

# Eaton 9130 Rackmount UPS



## Product snapshot

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<b>Product rating:</b>	700–3000 VA
<b>Voltage</b>	120 Vac, 208–240V
<b>Frequency:</b>	50/60 Hz (auto-sensing)
<b>Configuration:</b>	Rackmount

### Advanced power protection for:

- IT and networking environments
- Rack servers, networking gear
- Telecommunications, VoIP, security systems
- Medical systems
- Diagnostics and medical screening
- Patient record archives
- Manufacturing systems
- Chip fabrication
- Pharmaceutical production
- Chemical processing



*Powering Business Worldwide*

## Features

- Protects against downtime, data loss and process interruption by providing continuous, clean power
- Graphical user interface provides all critical UPS information on a single screen and enables settings control at the push of a button
- Provides up to 3000 VA in only 2U of rack space
- Offers premium performance with a 0.9 power factor and >95 percent efficiency in high efficiency mode
- Increases battery service life and system uptime with ABM<sup>®</sup> battery charging technology
- Enables prolonged runtime of essential equipment during power outages by allowing for orderly, remote shutdown of non-critical systems or processes
- Ensures data and system integrity with Intelligent Power<sup>®</sup> Manager supervisory software, which provides easy, versatile, remote monitoring and management of multiple devices
- Provides a two-year limited warranty, an extended warranty, on-site Flex and on-site PowerTrust service contracts, and a \$250,000 load protection guarantee (U.S. and Canada)

## Maximum availability

- ABM technology increases battery life and system uptime
- Load segments allow for selective load shedding during outages
- Optional 2U, hot-swappable extended battery modules (EBMs) extend backup runtime for hours
- Internal hot-swappable batteries can be replaced without powering down the UPS
- UPS startup on battery power
- HotSwap Maintenance Bypass (MBP) and PowerPass Distribution Modules (PPDMs) options enable the entire UPS to be serviced or replaced without powering down critical systems

## Low total cost of ownership

- More real output power for dollar spent with 0.9 power factor
- Cuts energy usage and costs with >95% efficiency rating in high efficiency mode
- 3000 VA in only 2U of space saves expensive data center real estate



Hot-swappable internal batteries in only 2U

### UPS status and operation

- Bright front panel LCD for easy monitoring and management
- LEDs to show system status
- Optional FlexPDU adds more plug-and-play flexibility, streamlining power distribution
- Multiple options for industry-standard communications
- Intelligent Power Manager supervisory software included free of charge
- Direct monitoring via existing management systems and LANs

### Communications

- A standard communication slot accepts interfaces for Web, SNMP, Modbus or serial connectivity
- Connect directly to the Ethernet network and the Internet to monitor and manage the UPS with a standard Web browser
- Monitor power conditions in real time through existing facilities or building management system
- Monitor and gracefully shut down multiple servers running various operating systems
- Receive alarm notifications from the UPS, environmental monitoring devices or security systems



Add up to four EBM's for hours of runtime

### Intelligent Power Software Suite

By integrating the suite with the Eaton 9130, you can:

- Seamlessly integrate with VMware's vCenter Server™ virtualization management solution, as well as virtualization platforms such as Citrix® XenServer, Microsoft SCVMM™, Red Hat® and other Xen® open source platforms
- Initiate live migration of virtual machines (VM) to automatically and transparently migrate VMs during power disruptions to unaffected devices with systems such as VMware vMotion™ and Microsoft Live Migration
- Integrate with VMware vCenter Site Recovery Manager

To learn more, please visit: [Eaton.com/intelligentpower](http://Eaton.com/intelligentpower)



