Hewlett Packard Enterprise

HPE Uninterruptible Power Systems

Maintain uptime

HPE uninterruptable power supplies help you protect uptime and better manage data center power costs for your HPE ProLiant Gen9 servers. As HPE Qualified Options, they are tested and tailored just for HPE servers, storage, and networking to provide better performance and improved reliability. Use this guide to help you select the right one for your needs.

HPE tower uninterruptible power systems

Cost-effective power protection for small office environments

Protect your equipment and critical data against unexpected power disruptions. HPE tower uninterruptible power supplies (UPSs) provide reliable power protection with clean, uninterrupted power for servers, storage, computer equipment, and network environments. Tailored to provide advanced power protection (or increased uptime), the UPS tower form factor has an intuitive front panel display, Enhanced Battery Management (EBM), prioritized shut down, hot-swappable battery, network transient protection, and serial and USB ports for data exchange with a host computer.

HPE Qualified Options

Our rigorous testing process results in:

- **Better performance**—Designed and tested for leading performance
- **Improved reliability**—Tolerance against vibration, thermal, and electrical stresses along with pre-failure notification
- **Tailored for HPE products**—Designed and tested to maximize performance, reliability, and compatibility with HPE server, storage, and networking firmware and operating systems

Key features and benefits

Enhanced performance and flexibility

- Automatic voltage regulation controls output while reducing battery use
- EBM increases the battery service life and lowers total cost of ownership (TCO)
- Three-stage charging technique increases battery service life, optimizes recharge time for quick recovery after power outages, and provides advanced warning of the end of useful battery life
- Hot-swappable battery helps you to safely install a new battery without ever powering down the connected equipment
- USB and serial ports provide robust connectivity

Better manageability

- HPE Power Protector Software facilitates a graceful, remote shut down to make sure all devices are powered down in an orderly manner, saving all work in progress
- Browser-based management console for remote management and monitoring provides simplified deployment, configuration, and management of UPS protected environments
- The intuitive LCD interface provides the status of UPS key parameters, such as input and output voltage, load and battery level, power consumption and estimated runtime

Industry-leading warranty

- Three-year limited warranty is among the longest in the industry, reducing TCO and downtime
- Exclusive 30-day Battery Pre-Failure Warning provides notification from HPE Power Manager software of an impending battery failure
- Your HPE UPS will be covered at the same service level and time period as your HPE server as part of the HPE ProLiant Care Pack Services
- A $250,000 USD load protection guarantee provides additional peace of mind (available in North America only)

Technical specifications: HPE tower UPS

HPE T750 G4 UPS

HPE T1000 G4 UPS

HPE T1500 G4 UPS

Region: model	North America and Japan (NA/JP)	International (INTL)	NA/JP	INTL	NA/JP	INTL
SKUs	J2P85A	J2P88A	J2P86A	J2P89A	J2P87A	J2P90A
Operating voltage[1]	100 V/110 V/120 V	220 V/230 V/240 V	100 V/110 V/120 V	220 V/230 V/240 V	100 V 110 V	220 V/230 V/240 V
Power out	750 VA/500 W 750 VA/525 W	750 VA/525 W	1,000 VA/680 W 1,000 VA/700 W	1,000 VA/700 W	1,200 VA/950 W 1,325 VA/994 W 1,440 VA/1,080 W	1,500 VA/1,050 W
Input connections	Attached six-foot power cord with NEMA 5–15P	(1) IEC 320 C13	Attached six-foot power cord with NEMA 5–15P	(1) IEC 320 C13	Attached six-foot power cord with NEMA 5–15P	(1) IEC 320 C13
Output connections	(6) NEMA 5–15R	(6) IEC 320 C13	(8) NEMA 5–15R	(8) IEC 320 C13	(8) NEMA 5–15R	(8) IEC 320 C14
Load segments	1	1	1	1	1	1
Runtime[2]						
50 percent load	12 minutes	12 minutes	12 minutes	12 minutes	12 minutes	12 minutes
100 percent load	4.5 minutes[3]	4.5 minutes	4.5 minutes[4]	4.5 minutes	4.5 minutes[5]	4.5 minutes

For more details visit the product QuickSpecs: **www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04154342**
Locate which Operating Systems are supported at: **hp.com/products/powermanager**

[1] User selectable via LCD interface.

