

IBM UPS 3000 Uninterruptible Power System Solutions



The IBM UPS 3000 offers choice of rackmount or tower installation.

Highlights

- ***Provides more real wattage in less space with a .9 power factor—protecting more equipment and leaving more room for expansion***
- ***Space-saving 2U form factor for rackmount or tower installations***
- ***Enables prioritized shutdown of non-essential equipment during outages to maximize backup time for critical devices***
- ***Add up to four Extended Battery Modules to provide hours of battery runtime***
- ***Increases uptime with hot-swappable batteries and electronic module***
- ***Ensures data and system integrity with a complete suite of power management software and connectivity options***
- ***Includes ConnectUPS Web/SNMP Interface Card for enhanced UPS monitoring and control***

More power and performance, smaller package and price

Increase the availability and reliability of your business-critical data with the new IBM UPS 3000 uninterruptible power system (UPS). Designed to deliver superior power protection in a compact package, the UPS 3000 offers space-saving designs and innovative features at competitive prices to deliver greater return from your IT investment.

Up to 2700 watts of UPS power is packed into 2 units (2U) of rack space—a mere 3.5 inches high, including batteries. Designed with a .9 power factor, the UPS 3000 delivers more real output power to power more servers than another UPS of equivalent rating. For maximum deployment flexibility, the UPS 3000 can be deployed as a tower unit or in a rack. Up to four Extended Battery Modules can be added to provide additional battery backup capacity as necessary.

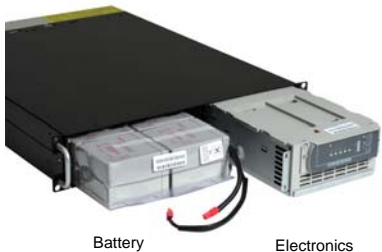
The IBM UPS 3000 family provides the benefits of IBM's renowned service and worldwide support, plus an industry-leading set of innovations and features that are available exclusively from IBM.

Designed for high availability

This innovative UPS solution incorporates design advances that boost uptime and simplify management.

Electronics as well as battery packs are hot-swappable, allowing fast, safe and easy replacement of components.

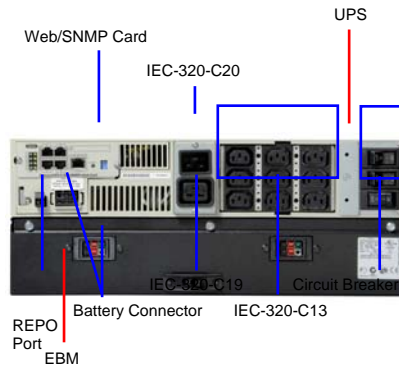
In the rare event that the electronics of a UPS should fail, there is no need to unplug the servers or take them offline to replace the UPS. Simply pull and replace the electronics pack—no need to remove UPS from the rack. Devices stay plugged in, and power sourcing automatically switches to line current and back again to keep systems up and running. This feature is commonly reserved for high-end, higher priced UPS products. Plus the IBM UPS 3000 helps protect your data and IT systems with full-time surge suppression, automatic voltage regulation and noise filtering.



When the batteries reach the end of their useful life or the electronics module fails, replacement is easy. With simple access through the front panel, you can safely install new battery and electronics module without ever powering down the connected server and server options or having to remove the unit from the rack.

Rich power-management solutions

Power management is critical in today's environment. The IBM UPS 3000 comes complete with a suite of easy-to-use software that allows management of the UPS either locally, with the standard serial or USB connectors, or remotely using the built-in 10/100 Network Management Module. The UPS 3000 includes a ConnectUPS Web/SNMP Interface Card to enable direct control and monitoring in SNMP-based networks, plus the ability to monitor UPS status and meters through a Web browser.



You can fine-tune power management and increase battery life even further by selectively powering off non-essential systems. The UPS 3000 segments outlets on the rear panel into three groupings so that you can program how long each connected system runs on battery power during an outage. With this feature, the UPS can selectively switch off outlets powering non-essential systems or non-intelligent devices to increase runtimes for essential applications.

Optional battery packs increase uptime

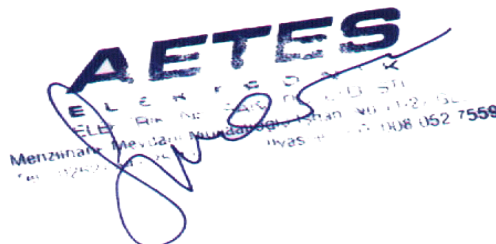
You can attach up to four UPS Extended Battery Modules to the UPS 3000, which means you can now have hours of additional runtime during a power crisis. The Extended Battery Modules are 2U in height and hot-swappable, allowing for the easy addition of run time to any configuration of the UPS 3000.

