | L6-30P  | (1) L6-20R, (8) 5-15R   | 5.25 x 17.37 x 24.75   | 106         |
| PPDM, L5-30                 | 103003214-6503 | 208-240             | 208-240/120          | L6-30P  | (1) L5-30R, (8) 5-15R   | 5.25 x 17.37 x 24.75   | 106         |
| PPDM, L14-30                | 103003214-6504 | 208-240             | 208-240/120          | L6-30P  | (1) 14-30R, (8) 5-15R   | 5.25 x 17.37 x 24.75   | 106         |
| PPDM, HW                    | 103003214-6505 | 208-240             | 208-240/120          | Hard-wired  | Hard-wired  | 5.25 x 17.37 x 24.75   | 106         |
| PPDM, EURO HW               | 103003214-6506 | 208-240             | 208-240/120          | Hard-wired  | Hard-wired  | 5.25 x 17.37 x 24.75   | 106         |
| PPDM, L6-30&L14-30          | 103003214-6507 | 208-240             | 220-240/120          | L6-30P  | (1) L6-30R, (1) L14-30R,<br>(4) 5-15R                             | 5.25 x 17.37 x 24.75   | 106         |
| PPDM, L6-30 (2)             | 103003214-6508 | 208-240             | 208-240/120          | L6-30P  | (2) L6-30R, (4) 5-20R   | 5.25 x 17.37 x 24.75   | 106         |
| PPDM, L6-20 (2)             | 103003214-6509 | 208-240             | 208-240/120          | L6-30P  | (2) L6-30R, (4) 5-20R   | 5.25 x 17.37 x 24.75   | 106         |

1. 5000/6000 VA PPDM Black Chassis Option, change order number from -55XX to -65XX.

## OPTIONAL MOUNTING HARDWARE

| DESCRIPTION  | PART NUMBER    |
|--|----------------|
| PW9215 700 - 3000 VA Mounting Rail Kit, 2-post 2U,                           | 05146726-5591  |
| PW9215 700 - 3000 VA Mounting Rail Kit, 4-post 2U,                           | 05141562-0091  |
| PW9125 - 3000 VA Mounting Rail Kit, 4-post                                   | 103005156      |
| PW9125 5000/6000 VA Mounting Rail Kit, Beach Grey                            | 103003226      |
| PW9125 5000/6000 VA Mounting Rail Kit, Black                                 | 103003226-001  |
| PW9125 5000/6000 VA Pedestal Kit, Beach Grey                                 | 103005431      |
| PW9125 5000/6000 VA Pedestal Kit, Black                                      | 103003227-001  |
| PW9125 700 - 3000 VA Seismic Kit,<br>Three Unit (For 3 UPSs or EBM)          | 05146871-5501  |
| PW9125 700 - 3000 VA Seismic Kit,<br>Five Unit (For 5 UPSs or EBM)           | 05146875-5501  |
| PW9125 5000/6000 Seismic Kit 3-unit<br>(1-UPS, 2 PPDM or Battery) Beach Grey | 103003229-5501 |
| PW9125 5000/6000 Seismic Kit 3-unit<br>(1-UPS, 2 PPDM or Battery) Black      | 103003229-6501 |

## CONNECTIVITY OPTION CARDS

| MODEL  | PART NUMBER    | DIMENSIONS (H X W X D)  |
|--|----------------|-------------------------|
| X-Slot ConnectUPS-X<br>Web/SNMP/xHub Card        | 103002974-5501 | Fits in rear panel slot |
| X-Slot ConnectUPS-M Card                         | 05146288-5501  | Fits in rear panel slot |
| X-Slot Multi-Server Card                         | 05146447-5502  | Fits in rear panel slot |
| X-Slot Relay Card<br>(AS/400 compatible)         | 1018460        | Fits in rear panel slot |
| X-Slot USB Card                                  | 05146508-5501  | Fits in rear panel slot |
| X-Slot Modbus Card                               | 103002510-5501 | Fits in rear panel slot |
| Expansion Chassis<br>(equipped with Modbus card) | 5147063        |                         |

Notes: 1.LanSafe cable DB9f to DB9m P/N 60420064-002 is shipped with the UPS.