[2] Estimated battery runtime for typical applications. Actual performance will depend on environmental conditions, ambient temperature, battery age, and other factors. Technical information in this document is subject to change without notice.

[3], [4], [5] 4.0 minutes at 100 V.

Did you know?
All HPE options are automatically covered when you purchase an HPE ProLiant Care Pack for your HPE ProLiant server, reducing total cost of ownership and system downtime.

HPE rackmountable UPS

Power protection for dense data center environments
HPE rackmountable UPSs offer industry-leading power density, with more performance and wattage in less rack space. They also save valuable space for your server and storage equipment while providing unmatched power efficiency to save power and cooling costs in any environment. Remote management compatibility is included with all HPE UPSs and optional Extended Runtime Modules (ERMs) increase battery runtimes for extended outages.

Key features and benefits

Enhanced performance and flexibility
- EBM increases the battery service life, optimizes recharge time for quick recovery after power outages, and provides advanced warning of the end of useful battery life
- Hot-swappable battery helps you to safely install a new battery without ever powering down the connected equipment
- USB and serial ports plus a network communications slot provide robust connectivity
- ERMs let you extend your overall runtime to continue working during prolonged power outages

Better manageability
- HPE Power Protector software provides enterprise-wide intelligent manageability
- HPE Power Protector combined with a UPS Network Module (optional on some models), enables you to remotely monitor and manage your UPS through HPE Systems Insight Manager or via a standard Web browser
- Load segment control gives you the flexibility to schedule shut downs of network equipment to extend the runtime of critical devices
- The LCD interface has a graphical display that allows users to fully control the UPS and provides critical UPS information in a single screen view, including power consumption information and kWh values

Industry-leading warranty
- Three-year limited warranty is among the longest in the industry, reducing TCO and downtime
- Exclusive 30-day Battery Pre-Failure Warning provides notification from HPE Power Manager software of an impending battery failure
- Your HPE UPS will be covered at the same service level and time period as your HPE server as part of the HPE ProLiant Care Pack Services
- A $250,000 USD load protection guarantee provides additional peace of mind (available in North America only)

Technical specifications: HPE rackmountable UPSs

HPE R1500 G4 UPS

HPE R5000 3U UPS

HPE R7000 4U UPS

Region: model	NA	JP/TWN	INTL	NA/JPN, high voltage	INTL, high voltage	NA/JPN, high voltage	INTL, high voltage
SKUs	J2Q99A	J2R05A	J2R03A	AF460A	AF461A	AF462A	AF463A
Operating voltage[6]	120–125 V 100 V	100 V 120–125 V	220 V/230 V/240 V 200 V/208 V	200 V/208 V 220 V/230 V/240 V	200 V/208 V 220 V/230 V/240 V	200 V/208 V 220 V/230 V/240 V	200 V/208 V 220 V/230 V/240 V
Power out	1,440 VA/1,100 W 1,200 VA/900 W	1,200 VA/900 W 1,440 VA/1,100 W	1,550 VA/1,100 W 1,395 VA/990 W	5,000 VA/4,500 W	5,000 VA/4,500 W	7,200 VA/7,200 W	6,500 VA/6,500 W (240 V) 6,300 VA/6,300 W (230 V) 6,100 VA/6,100 W (220 V) 5,600 VA/5,600 W (208 V) 5,400 VA/5,400 W (200 V)
Input connections	NEMA 5–15P 1.8 m cord	NEMA 5–15P 1.8 m cord	C14 inlet (10 A)[7]	L6-30P, 3 m cord	IEC 309 (32 A) 3 m cord	Hubble CS8265C (40 A), 3 m cord	IEC 309-30/32 A, 3 m cord
Output connections	(2) NEMA 5–15R for Critical Loads (2) NEMA 5–15 for LS1 (1) NEMA 5–15 for LS2	(2) NEMA 5–15R for Critical Loads (2) NEMA 5–15 for LS1 (1) NEMA 5–15 for LS2	(3) IEC C13 for Critical Loads (2) IEC C13 for LS1 (1) IEC C13 for LS2	LS1: (2) C19, (2) C13, (1) L6–30R LS2: (2) C19, (2) C13	LS1: (2) C19, (2) C13, (1) IEC 309 (32 A) LS2: (2) C19, (2) C13	LS1: C19 (3), L6–30R LS2: C19 (3), L6–30R	LS1: C19 (3), IEC 309-30/32 A LS2: C19 (3), IEC 309-30/32 A
Load segments	2	2	2	2		2	N/A
Options	AF465A: HPE UPS Network Module L4Q11A: HPE 2U rack/tower UPS Shipping Kit[8]			AF464A: HPE R5KVA and R7KVA 3U ERM AF465A: HPE UPS Network Module L4Q11A: HPE 2U rack/tower UPS Shipping Kit[9]			N/A
Runtime[10]							
20 percent load	34 minutes	34 minutes	34 minutes	44 minutes		42 minutes	
50 percent load	11 minutes	11 minutes	11 minutes	16 minutes		10 minutes	
80 percent load	6 minutes	6 minutes	6 minutes	7 minutes		5 minutes	
100 percent load	4 minutes	4 minutes	4 minutes	5.7 minutes		3 minutes	

