Have feedback on QuickSpecs? We're listening

HPE Line Interactive Rack/Tower Uninterruptible Power System QuickSpecs

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Looking for cost-effective power protection for your small office environments?

HPE line interactive, single-phase Rack/Tower and Rackmount Uninterruptible Power System (UPS) solutions can protect up to 10 servers and other devices in both rackmount and desktop IT environments. Standard features include intuitive front panel displays for local management, and HPE Enhanced Battery Management (EBM) that helps to extend the service life of your batteries. HPE Power Protector, a power management software application, combined with a UPS Network Management Module, a support option on all models, enables you to remotely monitor and manage your UPS through HPE Systems Insight Manager or via a standard web browser.

Overview

When you need it, use outstanding HPE support services for your whole data center environment. With HPE Services operational services, have the security of knowing that your HPE Rack/Tower and Rackmount UPS will be covered at the same service level and coverage period as your HPE server. HPE UPSs are backed by a 3-year limited warranty, with the first year including parts and labor. Also, standard on all HPE UPS units is our exclusive 30-day Battery Pre-Failure Warranty, which ensures that when customers receive notification from HPE Power Manager Software that the battery may fail, the battery is replaced free of charge under the warranty. This warranty is offered worldwide.

- Remote access through an optional 1-GbE-based network management card ensures widespread connectivity with most user networks.
- Web-based management applications, HPE Power Protector, allows you to monitor, manage, and control a single Uninterrupted Power Supply both locally and remotely.
- Outlet switching and metering at the load segment allows you to monitor, control, and prioritize access to the Uninterrupted Power Supply's power.
- Protects more devices by providing up to 14% more wattage compared to traditional Uninterrupted Power Supplies.
- HPE Enhanced Battery Management (EBM) technology delivers up to 50% longer battery life.
- Industry leading efficiency of up to 99% helps to ensure minimal power loss and lower power costs.
- Up to 4 extended runtime modules can be simply added to the Uninterrupted Power Supply configuration that extends your Uninterrupted Power Supply by a factor of 15x or more.
- Batteries can be hot-swapped safely without every shutting down IT equipment.

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Overview

Flexible Rackmount and Rack/Tower Models Deliver Cost-Effective Power Protection

Key features

Ease of Use

- Next-generation LCD offers a graphical interface which provides all critical UPS information in a single screen view.
- Up to 4 extended runtime modules can be simply added to the UPS configuration that extend your UPS runtime by a factor of 15x or more.
- Batteries can be hot-swapped safely without ever shutting down IT equipment.

Management

- Remote access through an optional 1GbE-based network management card ensures widespread connectivity with most user networks.
- Web-based management application, HPE Power Protector, allows you to monitor, manage, and control a single UPS, locally and remotely.
- Outlet switching and metering at the load segment level allows you to monitor, control, and prioritize access to UPS power.

Efficiency

- Protects more devices by providing up to 28% more wattage compared to traditional UPSs.
- Enhanced Battery Management (EBM) technology delivers up to 50% longer battery life.
- Industry leading efficiency of up to 99% helps to ensure minimal power loss and lower power costs.

