

# EATON

# 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

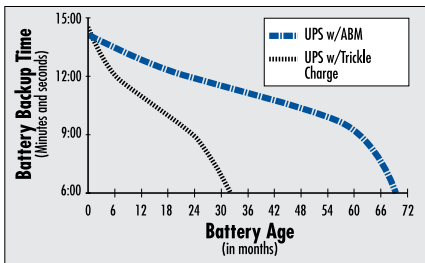


Powerware 9125 3000 VA

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

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



Powerware 9125 6000 VA with 2 EBMs

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

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

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.

### 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

Even when presented with the most severe power problems, power



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.

## MODEL SELECTION GUIDE - POWERWARE 9125

Model Number <sup>1</sup>	Part Number <sup>2</sup>	Power Rating (VA/Watt)	Input Connection	Output Receptacles	Dimensions HxWxD (in / mm)	Unit Wt. (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

### 230 Vac Models<sup>5</sup>

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 (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 (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 (H x W x D)	Weight (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).

## 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 Attached power cord	(6) 5-15R, (1) L5-15R 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 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 Attached power cord	(6) 5-20R, (1) L5-30R	3.0 x 17.0 x 23.9	20
PPDM1-HV-US-P1	103002739-6591	208-240	208-240 / 120	16A, IEC 320-C20 Input connector 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 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 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 (3 terminals)	30A Terminal block (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 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 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 (3 terminals)	30A Terminal block (3 terminals)	3.0 x 17.0 x 23.9	20
PPDM2-LV-US-HW	103002735-6501	120	120	30A Terminal block (3 terminals)	30A Terminal block (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, (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, Three Unit (For 3 UPSs or EBMs)	05146871-5501
PW9125 700 - 3000 VA Seismic Kit, Five Unit (For 5 UPSs or EBMs)	05146875-5501
PW9125 5000/6000 Seismic Kit 3-unit (1-UPS, 2 PPDM or Battery) Beach Grey	103003229-5501
PW9125 5000/6000 Seismic Kit 3-unit (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 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 (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 (equipped with Modbus card)	05147063	

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

# Technical Specifications<sup>1</sup>

Electrical Input	700 – 3000 VA	5000/6000 VA
Nominal Voltage	120 Vac, 208 - 240 Vac	208 - 240 Vac
Voltage Range	120V: 80-144V (without using batteries) 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 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; ± 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; optional X-Slot modules available	RS-232 and USB communications port standard; 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, 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 EN61000-4-5 Level 3 Criteria B
Audible Noise	<45 dBA (on utility); <50 dBA (on battery)	
Ambient Operating/ Heat Dissipation	0 to 40° C (32 to 104° F) 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 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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Norway: 47.23.03.65.50

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