

# Eaton 9135 UPS



## Product snapshot

<b>Power rating:</b>	5 kVA/3.5 kW; 6 kVA/4.2 kW
<b>Voltage:</b>	208V or 230V nominal, 200–250 Vac range
<b>Frequency:</b>	50/60 Hz (auto-sensing)
<b>Configuration:</b>	Rackmount (3U) or tower

## Features

- Provides clean, continuous power to protect critical equipment and applications from power-related downtime, data loss and corruption, and process interruption
- Saves valuable rack space by delivering up to 6000 VA/4200W in only 3U
- Provides deployment versatility by offering rack and tower installation options with rail kits and pedestal stands provided
- Increases availability with hot-swappable batteries and power module and an optional external maintenance bypass
- Offers extended battery runtime options to power essential systems for more than an hour during an outage
- Simplifies UPS monitoring and management with a bright LCD user interface; Intelligent Power® Software Suite (perfect for managing virtualized environments); and optional eNotify service from Eaton®
- Provides investment protection with a two-year limited warranty, an extended warranty, Flex and PowerTrust service contracts, and a \$250,000 load protection guarantee (U.S. and Canada)

### Low total cost of ownership:

- Cut energy usage and costs with up to 97% efficiency when operating in high efficiency mode
- Reduce facility cooling costs, when operating in high efficiency mode BTU output is reduced by more than 60%



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The 9135 (top) fits easily into a rack with an EBM (bottom) and a PPDM (not pictured)

**Optional Power Pass Distribution Modules (PPDMs)**

- 3U rack/tower PPDM provides additional power output receptacles
- Integrated step-down transformer supplies 120V receptacles and loads
- Full system maintenance bypass keeps critical loads online when replacing or servicing the connected 9135

**Optional Extended Battery Modules (EBMs)**

- 3U rack/tower EBMs give 9135 users the ability to extend the available runtime of the 9135 UPS to over one hour at maximum load
- In areas prone to power loss, or where mechanical backup generators are not available, EBMs give much-needed peace of mind and allow critical systems to operate for extended periods

**Independently controlled outlet groups (230V models only)**

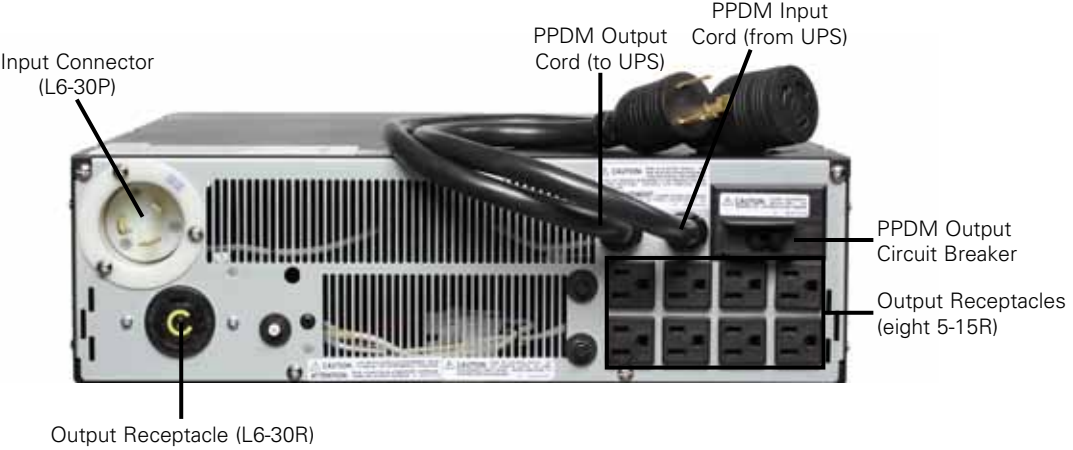
- Enables orderly shutdown on non-essential equipment and applications to extend battery runtime for critical loads



Even non-technical users can easily replace the hot-swappable batteries or power modules without interrupting power to loads



Independently control groups of output receptacles (230V models only)



**PPDM back panel input and output configuration**

# Technical specifications<sup>1</sup>

## General

User interface	Graphical LCD with blue backlight and text in English, French, German, Portuguese, Italian and Spanish
LEDs	Four (4) status-indicating LEDs
Topology	Double-conversion
Diagnostics	Full system self-test
UPS bypass	Included with all units
Dimensions	See model selection guide
Rail kit	Included with all units

## Electrical input

Nominal voltage	208V, 230V 200V, 208V, 220V, 230V, 240V and 250V user-selectable
Voltage range	156–280 Vac (output PF 0.7)
Power draw of UPS (full load)	5000 VA: 24.0A @208V 6000 VA: 28.8A @208V
Recommended input breaker rating	30A
Frequency	50/60 Hz autoselect
Frequency range	40–70 Hz

## Electrical output

Power factor	0.7
On utility voltage regulation	±2% of nominal
On battery voltage regulation	±2% of nominal
Efficiency	>97% in high-efficiency mode; 91% in normal mode
Frequency regulation	±3% Hz online
Load crest factor	3 to 1

## Battery

Internal battery type	5.5 Ah, sealed, lead-acid; maintenance free
External battery modules	Up to four (4) per 9135, four-post rail kits included for rack mounting
EBM battery type	5.5 Ah, sealed, lead-acid; maintenance free
Battery runtime	Four (4) minutes with internal batteries @100% load (0.7 PF) For additional details, see battery runtime chart
Battery recharge time	Six (6) hours to recover 90 percent of nominal backup time after 100 percent RCD load discharge
Battery replacement	Hot-swappable internal and external batteries
Start-on-battery	Allows start of UPS without utility input