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HPE Rack/Tower UPS models



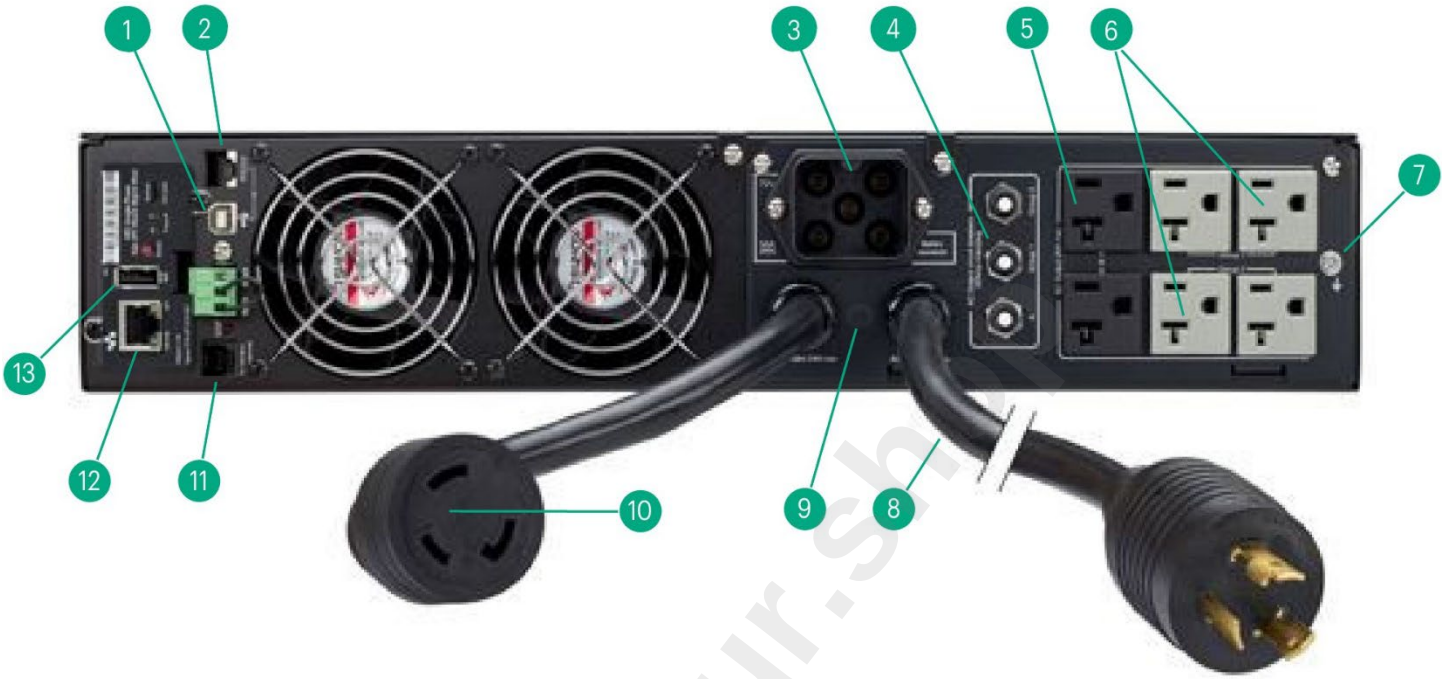
Rack configuration



Tower configuration

Overview

HPE R/T3000 Uninterruptible Power System (UPS)



