

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/2700W |
| Voltage | 230 Vac, |
| Frequency: | 50/60 Hz (auto-sensing) |
| Topology: | Line interactive, 0.9 power factor |
| Configuration: | Rack or tower; pedestal and/or rail kit provided |

Features

- Protects connected equipment from five of the most common power anomalies: failures, surges, sags, under-voltage and over-voltage
- Provides more real wattage in less space with a 0.9 power factor—to protect more equipment and leave more room to expand IT systems
- Offers the choice of rackmount or tower installation—with space-saving 2U or 3U reduced-depth packages, including internal batteries
- Enables prioritised shutdown of non-essential equipment during outages to maximise battery runtime for critical devices—with load segmentation.
- Maximises availability with extended battery runtime options, hot-swappable batteries, optional maintenance bypass, remote monitoring and power management software

Investment protection

- Two-year limited factory warranty
- Extended warranty coverage options available:
Warranty+ = Advanced replacement change over
Warranty+ Silver = Advanced replacement / technician onsite
Warranty+ Gold = Advanced replacement / technician onsite and three annual maintenance visits

Maximum availability

- PowerShare to selectively shed loads during outages
- External battery modules for long battery backup runtimes
- Hot-swappable batteries
- UPS start-up on battery power
- Hot-swap maintenance bypass option to disconnect the UPS without disrupting loads

A one-stop solution provider, Eaton® provides world-class power protection, power management and distribution products including uninterruptible power systems (UPSs), DC power systems, software and services. Our Powerware® series has been recognised by end-users and industry experts for delivering the highest customer value and satisfaction, as well as for demonstrating insight into customer needs.

The newest Powerware series addition, the **Eaton 5130 UPS** offers more power in the same or smaller footprint than previous-generation equivalents, plus new performance features.

Valued protection at a value price—when you need manageability on a budget

The 5130 resolves outages, sags, surges, under-voltage and over-voltage conditions - and supplies regulated power to all connected equipment. This UPS is particularly well suited for protecting:

- **IT and networking equipment**, such as routers, switches, servers, wireless devices, storage systems, security systems and PC/workstation clusters
- **Telecom equipment**, such as PBXs, VoIP components and EDGE/3G/WiMAX wireless networking equipment

The 5130 is value-priced, but it delivers features you would normally expect to find in much higher-priced systems, such as: load segment control, hot-swappable battery modules, long battery runtime options, multiple communication options, high output power factor and high power density—all in a sleek, modern package.

More power in less space

High power density. Compared to earlier generation technologies, the 5130 powers more servers in less space, delivering up to 3000 VA in only 2U—including internal batteries. A 3U model is available for short-depth racks, commonly used for telecom equipment. High power density frees up rack space for more IT equipment, future expansion, or simply to have more room for airflow and heat dissipation.

High 0.9 power factor. Even though it occupies minimal rack space, the 5130 delivers significantly more real output wattage—more real power to your protected load. The difference is a very high 0.9 power factor, a measure of apparent power versus real power. By delivering more real output power, the 5130 powers more servers than another UPS of equivalent VA rating with a lower power factor.

Maximum deployment flexibility. The 5130 can be deployed as a tower unit or in a rack; pedestal and rail kits are included at no extra charge. This UPS also works with a ePDU (enclosure power distribution unit) to easily distribute power. The ePDU enables quick connection of varied load types without help from an electrician—great for responding to frequent moves, adds and changes to disconnect the UPS without disrupting loads.



Rackmount



Tower

Maximum availability for critical systems

More battery runtime for important systems. If the power goes out, you want to reserve available battery runtime for the most essential loads. With the 5130's load segmentation feature, PowerShare, you can independently control output receptacles. You can shut down power to less essential loads to extend available runtime for more critical devices.



load segmentation

PowerShare can also be used to remotely re-boot locked-up network equipment or manage scheduled shutdowns and sequential startups of connected equipment.

Battery runtime for minutes or hours. During a power outage, internal batteries in the 5130 keep loads running for up to 16 minutes (depending on load), long enough to gracefully shut down systems. You can add more runtime with up to four external battery modules to run systems for hours if necessary. Each external battery module occupies only 2U (3U for reduced depth, 3000 VA models) and provides more than an hour of runtime for a fully loaded UPS.

Service without downtime. With hot-swappable batteries, one person can replace a battery module without disrupting data centre operations or power to protected equipment. With an optional, multi-mount hot-swap maintenance bypass module, you can even remove and replace the entire UPS without powering down connected loads.

Visibility and control from anywhere

Local UPS status at a glance. LEDs on the front panel of the 5130 give you a quick read of UPS status. Audible indicators alert you to abnormal conditions.

Are internal batteries weak or low? Is there a site wiring fault? How much load is the UPS supporting, relative to its capacity? Is it at risk of overload? You get up-to-the-minute answers to these and more critical questions.

