Eaton 5130 UPS

High-density power protection for critical loads from 1250 to 3000 VA—delivering more performance in less space at a value price

Product snapshot

Power rating: 1250 VA/1150W
                 1750 VA/1600W
                 2500 VA/2250W
                 3000 VA (2880 VA)/2700W

Voltage   120, 208 and 230 Vac, user-selectable voltages

Frequency: 50/60 Hz (auto-sensing)

Topology: Line-interactive, 0.9+ power factor

Configuration: Two-in-one rack/tower; pedestal and rail kit provided

CISCO™ Compatible

Eaton NetWatch Client 5.0 has tested compatible with Cisco Unified Communications Manager 4.3. Go to www.eaton.com/PQ/cisco for disclaimer.

Features

- Protects connected equipment from five of the most common power anomalies: failures, surges, sags, under-voltage and over-voltage
- Conserves valuable rack space with 2U form factor, that includes internal batteries, and 3U short-depth form factor, available for short-depth cabinets
- Provides more real power (watts), with a 0.9 power factor, to protect more equipment and leave room for expanding IT systems
- Maximizes availability with extended battery runtime options, hot-swappable batteries and optional maintenance bypass
- Extends battery runtime for critical devices with load segments
- Offers choice of rackmount or tower installation with two-in-one form factor (4-post rail kit and tower pedestals included)
- Delivers control and visibility with free power management software featuring an intuitive user interface
- Provides a two-year limited warranty, an extended warranty, on-site Flex and on-site PowerTrust service contracts, and a $150,000 load protection guarantee (U.S. and Canada)

E·A·T·N

Powering Business Worldwide

Maximum availability

- Load segments allow for selective load shedding during outages
- Optional extended battery modules (EBMs) extend backup runtime up to hours during power outages
- Hot-swappable batteries
- UPS startup on battery power
- Optional hot-swap maintenance bypass module enables the entire UPS to be serviced or replaced without interrupting power to loads

Control and visibility over UPS status and operation

- LEDs and audible alarms for up-to-the-minute status
- Multiple options for industry-standard communications
- LanSafe® monitoring and management software included free of charge
- Free NetWatch 5.0 software enables automatic shutdown of UPS-protected devices
- Direct monitoring via existing management systems and LANs

Low total cost of ownership

- Line-interactive topology for best price-to-performance ratio
- More real output power for dollar spent with 0.9 power factor
- Cuts energy usage and costs with 90%+ efficiency
- Pedestal and rail kits included at no extra charge
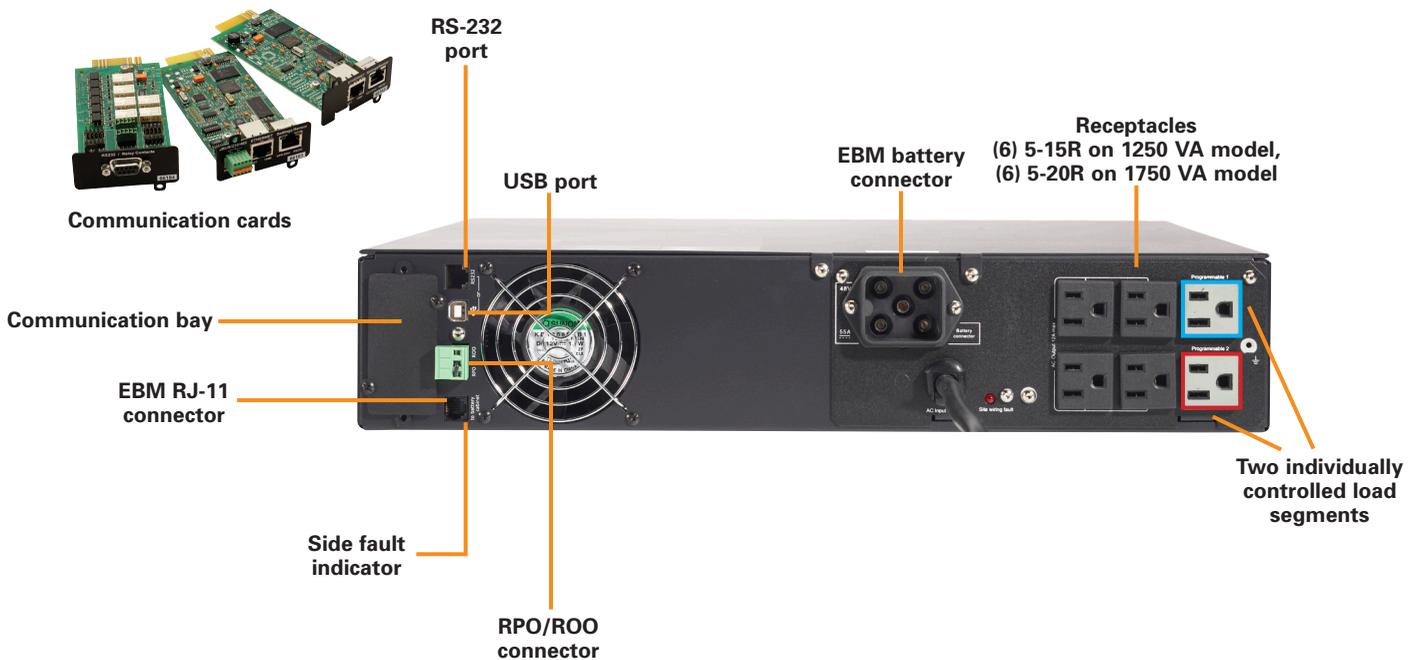- User-friendly UPS monitoring and management software included