**MODEL SELECTION GUIDE - POWERWARE 9125**

| MODEL NUMBER <sup>1</sup>         | PART NUMBER <sup>2</sup> | POWER RATING<br>(VA/WATT) | INPUT<br>CONNECTION | OUTPUT RECEPTACLES               | DIMENSIONS HXWXD<br>(IN / MM)      | UNIT WT.<br>(LB/KG) <sup>6</sup> |
|-----------------------------------|--------------------------|---------------------------|---------------------|----------------------------------|------------------------------------|----------------------------------|
| <b>120 Vac Models<sup>3</sup></b> |                          |                           |                     |                                  |                                    |                                  |
| PW9125 700                        | 05146012-6501            | 700 / 490                 | 5-15P               | (6) 5-15R                        | 3.5 x 17.0 x 19.4 / 89 x 432 x 494 | 34/15                            |
| PW9125 1000                       | 05146002-6501            | 1000 / 700                | 5-15P               | (6) 5-15R                        | 3.5 x 17.0 x 19.4 / 89 x 432 x 494 | 34/15                            |
| PW9125 1250                       | 05146008-6501            | 1250 / 875                | 5-15P               | (6) 5-15R                        | 3.5 x 17.0 x 19.4 / 89 x 432 x 494 | 50/23                            |
| PW9125 1500                       | 05146005-6501            | 1500 / 1050               | 5-15P               | (6) 5-15R                        | 3.5 x 17.0 x 19.4 / 89 x 432 x 494 | 50/23                            |
| PW9125 2000                       | 05146001-6501            | 2000 / 1400               | 5-20P               | (6) 5-15R                        | 3.5 x 17.0 x 19.4 / 89 x 432 x 494 | 50/23                            |
| PW9125 2000 20R                   | 05146001-6506            | 2000 / 1400               | 5-20P               | (4) 5-15R, (2) 5-20R             | 3.5 x 17.0 x 19.4 / 89 x 432 x 494 | 50/23                            |
| PW9125 2500                       | 103002716-6591           | 2500 / 1750               | L5-30P              | (2) 5-15R, (2) 5-20R, (1) L5-30R | 3.5 x 17.0 x 23.9 / 89 x 432 x 607 | 81.5/37                          |
| PW9125 3000                       | 103002717-6591           | 3000 / 2100               | L5-30P              | (2) 5-15R, (2) 5-20R, (1) L5-30R | 3.5 x 17.0 x 23.9 / 89 x 432 x 607 | 81.5/37                          |