Choice of communication options. You would expect UPSs in this class to have one slot for a serial communications card, but the new 5130 has two built-in serial ports (one USB and one RS-232) plus an extra slot for another communication card to support Web or SNMP. Connectivity options are available to suit nearly any communication requirement.

Enhanced monitoring. With new card options, the UPS can communicate directly with network/building management systems, environmental monitors, relay contact devices, multiple servers and other UPSs—in a variety of networking environments, including the Web.

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 software included free of charge
- Direct monitoring via existing management systems and LANs

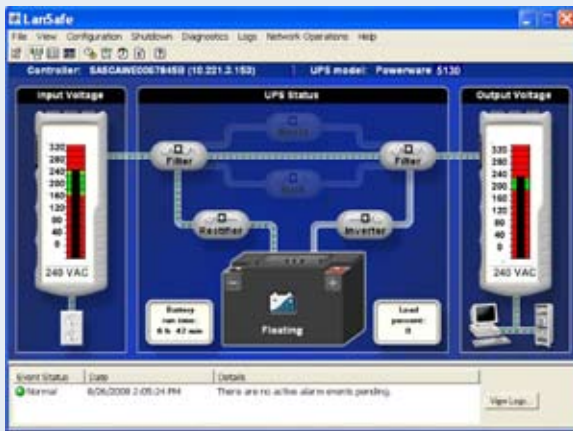


Front panel LEDs



Communication cards

Unified management for power protection and more



LanSafe answers administrators' key questions with an intuitive visual display.

Is input voltage within the acceptable range?

If the power went out right now, how long could the UPS run on battery power?

Is the UPS running on battery power right now?

Are there any active events I need to know about?

Is output voltage within acceptable limits?

What percent of UPS capacity is being used right now?

Is the battery being charged or discharged?

The 5130 comes complete with the Eaton Software Suite CD, including SNMP-compatible power management software. LanSafe® provides control and visibility over multiple UPSs, using an intuitive, graphical interface. From a central vantage point anywhere within the reach of a network connection, you can:

- Establish prioritised shutdown of network devices and client/server applications
- Test all network-connected UPSs from one node
- Analyse trends and power infrastructure conditions
- Stay informed of power problems via email broadcasts to mobile phones or pagers
- Power off an entire UPS and its loads in an emergency

The software suite CD also includes multimedia demonstrations of various other software packages Eaton offers—and a free 30-day trial for you to explore PowerVision® software for UPS performance monitoring/analysis and facility/data centre management.

Low total cost of ownership

- Line-interactive topology for best price to performance ratio
- More real output power for dollar spent
- Pedestal and rail kits included at no extra charge
- UPS monitoring and management software included



Tower pedestals



Rail kits



From Eaton, your trusted ally for power quality

The 5130 is an excellent choice for any application that calls for full-featured power protection in a small package at a budget-conscious price.

Representing more than 50 years of R&D excellence, the new 5130 delivers flexibility—flexibility to meet your unique needs so you can power through any disruption. Eaton will be there with you for the long term with premium warranty coverage and expert technical support.

To find out more, visit our Web site at www.powerware.com.au, or contact us at: 1300 UPS UPS (1300 877 877)



Features

- The 2U model is optimised for rack mounting but is easily deployed as a tower with a provided pedestal. The 3U unit is optimized for tower deployment or short-depth racks.
- With the standard PowerShare feature, you can independently control groups of output receptacles to selectively shed loads during an outage, remotely reboot systems or manage sequential start-ups.
- An optional maintenance bypass module enables the entire UPS to be serviced or replaced without interrupting power to loads.
- Optional external battery modules extend backup runtime up to hours during power outages.
- The ePDU adds more plug-and-play flexibility to free-standing or rack mounted UPSs—the right connections just where you need them.

Communications

- A standard communication slot accepts your choice of interfaces for Web, SNMP, Modbus or serial connectivity—to satisfy most any communications need.
- 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 your 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.

Technical specifications

General

| | |
|----------------------|--|
| LEDs | 13 status-indicating LEDs |
| Topology | Line interactive |
| Diagnostics | Full system self-test at power up |
| Transfer time | 1–4 ms typical |
| R00/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 | 230 Vac |
| Voltage range* | 230V: 160–294V |
| Frequency | 50/60 Hz (auto-sensing) |
| Frequency range | 47–70 Hz for 50 Hz operation |
| Power draw of UPS (full load) | 1250: 5.4A @230V 1750: 7.6A @230V 2500: 10.9A @230V 3000: 13.0A @230V |

Electrical output

| | |
|-------------------------------|---|
| Power factor | 0.9 |
| On utility voltage regulation | 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 |
| PowerShare (Load segments) | Two individually controlled output receptacles |