For more details visit the product QuickSpecs: **www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04154342**
Locate which Operating Systems are supported at: **hp.com/products/powermanager**

[6] User selectable via LCD interface.

[7] For detachable country-specific power cord.

[8], [9] Required if the UPS/ERM is going to be mounted into a rack that will be shipped via transport. One of these kits is required per unit.

[10] Estimated battery runtime using internal batteries. Backup times are estimated for typical applications. Actual performance will depend on environmental conditions, ambient temperature, battery age, and other factors. Technical information in this document is subject to change without notice.

HPE rack/tower UPSs

HPE rack/tower (R/T) UPS models can be used in a traditional rackmount environment or converted to a tower UPS to support tower servers and other equipment outside of a rack. Support for up to four ERMs allows you to increase battery runtime during a power outage. Standard features include an enhanced front panel display, HPE EBM to easily manage and extend the service life of the batteries, and hot-swappable batteries that can be serviced while the UPS is in operation. HPE Power Protection software (included) and a UPS Network Module (optional) enable you to monitor and manage power through HPE Systems Insight Manager and other SNMP management programs or via a standard Web browser.

Key features and benefits

Enhanced performance and flexibility

- New convertible design can be used as a 2U rackmountable UPS or as a standalone tower UPS
- Increased power density with up to 3,000 VA/2,700 W
- EBM increases the battery service life, optimizes recharge time for quick recovery after power outages, and provides advanced warning of the end of useful battery life
- Hot-swappable battery helps you safely install a new battery without powering down the connected equipment
- Support for up to four ERMs allows you to extend your overall runtime to continue working even during prolonged power outages

Better manageability

- HPE Power Protector Software provides enterprise-wide intelligent manageability
- Two independently controlled load segments give you the flexibility to schedule shut downs of network equipment to extend the runtime of critical devices
- The LCD interface has a graphical display that allows users to fully control the UPS and provides critical UPS information in a single screen view
- Support for the HPE UPS Network Module extends the power management capabilities of the UPS

Industry-leading warranty

- Three-year limited warranty is among the longest in the industry, reducing TCO and downtime
- Exclusive 30-day Battery Pre-Failure Warning provides notification from HPE Power Manager software of an impending battery failure
- Your HPE UPS will be covered at the same service level and time period as your HPE server as part of the HPE ProLiant Care Pack Services
- A $250,000 USD load protection guarantee provides additional peace of mind (available in North America only)