Flexible design for rack or tower use

The UPS 3000 is a 2U rack-ready UPS product that supports preconfigured shipment in an IBM NetBAY rack. It is also designed for flexibility, allowing you to use the UPS and its external battery packs in a tower configuration for stand-alone installations. Every UPS 3000 and Extended Battery Module option is delivered with the components necessary to complete this rack-to-tower conversion.

A powerful partnership

UPS 3000 products are designed by IBM and manufactured to our demanding specifications by Eaton Corporation, an industry leader in power management and our longtime power management provider. This means you get IBM service, support, warranty, protection and years of experience along with Eaton's knowledge of UPS manufacturing and management software.

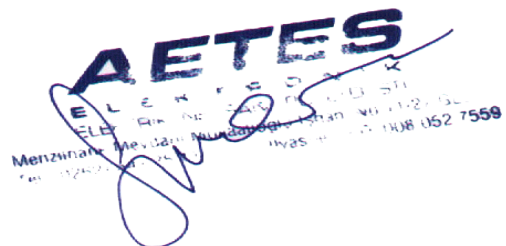


IBM UPS 3000 at a glance

| Model | UPS3000LV | UPS3000JLV | UPS3000HV | UPS3000JHV | | | | | | | | | | |
|-------------------------------|--|---|--|--|-----------------------------|--------------|---------|-------------------------|---------|-----------------------|---------------------|---------------------------|----------------------|---------------------------|
| Part number | 21301RX | 21301JX | 21302RX | 21302JX | | | | | | | | | | |
| Form factor | 2U rack-mountable, with tower conversion kit included; ship-loaded approved | | | | | | | | | | | | | |
| Input Voltage | 110-127V | 100V | 208-240V | 200V | | | | | | | | | | |
| Watts/VA Rating | 2700 / 2880 | 2400 / 2250 | 2700 / 3000 | 2700 / 3000 | | | | | | | | | | |
| Line input | NEMA L5-30P | NEMA L5-30P | Varies. See Line Input Options table below. | NEMA L6-20P (part number 40K9772, ordered separately). | | | | | | | | | | |
| Line output | (6) NEMA 5-15 and (1) NEMA L5-30R | (6) NEMA 5-15 and (1) NEMA L5-30R | (9) IEC-320-C13 and (1) IEC-320-C19 | (9) IEC-320-C13 and (1) IEC-320-C19 | | | | | | | | | | |
| Number of line outputs | Six (plus up to 7 more with NetBay PDU or DPI Rack PDU) | Six (plus up to 7 more with NetBay PDU or DPI Rack PDU) | Nine (plus up to 7 more with NetBay PDU or DPI Rack PDU) | Nine (plus up to 7 more with NetBay PDU or DPI Rack PDU) | | | | | | | | | | |
| Interface ports | RJ-45, RS-232, integrated Network Management Module (RJ-45) | | | | | | | | | | | | | |
| Software included | Software Suite CD | | | | | | | | | | | | | |
| Battery backup times | <ul style="list-style-type: none"> • 1 hot-swappable internal battery provides more than four minutes of run time at a load of 2700W • Supports up to four Extend Battery Modules for approximately 90 additional minutes of runtime at full load. See battery runtime chart on next page. | | | | | | | | | | | | | |
| Weight | 37 kg (82 lb.) | | | | | | | | | | | | | |
| Dimensions (HxWxD) | 89 x 483 x 622 mm 3.5 x 19.0 x 26.9 in. | | | | | | | | | | | | | |
| Color | Black | | | | | | | | | | | | | |
| Warranty¹ | 3-year limited warranty | | | | | | | | | | | | | |
| General features | Emergency power off, hot-swap electronics, optional UPS Extend Run external battery packs (up to four), hot-swap batteries, controllable outlet groups, integrated network management, Advanced Battery Management (ABM®) technology, overload indicator, rack mount, replace-battery indicator, resettable output circuit breakers, status indicator LEDs | | | | | | | | | | | | | |
| Includes | UPS signaling RS-232 cable, rack-mounting support rails, CD with software, user manual | | | | | | | | | | | | | |
| Environmental | Operating Temperature: 0 to 40°C (32 to 104°F) Storage Temperature: -15 to 50°C (5 to 122°F) Relative humidity: 0% to 95% non-condensing Altitude (max.): 3000m (10,000 ft) without derating Audible noise: less than 40 dBA typical | | | | | | | | | | | | | |
| Configuration aid | IBM System x [®] and BladeCenter [™] Power Configurator: http://www.ibm.com/power/configurator | | | | | | | | | | | | | |
| Approvals | <table border="0"> <tr> <td>Safety Certification</td> <td>UL; cUL; NOM</td> <td>UL; cUL</td> <td>TUV/GS; UL; cUL; NOM CE</td> <td>UL; cUL</td> </tr> <tr> <td>EMC Compliance</td> <td>FCC Part 15 Class A</td> <td>FCC Part 15 Class A; VCCI</td> <td>IEC 62040-2, Class A</td> <td>FCC Part 15 Class A; VCCI</td> </tr> </table> | | | | Safety Certification | UL; cUL; NOM | UL; cUL | TUV/GS; UL; cUL; NOM CE | UL; cUL | EMC Compliance | FCC Part 15 Class A | FCC Part 15 Class A; VCCI | IEC 62040-2, Class A | FCC Part 15 Class A; VCCI |
| Safety Certification | UL; cUL; NOM | UL; cUL | TUV/GS; UL; cUL; NOM CE | UL; cUL | | | | | | | | | | |
| EMC Compliance | FCC Part 15 Class A | FCC Part 15 Class A; VCCI | IEC 62040-2, Class A | FCC Part 15 Class A; VCCI | | | | | | | | | | |
| Ship group components | Rail set with rear brace, accessory kit, rack to tower conversion parts, UPS serial cable, UPS cable, EPO cable, four rack jumper cords and one 2.5m C19-C20 PDU cable (HV models only), documentation and software CDs. | | | | | | | | | | | | | |