|                                   |                |             |                   |                                    |  |          |
|-----------------------------------|----------------|-------------|-------------------|------------------------------------|--|----------|
| <b>230 Vac Models<sup>5</sup></b> |                |             |                   |                                    |  |          |
| PW9125 700i                       | 05146622-6501  | 700 / 490   | IEC 320-C14       | (6) IEC 320-C13                    | 3.5 x 17.0 x 19.4 / 89 x 432 x 494     | 34/15    |
| PW9125 1000i                      | 05146011-6591  | 1000 / 700  | IEC 320-C14       | (6) IEC 320-C13                    | 3.5 x 17.0 x 19.4 / 89 x 432 x 494     | 34/15    |
| PW9125 1250i                      | 05146009-6501  | 1250 / 875  | IEC 320-C14       | (6) IEC 320-C13                    | 3.5 x 17.0 x 19.4 / 89 x 432 x 494     | 50/23    |
| PW9125 1500i                      | 05146006-6591  | 1500 / 1050 | IEC 320-C14       | (6) IEC 320-C13                    | 3.5 x 17.0 x 19.4 / 89 x 432 x 494     | 50/23    |
| PW9125 2000i                      | 103006571-6591 | 2000 / 1400 | IEC 320-C14       | (6) IEC 320-C13                    | 3.5 x 17.0 x 19.4 / 89 x 432 x 494     | 50/23    |
| PW9125 2500G                      | 103004340-6591 | 2500 / 1750 | Detachable L6-20P | (4) IEC-320-C13<br>(1) IEC-320-C19 | 3.5 (2U) x 17.0 x 23.9                 | 81.5     |
| PW9125 3000G                      | 103002728-6591 | 3000 / 2100 | Detachable L6-20P | (4) IEC-320-C13<br>(1) IEC-320-C19 | 3.5 (2U) x 17.0 x 23.9                 | 81.5     |
| PW9125 2500G HW                   | 103004341-6591 | 2500 / 1750 | Hard-wired        | Hard-wired                         | 3.5 (2U) x 17.0 x 23.9                 | 81.5     |
| PW9125 3000G HW                   | 103004342-6591 | 3000 / 2100 | Hard-wired        | Hard-wired                         | 3.5 (2U) x 17.0 x 23.9                 | 81.5     |
| PW9125 5000g HW                   | 103003623-6591 | 5000 / 3500 | Hard-wired        | Hard-wired                         | 8.63 x 17.37 x 24.94 / 219 x 441 x 633 | 206/93.4 |
| PW9125 5000g                      | 103003633-6591 | 5000 / 3500 | L6-30P            | L6-30R                             | 8.63 x 17.37 x 24.94 / 219 x 441 x 633 | 206/93.4 |
| PW9125 6000g HW                   | 103003625-6591 | 6000 / 4200 | Hard-wired        | Hard-wired                         | 8.63 x 17.37 x 24.94 / 219 x 441 x 633 | 206/93.4 |
| PW9125 6000g                      | 103003635-6591 | 6000 / 4200 | L6-30P            | L6-30R                             | 8.63 x 17.37 x 24.94 / 219 x 441 x 633 | 206/93.4 |

1. 50/60 automatic frequency selection. 2. Black chassis option, change order number from -5501 to -6501 (for 700 VA -2000 VA & 5000/6000 VA models only). 3. 120V models are 110V, 120V, 127V user-selectable. 4. 208V Models are 208V, 220V, 230V, 240V user-selectable. 5. 230V models are 208V, 220V, 230V, 240V user-selectable. 6. add 8.5 lbs for shipping weight.

**OPTIONAL EXTENDED BATTERY MODULES (EBMS)**

| MODEL <sup>1</sup>                             | PART NUMBER    | DIMENSIONS<br>(H X W X D) | WEIGHT<br>(LB) |
|--|----------------|---------------------------|----------------|
| PW9125 24 EBM For 700/1000VA Models Only       | 05146502-6591  | 3.5 x 19.0 x 19.4         | 65             |
| PW9125 48 EBM For 1250,1500,2000VA Models Only | 05146074-6591  | 3.5 x 19.0 x 19.4         | 65             |
| PW9125 72 EBM For 2500 & 3000 Models Only      | 103002836-6591 | 3.5 x 17.0 x 23.9         | 93             |
| PW9125 240 EBM For 5000 & 6000 Models Only     | 103003387-6591 | 5.25 x 17.0 x 24.75       | 169            |
| PW9125 48Vdc Extended Battery Cabinet          | 124100014-002  | 17.2 x 24.6 x 28.3        | 665            |

1. Black chassis option, change order number from -5501 to -6501 (for 700 VA -2000 VA & 5000 / 6000 VA models only).

# Technical Specifications<sup>1</sup>

| <b>ELECTRICAL INPUT</b> | <b>700 – 3000 VA</b>   | <b>5000/6000 VA</b>                |
|-------------------------|--|------------------------------------|
| Nominal Voltage         | 120 Vac, 208 - 240 Vac   | 208 - 240 Vac                      |
| Voltage Range           | 120V: 80-144V (without using batteries)<br>208/230V: 160-288 (without using batteries) | 160-288V (without using batteries) |
| Input Power Factor      | >.95, typical  | >.96 in any mode                   |
| Frequency               |  | 50 or 60 Hz, auto-sensing          |
| Frequency Range         | 45-65 Hz   | 50 Hz: 47-53 Hz<br>60 Hz: 57-63 Hz |