Technical specifications

HPE R/T2200 G4 UPS

HPE R/T3000 G4 UPS

Region: model	NA/JP	NA/JP, low voltage	NA/JP, high voltage	INTL, high voltage
SKUs	J2R00A	J2R01A	J2R02A	J2R04A
Operating voltage	120 V[11] to 125 V/100 V	120 V[12] to 125 V/100 V	208 V[13] to 220 V/ 230 V/240 V/200 V	208 V/220 V/230 V[14]/240 V/200 V
Power out	1,950 VA/1,920 W	3,000 VA/2,700 W	2,490 VA/2,241 W	3,000 VA/2,700 W
Input connections	NEMA 5–20P 20 A 10-foot cord	NEMA L5–30P, 10-foot cord	NEMA L6–20P, 10-foot cord	Detachable IEC C20 inlet plug[15]
Output connections	(8) NEMA 5–20 Receptacles (4) NEMA 5–20 for Critical Load (2) NEMA 5–20 for LS1 (2) NEMA 5–20 for LS2	NEMA L5–30 (2) NEMA 5–20 for Critical load (2) NEMA 5–20 for LS1 (2) NEMA 5–20 for LS2	(1) IEC C19 (4) IEC C13 for Critical Load (2) IEC C13 for LS1 (2) IEC C13 for LS2	(1) IEC C19 (4) IEC C13 for Critical Load (2) IEC C13 for LS1 (2) IEC C13 for LS2
Load segments	2	2	2	2
Options	J2R09A: HPE R/T2200 G4 Extended Runtime Module AF465A: HPE UPS Network Module L4Q11A: HPE 2U Rack/Tower UPS Shipping Kit[16]	J2R10A: HPE R/T3000 G4 Extended Runtime Module AF465A: HPE UPS Network Module L4Q11A: HPE 2U Rack/Tower UPS Shipping Kit[17]		
Runtime[18]				
25 percent load	21 minutes	24 minutes	24 minutes	24 minutes
50 percent load	7 minutes	10 minutes	10 minutes	10 minutes
75 percent load	3.5 minutes	5.5 minutes	5.5 minutes	5.5 minutes
100 percent load	2 minutes	3 minutes	3 minutes	3 minutes

For more details visit the product QuickSpecs: **www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04154342**
Locate which Operating Systems are supported at: **hp.com/products/powermanager**

[11], [12], [13], [14] Factory default setting.

[15] For detachable country-specific power cord.

[16], [17] Required if the UPS/ERM is going to be mounted into a rack that will be shipped via transport. One of these kits is required per unit.

[18] Estimated battery runtime using internal batteries. Backup times are estimated for typical applications. Actual performance will depend on environmental conditions, ambient temperature, battery age, and other factors. Technical information in this document is subject to change without notice.

Resources

HPE Qualified Options
hp.com/go/hpqo

HPE rack and power solutions
hp.com/go/rackandpower

HPE Intelligent Power Discovery
h18006.www1.hp.com/products/servers/rackandpower/powersupplies/ipd/index.html?jumpid=reg_r1002_usen_c-001_title_r0002

HPE Power Advisor Tool
hp.com/go/hppoweradvisor

HPE UPS QuickSpecs
www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04154342

HPE Services

Utilize HPE Technology Services consulting and support to help reap the benefits of today's server technology as you successfully deploy and operate new IT with minimal disruption to your current environment. HPE Technology Services delivers confidence, reduces risk, and helps customers realize agility and stability.

Connect to HPE to help prevent problems and solve issues faster. Our support technology lets you tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

- **HPE Proactive Care Services**—For your BladeSystem servers. We offer two versions, each with flexible hardware and software coverage windows and response times.
- **Proactive Care**—Leverages our innovative remote support technology to help prevent problems, provide rapid access to expertise to stabilize your IT.
- **Proactive Care Advanced**—Designed for servers running business-critical IT. This service expands on our successful Proactive Care service by providing localized account managers who work with you to keep your systems in peak performance, as well as critical event management to quickly address complex issues.
- **HPE Foundation Care** is an economical alternative providing hardware and software support with a simplified choice of coverage windows and response times. This support coverage includes collaborative call management for assistance with leading x86 operating system software.
- **HPE Datacenter Care** is our most flexible service and it supports your entire IT environment to provide the right mix of enhanced call management, proactive services, and hardware and software support you need to manage a solution holistically for maximum control, performance, and simplicity.
- **HPE Education Services** help address the challenge of managing costs and resources while keeping up with the latest technology.

Easily estimate your power requirements

HPE Power Advisor is an easy-to-use tool that estimates data center power requirements for your server and storage configurations so you can select the appropriate power supplies and other system components. Visit **hp.com/go/hppoweradvisor** to see how easy it is.

Learn more at
hp.com/products/ups

Sign up for updates

Hewlett Packard Enterprise

4AA0-6981ENW, October 2016, Rev. 7