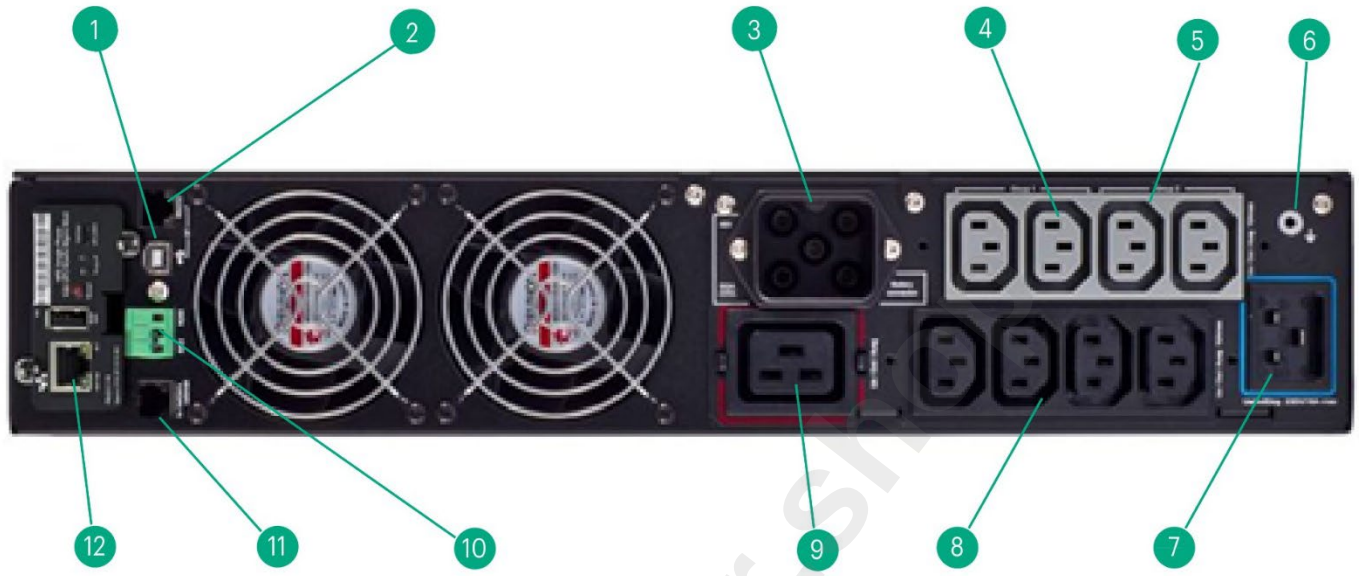
LV NA/JPN rear panel

Item	Description	Item	Description
1.	USB communication port	8.	Attached input power cord for AC power source
2.	RS-232 communication port	9.	LED indicating SWF (site wiring fault) alarm (Although the LED remains on the rear panel, this feature is disabled for low voltage models)
3.	Connector for additional battery module	10.	30A outlet (L5-30R) for connection of equipment
4.	Circuit breakers	11.	Connector for automatic recognition of an additional battery module
5.	Primary Group: outlets for connection of critical equipment	12.	Connector for ROO (Remote On/Off) or RPO (Remote Power Off) control
6.	Four programmable outlets for connection of equipment	13.	Slot for optional communication card, shown with optional Management Card (installed)
7.	Ground connection		

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Overview

HPE R/T3000 Uninterruptible Power System (UPS)



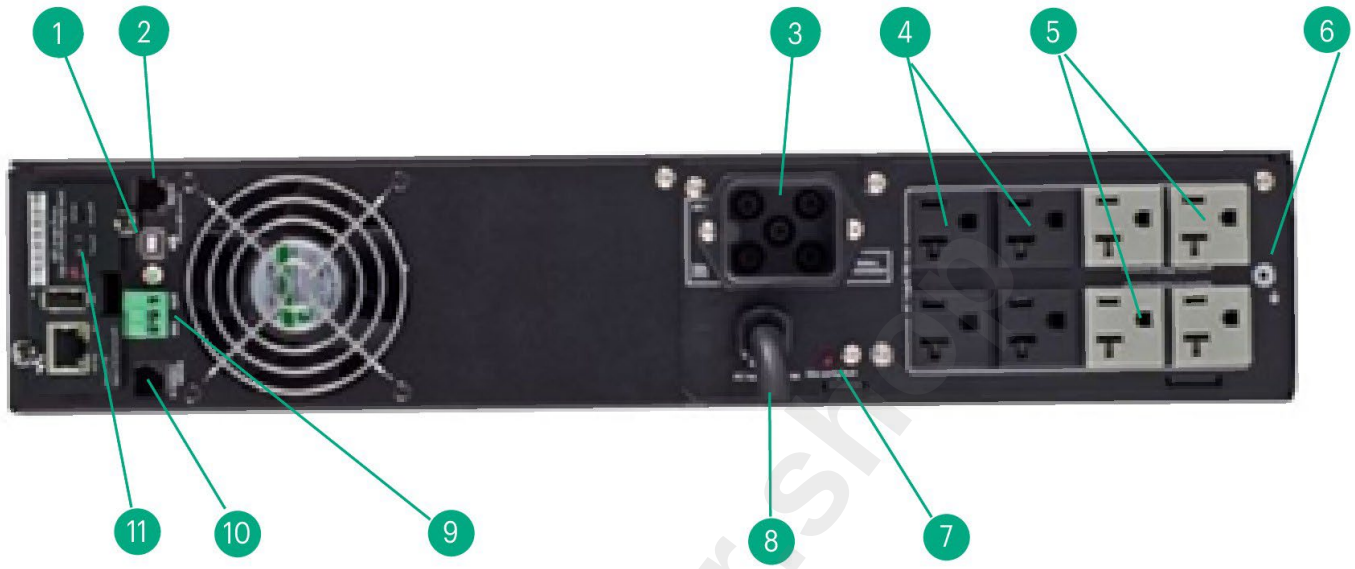
HV NA/JP and INTL rear panel

Item	Description	Item	Description
1.	USB communication port	7.	Inlet for connection to AC power source
2.	RS-232 communication port	8.	Primary Group: 4 outlets for connection of critical equipment
3.	Connector for additional battery module	9.	16A outlet for connection of equipment
4.	Group 1: Two programmable outlets for connection of equipment	10.	Connector for ROO (Remote On/Off) or RPO (Remote Power Off) control
5.	Group 2: Two programmable outlets for connection of equipment	11.	Connector for automatic recognition of an additional battery module
6.	Ground connection	12.	Slot for optional communication card, shown with optional HPE Management Card installed

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Overview

HPE R/T2200 Uninterruptible Power System (UPS)



NA/JPN rear panel

Item	Description	Item	Description
1.	USB communication port	7.	LED indicating SWF (site wiring fault) alarm (Although the LED remains on the rear panel, this feature is disabled for low voltage models)
2.	RS-232 communication port	8.	Attached input power cord for AC power source
3.	Connector for additional battery module	9.	Connector for ROO (Remote On/Off) or RPO (Remote Power Off) control
4.	Primary Group: outlets for connection of critical equipment	10.	Connector for automatic recognition of an additional battery module
5.	Four programmable outlets for connection of equipment	11.	Slot for optional communication card, shown with optional Management Card installed
6.	Ground connection		