## Communications

Serial port	RS-232 as standard, RS-232 cable provided
USB port	As standard (HID)
Relay output	DB-9 Dry Contact—common alarm as standard
Communications slot	Optional communication slots (Mini X-Slot®)
Software	Intelligent Power Manager UPS supervisory software

## Environmental

Safety markings	208V: UL, NOM, NYCE 230V: CE, C-Tick, UL, GS
EMC markings	208/230V: FCC-A, VCCI-A, BSMI-A, C-Tick, CE Compliance
Audible noise	Max 46 dB
Ambient operating	0°C (32°F) to +40°C (104°F)
Storage and temperature	-20°C (-4°F) to +40°C (104°F) with batteries and -25°C (-13°F) to +55°C (131°F) without batteries
Relative humidity	5–90% non-condensing

## Heat dissipation (BTUs/hour)

Operating mode	Efficiency	5 kVA	6 kVA
Normal	91%	1150	1350
Battery	86%	1650	1960
High efficiency	97%	370	450

## Back panel configurations



230V



208V

Back panel configurations vary by model type.

## MODELS

Catalog Number	Style Number	Rating (kVA/Watts)	Input connection	Output receptacles	Dimensions H x W x D, in (mm)	Weight, lb (kg)
<b>North American Rack/Tower Models: 208V, 50/60 Hz</b>						
PW9135G5000-XL3UHW	103006717-6591	5000/3500	Hardwired	Hardwired + (4) L6-30R	5.14 (3U) x 17.5 x 29.2 (130 x 444 x 741)	125.7 (57.0)
PW9135G5000-XL3U	103006718-6591	5000/3500	L6-30P	Hardwired + (4) L6-30R	5.14 (3U) x 17.5 x 29.2 (130 x 444 x 741)	125.7 (57.0)
PW9135G6000-XL3UHW	103006719-6591	6000/4200	Hardwired	Hardwired + (4) L6-30R	5.14 (3U) x 17.5 x 29.2 (130 x 444 x 741)	125.7 (57.0)
PW9135G6000-XL3U	103006720-6591	6000/4200	L6-30P	Hardwired + (4) L6-30R	5.14 (3U) x 17.5 x 29.2 (130 x 444 x 741)	125.7 (57.0)
<b>International Rack/Tower Models: 230V, 50/60 Hz</b>						
PW9135G5000-XL3UEU	103006721-6591	5000/3500	Hardwired	Hardwired + (2) C19, (8) C13	5.14 (3U) x 17.5 x 29.2 (130 x 444 x 741)	125.7 (57.0)
PW9135G6000-XL3UEU	103006722-6591	6000/4200	Hardwired	Hardwired + (2) C19, (8) C13	5.14 (3U) x 17.5 x 29.2 (130 x 444 x 741)	125.7 (57.0)
<b>Extended Battery Modules</b>						
PW9135N6000-EBM3U	103006723-6591	N/A	N/A	N/A	5.14 (3U) x 17.5 x 25.6 (130 x 444 x 650)	155.4 (77.5)

## POWERPASS DISTRIBUTION MODULES (PPDMS)\*

Catalog Number	Rating (VA/Watts)	Input connection	Output receptacles	Dimensions H x W x D, in (mm)	Weight, lb (kg)
EPPDMG6000-3U-1	208-240, 208-240/120	L6-30P	(1) L6-30R, (8) 5-15R	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)
EPPDMG6000-3U-2	208-240, 208-240/120	L6-30P	(1) L6-20R, (8) 5-15R	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)
EPPDMG6000-3U-3	208-240, 208-240/120	L6-30P	(1) L5-30R, (8) 5-15R	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)
EPPDMG6000-3U-4	208-240, 208-240/120	L6-30P	(1) L14-30R, (8) 5-15R	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)
EPPDMG6000-3U-HW	208-240, 208-240/120	Hardwired	Hardwired	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)
EPPDMG6000-3U-HWEU	230-240, 230-240/120	Hardwired	Hardwired	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)
EPPDMG6000-3U-5	208-240, 208-240/120	L6-30P	(1) L6-30R, (1) L14-30R, (4) 5-15R	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)
EPPDMG6000-3U-6	208-240, 208-240/120	L6-30P	(2) L6-30R, (4) 5-20R	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)
EPPDMG6000-3U-7	208-240, 208-240/120	L6-30P	(2) L6-20R, (4) 5-20R	5.25 (3U) x 17.4 x 24.8 (133 x 442 x 630)	106.0 (48.1)

\* All models fit in 19-inch rack enclosures and include a four-post rackmount kit. Connection cables to the UPS are included with the PPDMS; use the input cord from the UPS as input to the PPDMS, except for hardwire units.

## BATTERY BACKUP TIMES (IN MINUTES, 0.7 PF)

Load (VA/Watts)	Standard Internal Batteries	+1 EBM	+2 EBMs	+3 EBMs	+4 EBMs
1000/700	36	132	232	332	433
2000/1400	13	52	95	140	184
3000/2100*	10	40	74	110	146
4000/2800	7	29	53	80	107
5000/3500	5	22	41	62	83
6000/4200*	4	18	33	50	68

\*Runtimes available for the 6 kVA model only.

The 9135 is part of the UPSgrade™ program

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