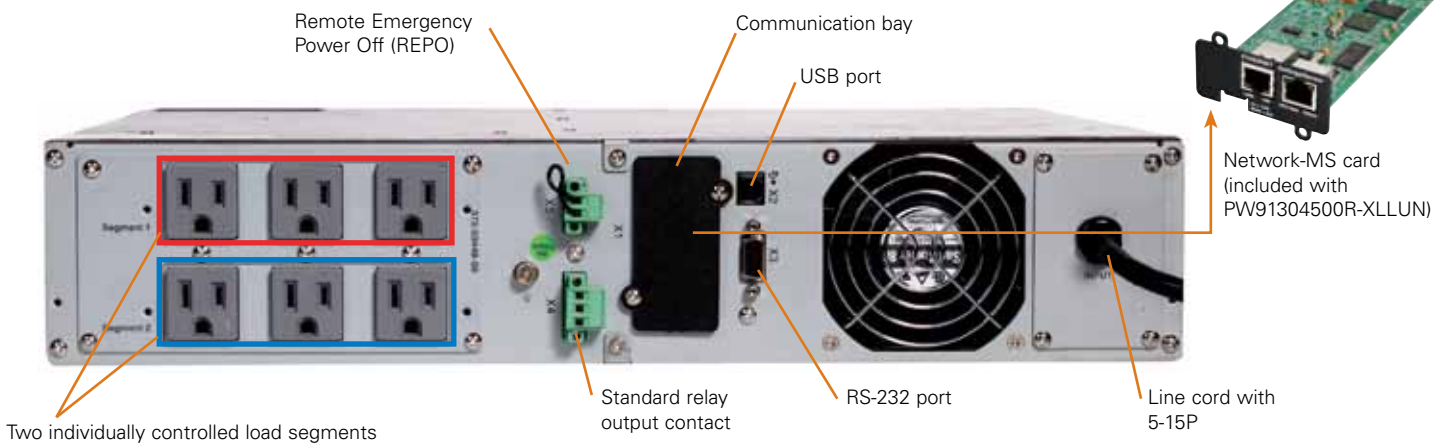
Optional FlexPDU and HotSwap MBP for greater flexibility and uptime

Four-post rail kit included (two-post rail kit optional)



Microsoft Partner Network

### UPS rear panel (PW9130L1500R-XL2U)



**9130 models**

Catalog number	Style number	Rating (VA/Watts)	Input connection <sup>1</sup>	Output receptacles	Dimensions H x W x D, in	Weight, lb
<b>North American models: 120V, 50/60 Hz</b>						
PW9130L700R-XL2U	103006447-6591	700/630	5-15P	(6) 5-15R	3.4 x 17.2 x 17.7	35.3
PW9130L1000R-XL2U	103006448-6591	1000/900	5-15P	(6) 5-15R	3.4 x 17.2 x 17.7	35.3
PW9130L1500R-XL2U	103006449-6591	1500/1350	5-15P	(6) 5-15R	3.4 x 17.2 x 17.7	43.0
PW9130L2000R-XL2U	103006450-6591	2000/1800	5-20P	(6) 5-20R, (1) L5-20R	3.4 x 17.2 x 23.6	63.9
PW9130L2500R-XL2U	103006451-6591	2500/2250	L5-30P	(6) 5-20R, (1) L5-30R	3.4 x 17.2 x 23.6	65.0
PW9130L3000R-XL2U	103006452-6591	3000/2700	L5-30P	(6) 5-20R, (1) L5-30R	3.4 x 17.2 x 23.6	65.0
PW9130L1500R-XL2UN	1500 / 1350	5-15P		(6) 5-15R	3.4 (2U) x 17.3 x 16.9	43.0
PW9130L2000R-XL2UN	2000 / 1800	5-20P		(6) 5-20R, (1) L5-20R	3.4 (2U) x 17.3 x 22.6	63.9
PW9130L3000R-XL2UN	3000 / 2700	L5-30P		(6) 5-20R, (1) L5-30R	3.4 (2U) x 17.3 x 22.6	65.0
<b>Global models: 208V, 50/60 Hz</b>						
PW9130G3000R-XL2U	103006454-6591	3000/2700	L6-20P <sup>4</sup>	(1) L6-30R, (1) L6-20R, (2) 6-20R	3.4 x 17.2 x 23.6	65.0
PW9130G3000R-XL2UEU	103006483-6591	3000/2700	L6-20P <sup>4</sup>	(8) C13, (1) C19	3.4 x 17.2 x 23.6	65.0
<b>International models: 230V, 50/60 Hz</b>						
PW9130i1000R-XL2U	103006455-6591	1000/900	C14	(6) C13	3.4 x 17.2 x 17.7	35.3
PW9130i1500R-XL2U	103006456-6591	1500/1350	C14	(6) C13	3.4 x 17.2 x 17.7	43.0
PW9130i2000R-XL2U	103006457-6591	2000/1800	C14	(8) C13, (1) C19	3.4 x 17.2 x 23.6	63.9
PW9130i3000R-XL2U	103006463-6591	3000/2700	C20	(8) C13, (1) C19	3.4 x 17.2 x 23.6	65.0

<b>Extended battery modules</b>						
PW9130N1000R-EBM2U5	103006458-6591	NA	NA	NA	3.4 x 17.2 x 17.7	48.7
PW9130N1500R-EBM2U6	103006459-6591	NA	NA	NA	3.4 x 17.2 x 17.7	62.0
PW9130N3000R-EBM2U7	103006460-6591	NA	NA	NA	3.4 x 17.2 x 23.6	90.6

**TAA Compliant SKUS** Eaton now offers TAA compliant models for the 9130. Please visit [Eaton.com/taaup](http://Eaton.com/taaup) for model specific information.