What's in the box:

- HPE R/T2200 UPS or R/T3000 UPS
- Rail kit and mounting hardware
- Bezel components
- Output power jump cables (2) for HV North America and International models
- RS-232 communication cable (1)
- USB cable (1)
- Cable locking device for HV North America and International models
- Tower stands
- Documentation

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Overview

HPE R1500 G5 UPS Models



What's in the box

- HPE R1500 UPS
- Rail kit and mounting hardware
- Bezel components
- (2) Output power jump cables (International model only)
- (1) RS-232 communication cable
- (1) USB cable
- Cable locking device (International model only)
- Documentation

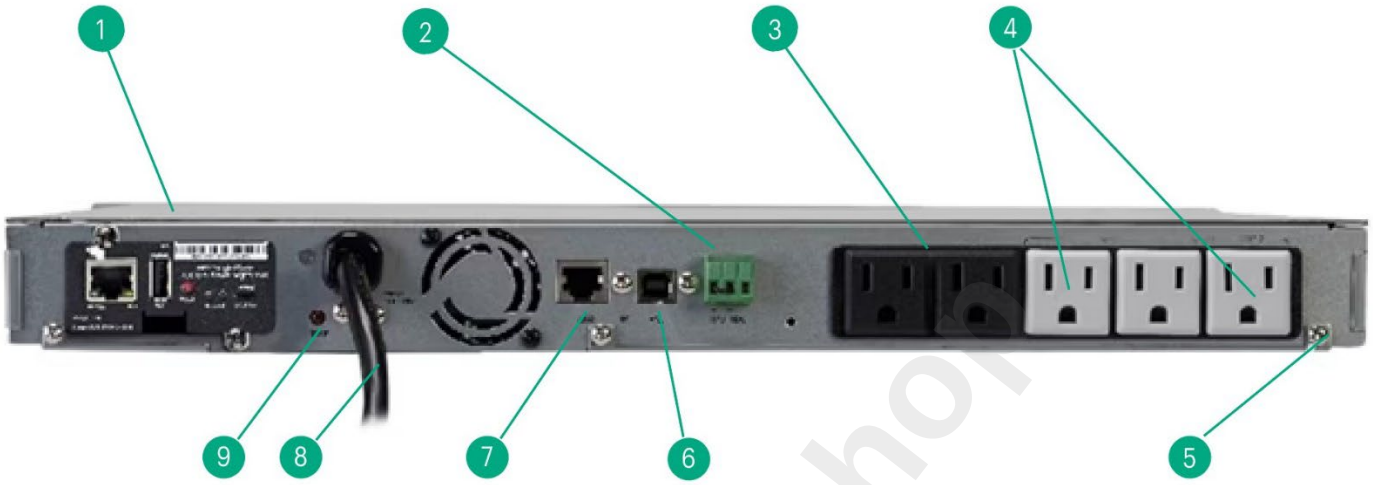
The R1500 G5 UPS regulates the output voltage at -10% / +6% of the selected nominal voltage. The regulation is accomplished by bucking or boosting the input voltage. The voltage regulation operation is governed by the unit's input voltage spec of +/-20%. The unit will regulate at -10% / +6% while within the limits set by the input spec. The unit will go to battery operation upon exceeding the limits set by the input spec. The buck and boost voltage regulation operation, or AVR (Automatic Voltage Regulation), is accomplished by adjusting output transformer tap selections via electromechanical relays. The transformer tap selection is controlled via digital transition voltage set point values programmed in the unit's firmware. These programmed values are without tolerance.

The unit will monitor the input voltage and accept a range of +/-3% of the selected nominal voltage as the target voltage to regulate at -10% / +6%. For example, a unit configured to 120V nominal voltage will regulate at -10% / +6% for any voltage measured between 116.4V and 123.6V. The digital transition voltage set point values will adjust accordingly to regulate to -10% / +6% of the measured input voltage.

Transition set point voltages are subject to a hardware tolerance of +/-3% of the set point value.