Battery

| | |
|-----------------------|---|
| Internal battery type | 1250/2500 VA: 12V/7.2 Ah; sealed, lead-acid; maintenance free 1750/3000 VA: 12V/9 Ah; sealed, lead-acid; maintenance free |
| 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) 2500VA: 3 min w/internal batteries @100% load (0.9 PF) 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 ModBus/JBus AS400/Relay card |
| Cables included | - RS-232 and USB 2 metre communications - 2x10Amp IEC to IEC output cable - 15Amp Australian input cable (2.5 & 3kva only) |
| Power management software | Eaton Software Suite CD-ROM (bundled with UPS) |

Environmental

| | |
|-----------------------|--|
| Safety markings | 230V: C-Tick; CE, TUV, cUL, UL |
| Safety conformance | 230V: UL1778, UL 497A (data line only); cUL (CAN/CSA C22.2, No. 107.1); EN 50091-1-1 and IEC 60950 |
| EMC compliance | 230V: EN 50091-2, FCC Part 15 subpart J Class A |
| Operating temperature | 1250 VA: 0°C to +40°C 1750–3000 VA: 0°C to +35°C |
| Storage temperature | -15°C to +50°C |
| 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 |

* The high and low thresholds can be user adjusted using the downloadable UPS Configuration tool.

RACK/TOWER MODELS

| Catalogue Number | Rating (VA/Watts) | Input Connection | Output Receptacles ² | Dimensions H x W x D mm | Weight kg |
|--|-------------------|------------------|----------------------------------|-------------------------|-----------|
| Rack/Tower Models: 230V, 50/60 Hz | | | | | |
| PW5130i1250-XL2U | 1250/1150 | IEC C14-10A | (8) IEC-C13-10A | 87 (2U) x 441 x 509 | 24.3 |
| PW5130i1750-XL2U | 1750/1600 | IEC C14-10A | (8) IEC-C13-10A | 87 (2U) x 441 x 509 | 26.6 |
| PW5130i2500-XL2U ¹ | 2500/2250 | IEC C20-16A | (1) IEC-C19 16A, (8) IEC-C13 10A | 87 (2U) x 441 x 634 | 33.8 |
| PW5130i3000-XL2U ¹ | 3000/2700 | IEC C20-16A | (1) IEC-C19 16A, (8) IEC-C13 10A | 87 (2U) x 441 x 634 | 33.8 |
| PW5130i3000-XL3U ¹ | 3000/2700 | IEC C20-16A | (1) IEC-C19 16A, (8) IEC-C13 10A | 131 (3U) x 441 x 484 | 34.3 |
| Rack/Tower Extended Battery Modules | | | | | |
| PW5130N1750-EBM2U | NA | NA | NA | 87 (2U) x 441 x 509 | 30.4 |
| PW5130N3000-EBM2U | NA | NA | NA | 87 (2U) x 441 x 634 | 41.7 |
| PW5130N3000-EBM3U | NA | NA | NA | 131 (3U) x 441 x 484 | 41.7 |

1. 230V models are adjustable to 150-294V range. 2. All models are equipped with (2) load segments (programmable outlets).

BATTERY BACKUP TIMES (IN MINUTES)*

Rack/Tower Models

| Load (VA/Watts) | Internal batteries | +1 EBM | +2 EBMs | +3 EBMs | +4 EBMs |
|--|--------------------|--------|---------|---------|---------|
| PW5130i1250-XL2U | | | | | |
| 125/115 | 119 | 430 | 741 | 1052 | 1363 |
| 313/288 | 32 | 150 | 267 | 384 | 502 |
| 625/575 | 15 | 58 | 100 | 143 | 185 |
| 938/863 | 6 | 42 | 77 | 113 | 148 |
| 1250/1150 | 5 | 29 | 54 | 79 | 104 |
| PW5130i1750-XL2U | | | | | |
| 175/160 | 80 | 245 | 410 | 575 | 740 |
| 438/400 | 24 | 96 | 168 | 240 | 312 |
| 875/800 | 9 | 36 | 62 | 89 | 115 |
| 1313/1200 | 6 | 24 | 42 | 60 | 79 |
| 1750/1600 | 3 | 16 | 28 | 41 | 53 |
| PW5130i2500-XL2U¹ | | | | | |
| 250/225 | 77 | 300 | 410 | 780 | 1064 |
| 625/563 | 28 | 122 | 207 | 309 | 412 |
| 1250/1125 | 11 | 55 | 100 | 150 | 206 |
| 2153/1938 | 6 | 31 | 59 | 90 | 120 |
| 2500/2250 | 3 | 23 | 42 | 63 | 85 |
| PW5130i3000-XL2U¹ / PW5130i3000-XL3U¹ | | | | | |
| 300/270 | 70 | 242 | 448 | 634 | 820 |
| 750/675 | 24 | 105 | 180 | 255 | 330 |
| 1500/1350 | 10 | 44 | 73 | 101 | 130 |
| 2250/2025 | 5 | 25 | 47 | 69 | 91 |
| 3000/2700 | 3 | 17 | 32 | 47 | 62 |

*Battery backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.



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