Flexibility

- The 2U model is optimized for rack mounting but is easily deployed as tower; the 3U model is optimized for tower deployment or short-depth racks
- Optional FlexPDU adds more plug-and-play flexibility to free-standing or rack mounted UPSs

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 up to five servers running various operating systems
- Receive alarm notifications from the UPS, environmental monitoring devices or security systems

For more information on the 5130, please visit www.powerware.com/5130 800.356.5794

Communication cards

Communication bay

EBM RJ-11 connector

Side fault indicator

RPO/ROO connector

RS-232 port

USB port

EBM battery connector

Receptacles (6) 5-15R on 1250 VA model, (6) 5-20R on 1750 VA model

Two individually controlled load segments

UPS rear panel (1250–1750 VA)

MODEL SELECTION GUIDE

Catalog Number	Style Number	Rating (kVA/Watts)	Input connection	Output receptacles[3]	Dimensions H x W x D, in (mm)	Weight, lb (kg)
North American Rack/Tower Models[1]: 120V, 50/60 Hz						
PW5130L1250-XL2U	103006582-6591	1250/1150	5-15P (6 ft)	(6) 5-15R	3.4 x 17.4 x 20 (86.2 x 441 x 509)	53.6 (24.3)
PW5130L1750-XL2U	103006583-6591	1750/1600	5-20P (6 ft)	(6) 5-20R	3.4 x 17.4 x 20 (86.2 x 441 x 509)	58.6 (26.6)
PW5130L2500-XL2U	103006584-6591	2500/2250	L5-30P (6 ft)	(1) L5-30R, (6) 5-20R[4]	3.4 x 17.4 x 25 (86.2 x 441 x 634)	74.5 (33.8)
PW5130L3000-XL2U	103006585-6591	2880/2700	L5-30P (6 ft)	(1) L5-30R, (6) 5-20R[4]	3.4 x 17.4 x 25 (86.2 x 441 x 634)	74.5 (33.8)
PW5130L3000-XL3U	103006586-6591	2880/2700	L5-30P (6 ft)	(1) L5-30R, (6) 5-20R[4]	5.1 x 17.4 x 19.1 (130.7 x 441 x 484)	75.6 (34.3)
Global Rack/Tower Models: 208V, 50/60 Hz						
PW5130G3000-XL2U	103006595-6591	3000/2700	L6-20P (6 ft)	(2) L6-20R, (1) L6-30R	3.4 x 17.4 x 25 (86.2 x 441 x 634)	75.6 (34.3)
International Rack/Tower Models[2]: 230V, 50/60 Hz						
PW5130i1250-XL2U	103006590-6591	1250/1150	C14-10A	(8) C13-10A	3.4 x 17.4 x 20 (86.2 x 441 x 509)	53.6 (24.3)
PW5130i1750-XL2U	103006591-6591	1750/1600	C14-10A	(8) C13-10A	3.4 x 17.4 x 20 (86.2 x 441 x 509)	58.6 (26.6)
PW5130i2500-XL2U	103006592-6591	2500/2250	C20-16A	(1) C19 16A, (8) C13 10A	3.4 x 17.4 x 25 (86.2 x 441 x 634)	74.5 (33.8)
PW5130i3000-XL2U	103006593-6591	3000/2700	C20-16A	(1) C19 16A, (8) C13 10A	3.4 x 17.4 x 25 (86.2 x 441 x 634)	74.5 (33.8)
PW5130i3000-XL3U	103006594-6591	3000/2700	C20-16A	(1) C19 16A, (8) C13 10A	5.1 x 17.4 x 19.1 (130.7 x 441 x 484)	75.6 (34.3)
Rack/Tower Extended Battery Modules						
PW5130N1750-EBM2U	103006587-6591	NA	NA	NA	3.4 x 17.4 x 20 (86.2 x 441 x 509)	67.0 (30.4)
PW5130N3000-EBM2U	103006588-6591	NA	NA	NA	3.4 x 17.4 x 25 (86.2 x 441 x 634)	91.9 (41.7)
PW5130N3000-EBM3U	103006589-6591	NA	NA	NA	5.1 x 17.4 x 19.1 (130.7 x 441 x 484)	91.9 (41.7)

1. 120V models are user adjustable to 80-153V range. 2. 230V models are adjustable to 150-294V range. 3. All models are equipped with (2) load segments (programmable outlets). 4. 5-20R can fit both 5-15P and 5-20P.