Catalog number	Description	Input connection	Output receptacles	Dimensions H x W x D, in	Weight, lb
<b>PowerPass Distribution Modules</b>					
103002730-6501	PPDM1-HV-US-P2 3 kVA	IEC320-C208	(1) L5-30R & (6) 5-20R	3.5 (2U) x 17.0 x 23.9	20.0
103002732-6591	PPDM1-HV-US-HW 3 kVA (ROHS)	Hardwire	Hardwire	3.5 (2U) x 17.0 x 23.9	20.0
103002735-6591	PPDM2-LV-US-HW 3 kVA (ROHS)	Hardwire	Hardwire	3.5 (2U) x 17.0 x 23.9	20.0
103002739-6591	PPDM1-HV-US-P1 3 kVA (ROHS)	IEC320-C208	(1) L14-30R & (6) 5-20R	3.5 (2U) x 17.0 x 23.9	20.0
103002742-6501	PPDM2-LV-US-P1 3 kVA	L5-30P8	(1) L5-30R & (6) 5-20R	3.5 (2U) x 17.0 x 23.9	20.0

1. Input cord length is 6 ft. 2. Rack models occupy 2U of rack space and fit into 19-inch racks. 3. C14, w/detachable L6-20P. 4. C20, w/detachable L6-20P. 5. This EBM works with 700/1000 VA models, where available. 6. This EBM works with 1500 VA model. 7. This EBM works with 2000/2500/3000 VA models, where available. 8. Connection cables to the UPS are included with the PPDM; use the input cord from the UPS as input to the PPDM, except for hardwire units. **Additional notes:** When high voltage 9130 is used at 208V, derate power by 10% and 20% at 200V. When low voltage 9130 is used at 110V, derate power by 10% and 20% at 100V.

**Battery runtimes (in minutes)**

Load (VA/Watts)	Internal batteries	w/1 EBM	w/2 EBMs	w/3 EBMs	w/4 EBMs	Load (VA/Watts)	Internal batteries	w/1 EBM	w/2 EBMs	w/3 EBMs	w/4 EBMs
<b>PW9130L700R-XL2U</b>						<b>PW9130L2000R-XL2U</b>					
700/490	14	55	102	148	175	2000/1400	9	45	86	124	163
525/368	20	77	140	179	239	1500/1050	14	66	115	165	225
350/245	32	124	189	282	414	1000/700	26	101	185	251	343
175/123	64	200	395	552	739	500/350	52	197	353	481	629
<b>PW9130L1000R-XL2U</b>						<b>PW9130L2500R-XL2U</b>					
1000/700	10	40	73	108	149	2500/2250	7	31	59	87	119
750/525	13	58	101	152	219	1875/1688	10	43	81	121	154
500/350	24	85	172	249	304	1250/1125	17	65	120	163	203
250/175	48	190	310	451	569	625/563	40	145	228	363	491
<b>PW9130L1500R-XL2U</b>						<b>PW9130L3000R-XL2U</b>					
1500/1050	7	34	63	88	135	3000/2100	5	25	48	72	100
1125/788	11	44	84	129	210	2250/1575	8	37	72	102	137
750/525	18	79	148	207	267	1500/1050	13	60	100	165	223
375/263	38	167	278	475	540	750/525	34	138	228	326	438
<b>PW9130i1500R-XL2U</b>						<b>PW9130G3000R-XL2U / PW9130G3000R-XL2UEU / PW9130i3000R-XL2U</b>					
1500/1050	7	32	61	98	128	3000/2100	6	25	45	68	96
1125/788	11	47	83	126	195	2250/1575	8	34	70	96	130
750/525	18	81	143	208	262	1500/1050	14	62	92	156	211
375/263	38	171	298	416	564	750/525	34	130	212	355	442

**Notes:** Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc. Runtimes are shown at a 0.7 power factor.

**Battery runtime**

You can get up to five hours of battery runtime using the internal batteries and extended battery modules. For a detailed, interactive battery runtime chart, please visit: [Eaton.com/9130](http://Eaton.com/9130).