Line input options for UPS3000XHV

| Option Part Number | Option Part Number |
|--------------------|--|
| 40K9766 | Line cord for Europe |
| 40K9767 | Line cord for the United Kingdom |
| 40K9768 | Line cord for Italy |
| 40K9769 | Line cord for Denmark, Switzerland |
| 40K9770 | Line cord for South Africa |
| 40K9771 | Line cord for Israel |
| 40K9772 | Line cord for U.S., Canada, Japan (NEMA L6-20) |
| 40K9773 | Line cord for Australia, New Zealand |
| 40K9774 | Line cord for China |
| 40K9775 | Line cord for Brazil |
| 40K9776 | Line cord for India |
| 40K9777 | Line cord for Argentina |



| Optional Extended Battery options at a glance | |
|---|---|
| Part Number | 40K9620 (for use with UPS3000XLV and UPS3000XHV) 40K9788 (for use with UPS3000JLV and UPS3000JHV) |
| Form Factor | 2U rack-mountable with tower conversion kit included; ship-loaded approved |
| Battery information and runtimes | <ul style="list-style-type: none"> • 2 hot-swappable battery trays per Extended Battery Module • Each Extended Battery Module supports runtimes of approximately 20 minutes at full load, 40 minutes at half load |
| Weight | 54.9 kg (121 lb.) |
| Dimensions (HxWxD) | Rackmount configuration: 89 x 483 x 622 mm 3.5 x 19.0 x 26.9 in. Tower configuration (with pedestals) |



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| Runtimes for UPS 3000 internal battery and with optional Extended Battery Modules (in minutes) | | | | | |
|--|----------|----------|----------|----------|----------|
| Power | Internal | + 1 EBMs | + 2 EBMs | + 3 EBMs | + 4 EBMs |
| 180W | 65 | 285 | 559 | 787 | 1026 |
| 270W | 57 | 255 | 500 | 704 | 918 |
| 360W | 51 | 225 | 441 | 621 | 810 |
| 450W | 45 | 200 | 392 | 552 | 720 |
| 540W | 40 | 175 | 343 | 483 | 630 |
| 630W | 35 | 150 | 294 | 414 | 540 |
| 720W | 30 | 130 | 255 | 359 | 468 |
| 810W | 26 | 115 | 225 | 317 | 414 |
| 900W | 23 | 100 | 196 | 276 | 360 |
| 990W | 20 | 85 | 167 | 235 | 306 |
| 1080W | 17 | 75 | 147 | 207 | 270 |
| 1260W | 13 | 60 | 118 | 166 | 216 |
| 1440W | 10 | 45 | 88 | 124 | 162 |
| 1710W | 8 | 40 | 78 | 110 | 144 |
| 2070W | 7 | 35 | 69 | 97 | 126 |
| 2340W | 6 | 30 | 59 | 83 | 108 |
| 2700W | 5 | 25 | 49 | 69 | 90 |

Battery runtimes are approximate and may vary according to equipment, configuration, battery age, temperature, etc.

¹ For terms and conditions or copies of the IBM limited warranty, call 1 800 772-2227 in the U.S. and in Canada call 1 800-426-2255. Limited warranty includes International Warranty Service in those countries where this product is offered. Registration is required. Telephone support may be subject to additional charges. For warranties including onsite service, IBM sends a technician after attempting to resolve the problem remotely.

² Battery runtimes are estimates based on testing, actual times may vary with equipment, configuration, battery age, temperature, etc.

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