## ELECTRICAL OUTPUT

|                               |                                  |  |
|-------------------------------|----------------------------------|--|
| On Utility Voltage Regulation |                                  | ± 3% of nominal  |
| On Battery Voltage Regulation |                                  | ± 3% of nominal  |
| Efficiency                    | 89-92%, depending on load        | >85% Online Mode; >90% High-efficiency Mode                      |
| Frequency Regulation          | ± 3 Hz online; ± 1 Hz on battery | ± 3 Hz online; ± 1 Hz on battery;<br>± 3 Hz High-Efficiency Mode |
| Load Crest Factor             |                                  | 3 to 1   |

## BATTERY

|                       |  |   |
|-----------------------|--|---|
| Internal Battery Type | 9 Ah, Sealed, lead-acid; maintenance free                                  | 7 Ah, Sealed, lead-acid; maintenance free |
| EBM Battery Type      | 9 Ah, Sealed, lead-acid; maintenance free                                  | 9 Ah, Sealed, lead-acid; maintenance free |
| Battery Runtime       | See Battery Runtimes table   |   |
| Battery Replacement   | Hot-swappable internal and external batteries                              |   |
| Recharge Time         | <2 hrs. From complete discharge to 80% capacity at nominal line conditions |   |
| Start-On-Battery      | Allows start of UPS without utility input                                  |   |

## GENERAL

|                        |                                      |  |
|------------------------|--------------------------------------|--|
| Topology               | True online, double-conversion       |  |
| Diagnostics            | Full system self-test on power up    |  |
| UPS Bypass             | Automatic on overload or UPS failure |  |
| Dimensions and Weights | See Model Selection Guide            |  |

## COMMUNICATIONS

|                      |   |   |
|----------------------|---|---|
| Serial Port          | RS-232 communications port standard;<br>optional X-Slot modules available | RS-232 and USB communications port standard;<br>optional X-Slot modules available |
| Communications Cable | 6-foot communications cable included                                      |   |

## ENVIRONMENTAL

|                             |  |  |
|-----------------------------|--|--|
| Safety Markings             | 120 V: UL, CSA, and NOM; 230 V: UL, CSA, VDE,<br>CE S, D, N, FI, B, NOM, R; 208 V: UL, CSA | UL, cUL, VDE, CE, NOM, NYCE, GS                                |
| EMC Markings                | FCC Class B and VCCI Class II 3000 FCC Class A   | FCC-A, VCCI-A, BSMI-A, C-Tick, CE Compliance                   |
| Surge Suppression           | IEEE/ANSI C62.41 Category B (formerly 587)   | ANSI C62.41 Category B3, and<br>EN61000-4-5 Level 3 Criteria B |
| Audible Noise               | <45 dBA (on utility); <50 dBA (on battery)   |  |
| Ambient Operating/          | 0 to 40° C (32 to 104° F)  |  |
| Heat Dissipation            | 2066 BTU/hr. Max   |  |
| Leakage Current             | < .6 mA Typical  |  |
| Storage Temperature         | 0 to 25° C (32 to 77° F)   |  |
| Relative Humidity           | 0 to 90%, non-condensing   | 5 to 90%, non-condensing                                       |
| REPO Port                   | NEC Code 645-11 intent and UL requirements   |  |
| Network Transient Protector | In and out jack for models only or 10 Base-T<br>network cable; protection. UL497A tested   | N/A  |

1. Specifications are typical and subject to change without notice due to continuing product improvement programs.

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Italy: 39.02.66.04.05.40  
Norway: 47.23.03.65.50  
Sweden: 46.8.598.940.00  
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China: 86.21.6361.5599  
HK/Korea/Taiwan: 852.2745.6682  
India: 91.11.2649.9414 to 18  
Singapore/SEA: 65.6825.1668

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