BATTERY BACKUP TIMES (IN MINUTES)[1]

Load (VA/Watts)	Internal Batteries	+1 EBM	+2 EBMs	+3 EBMs	+4 EBMs
PW5130L1250-XL2U / PW5130i1250-XL2U (with PW5130N1750-EBM2U)					
125/115	135	500	850	1200	1550
313/288	58	255	450	648	805
625/575	20	105	175	225	300
938/863	14	57	93	133	184
1250/1150	6.5	41	76	110	145
PW5130L1750-XL2U / PW5130i1750-XL2U (with PW5130N1750-EBM2U)					
175/160	95	290	480	700	850
438/400	41	148	249	377	458
875/800	14	60	100	145	180
1313/1200	9	33	59	83	111
1750/1600	6	24	42	60	80
PW5130L2500-XL2U / PW5130i2500-XL2U (with PW5130N3000-EBM2U)					
250/225	90	375	610	925	1200
625/563	44	198	341	500	657
1250/1125	17	85	130	210	290
2153/1938	11	50	84	134	185
2500/2250	6	30	58	90	120
PW5130L3000-XL2U / XL3U / PW5130i3000-XL2U / XL3U / PW5130G3000-XL2U (with PW5130N3000-EBM2U or -EBM3U, depending on UPS height)					
300/270	80	320	525	750	900
750/675	40	158	279	380	514
1500/1350	15	60	100	150	210
2250/2025	9	37	71	90	124
3000/2700	5	24	46	68	90

1. Battery backup times, shown at 0.7 power factor, are approximate and may vary with equipment, configuration, battery age, temperature, etc.

2U rackmount model with 2U EBM—add up to four EBMs for hours of runtime

Tower pedestals and rail kits are included

Technical specifications[1]

General

LEDs	13 status-indicating LEDs
Topology	Line-interactive
Diagnostics	Full system self-test at power up
Transfer time	1–4 ms typical
ROO/RPO	Rear deck emergency stop connector (for remote on/off and power off)
Rail kit/tower stand	Included with all units

Electrical input

Nominal voltage	120/230 Vac
Voltage range[2]	120V: 89–151 Vac 230V: 160–294 Vac
Frequency	50/60 Hz
Frequency range	47–70 Hz for 50 Hz operation 56.5–70 Hz for 60 Hz operation
Power draw of UPS (full load)	1250: 10.4A @120V, 5.4A @230V 1750: 14.6A @120V, 7.6A @230V 2500: 20.8A @120V, 10.9A @230V 3000: 25.4A @120V, 14.4 @ 208V, 13.0A @230V

Electrical output

Power factor	0.9
On utility voltage regulation	120V: 102–132 Vac 230V: 184–265 Vac
On battery voltage regulation	-10%, +6% of nominal
Efficiency	Normal or line mode: >94% On battery: 70% (1250–1750 VA), 75% (2500–3000 VA)
Frequency regulation	0.1 Hz
Over current protection	Electronic current limit
Load crest factor	3:1
Load segments	Two individually controlled output receptacle

Battery

Internal battery type	Sealed, lead-acid; maintenance free 1250/2500 VA: 12V/7.2 Ah 1750/3000 VA: 12V/9 Ah
EBM battery type	12V/9 Ah
Battery runtime	1250 VA: 5 min w/internal batteries @100% load (0.9 PF) 1750 VA: 3.5 min w/internal batteries @100% load (0.9 PF) 2500–3000 VA: 3 min w/internal batteries @100% load (0.9 PF)
Battery replacement	Hot-swappable internal batteries
Start-on-battery	Allows start of UPS without utility input

Communications

Serial port	RS-232 (RJ45) ports
USB port	As standard (HID)
Optional communications slots	ConnectUPS-MS network management card and ModBus
Cables	RS-232 and USB 6-foot communications cables included
Power management software	Eaton Software Suite CD-ROM (bundled with UPS)

Environmental

Safety markings	120V: UL; cUL 230V: C-Tick; CE, TUV, cUL, UL
Safety conformance	120V: UL 1778; UL497A; cUL (CAN/CSA C22.2, No. 107.1) 230V: UL1778, UL 497A (data line only); cUL (CAN/CSA C22.2, No. 107.1); EN 50091-1-1 and IEC 60950
EMC compliance	120V: FCC Part 15 subpart B Class A 230V: EN 50091-2. FCC Part 15 subpart J Class A
Operating temperature	1250 VA: 0°C (32°F) to +40°C (104°F) 1750–3000 VA: 0°C (32°F) to +35°C (95°F)
Storage temperature	-15°C (5°F) to +50°C (122°F)
Relative humidity	20–95% non-condensing
Surge suppression	ANSI C62.41 Category A (formerly IEEE 587)
Audible noise	Max 45 dBA
Altitude	Up to 10,000 ft (3000M) without de-rating

Heat dissipation table (battery fully charged)

5130 model	Line mode, BTUs/hr	Battery mode, BTUs/hr
1250 VA	250	1,682
1750 VA	348	2,340
2500 VA	490	2,559
3000 VA	588	3,071

1. Due to continuing product improvement programs, all specifications are subject to change without notice.
2. The high and low thresholds can be user adjusted using the downloadable UPS Configuration tool.

PowerChain Management®

F·T·N

Powering Business Worldwide