# Technical specifications<sup>1</sup>

General		Communications	
User interface	Graphical LCD with blue backlight and text in English, French, German, Russian and Spanish	Serial port	RS-232 standard, for interface to power management software
LEDs	Four status-indicating LEDs	USB port	HID standard, for communicating with Windows 98, XP, ME and Vista computers
Topology	True online, double-conversion	Relay output	Common alarm standard
Diagnostics	Full system self-test	Communications slot	Optional communication slots (BD Slot, Mini-Slot)
UPS bypass	Automatic bypass	Optional communication cards	SNMP/Web card for direct control and monitoring in SNMP-based networks, monitoring of UPS status and meters through Web browser interface Relay card for integration to industrial environment and building management systems, remote shutdown for IBM AS/400 systems
Dimensions	See models table on previous page	Environmental	
Rail kit	4-post rail kit included with all rackmount units	Safety markings	120/208V: UL, CUL, VCCI 230V: CE, GS
EBMs	Ship with a 4-post rail kit	EMC markings	120V: FCC Class B, EN55022 Class B (1.5 kVA and below); FCC Class A, EN55022 Class A (2.0 kVA and above) 230V: CE (per IEC/EN62040-2: Emissions, Category C1; Immunity, Category C2)
Remote Emergency Power-off (REPO)	Emergency shutdown control	Audible noise	<50 dB
Electrical input		Ambient operating temperature	0°C (32°F) to +40°C (104°F)
Nominal voltage	120V, 208V, 220–240V	Storage temperature	-20°C (-4°F) to +40°C (104°F) with batteries and -25°C (-13°F) to +55°C (131 °F) without batteries
Voltage range	120V: 90–138 Vac 208/230V: 160–276 Vac	Relative humidity	5–90% non-condensing
Power draw of UPS	700: 5.8A @120V, 3.4A @208V, 3.0A @230V 1000: 8.3A @120V, 4.8A @208V, 4.3A @230V 1500: 12.5A @120V, 7.2A @208V, 6.5A @230V 2000: 16.6A @120V, 9.6A @208V, 8.7A @230V 2500: 20.8A @208V, 10.9A @230V 3000: 14.4A @208V, 13.0A @230V	Heat dissipation for all voltages: 208–240V and 120V	
Dedicated circuit breaker rating	<b>120V:</b> 700–1500 VA: 15A 2000 VA: 20A 2500–3000 VA: 30A <b>208/230V:</b> 700–2000 VA: 10A 3000 VA: 16A	<b>Normal Mode</b>	700 VA: 350 BTUs/hr 1000 VA: 500 BTUs/hr 1500 VA: 750 BTUs/hr 2000 VA: 838 BTUs/hr 2500 VA: 1,047 BTUs/hr 3000 VA: 1,257 BTUs/hr
Frequency	50/60 Hz	<b>Battery Mode</b>	700 VA: 554 BTUs/hr 1000 VA: 674 BTUs/hr 1500 VA: 1,011 BTUs/hr 2000 VA: 1,348 BTUs/hr 2500 VA: 1,463 BTUs/hr 3000 VA: 1,755 BTUs/hr
Frequency range	45–65 Hz	Electrical output	
Power factor	0.9	On utility voltage regulation	±3% of nominal
On utility voltage regulation	±3% of nominal	On battery voltage regulation	±3% of nominal
Efficiency	>95% in high-efficiency mode; >86% in online mode	Frequency regulation	±3% Hz online
Frequency regulation	±3% Hz online	Load crest factor	3 to 1
Load crest factor	3 to 1	Voltage waveform	Sine wave
Voltage waveform	Sine wave	Load segments	Two configurable, individually controlled receptacles
Load segments	Two configurable, individually controlled receptacles	Battery	
Battery type	VRLA 12V/9 Ah (both internal and external)	Battery type	VRLA 12V/9 Ah (both internal and external)
Battery runtime	>3 minutes with internal batteries @100% load	Battery runtime	>3 minutes with internal batteries @100% load
Battery replacement	Hot-swappable internal and external batteries	Battery replacement	Hot-swappable internal and external batteries
Start-on-battery	Allows start of UPS without utility input	Start-on-battery	Allows start of UPS without utility input

## Comprehensive Eaton services available for 9130 Rack products

- Warranty+ extended warranties—3 or 5 years total
- On-site service plans for startups and preventive and corrective maintenance

Visit [Eaton.com/9130RM](http://Eaton.com/9130RM) for details.

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## UPSgrade™

[Eaton.com/UPSgrade](http://Eaton.com/UPSgrade)

The 9130 is part of the UPSgrade program

### What's in the box

- Tower pedestals
- Four-post rail kit
- User manual CD
- Intelligent Power Software Suite CD
- Quick start guide
- USB cable
- RS-232 serial cable
- Phillips Head screw driver
- 2 IEC to IEC jumper cables (208V/230V models)

For more information about the 9130, visit [Eaton.com/9130RM](http://Eaton.com/9130RM).

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