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Overview

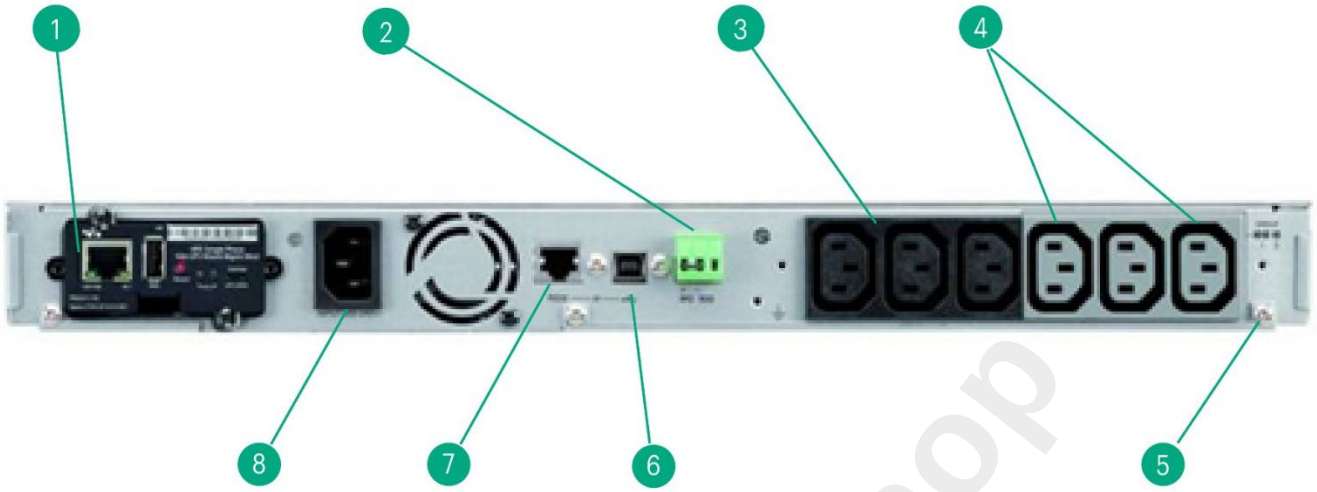


HPE R1500 G5 NA and JP/TWN UPS

Item	Description	Item	Description
1.	Slot for optional communication card; shown with Network Management Card installed	6.	RS-232 Communication Port
2.	Connector for ROO (Remote On/Off) or RPO (Remote Power Off) Control	7.	USB Communication Port
3.	Primary Group: Outlets for connection of critical equipment	8.	Attached 6ft input power cord NEMA 5-15P for AC power source
4.	Programmable outlets for equipment connection	9.	LED indicating site wiring fault alarm
5.	Ground screw		

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Overview



HPE R1500 G5 International UPS

Item	Description	Item	Description
1.	Slot for optional communication card; shown with Network Management Card installed	5.	Ground screw
2.	Connector for ROO (Remote On/Off) or RPO (Remote Power Off) control	6.	RS-232 communication port
3.	Primary Group: Outlets for connection of equipment	7.	USB communication port
4.	Programmable outlets for equipment connection	8.	Input power connection (IEC -320-C14) for powering unit to AC power source

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Overview

XXXXXX**-X21** is SKU designation formed by a common six-digit part number and a **-X21** suffix that identifies a SKU that is available across multiple server family lines. Refer to the table below to find the SKU suffix that applies to the specific server product line this option can be ordered with.

-B21	-H21	-K21
COMPUTE Server Line	**SPECIALIZED COMPUTE Server Line**	**STORAGE Line**
HPE Cloudline CL2100/CL2200/CL2800/CL3100/CL4100/CL5200/CL5800 Servers HPE Composable Cloud for ProLiant DL HPE ProLiant BL460c/BL660c Servers HPE ProLiant DL20/DL160/DL180 Servers HPE ProLiant DL325/DL360/DL380/DL385/DL560/DL580 Servers HPE ProLiant DX360/DX380 Servers HPE ProLiant MicroServer HPE ProLiant for Microsoft Azure Stack HPE ProLiant ML30/ML110/ML350 Servers HPE Synergy 480/660 Systems HPE ProLiant DX170r/DX190r, DX2000 Servers HPE ProLiant DX560 Gen10 server HPE ProLiant DX4200 Gen10 server	HPE Apollo 35/40/70 Systems HPE Apollo 2000/6000 Servers HPE XL170r/XL190r/XL270d (Apollo 6500) Gen10 Server for BlueData Software HPE Converged System 300/500/700/750 HPE Edgeline Systems and Servers HPE Integrity BL860c i6/BL870c i6/BL890c i6 Server Blades HPE Integrity MC990 X Server HPE Integrity rx2800 i6 Server HPE Integrity Superdome HPE SGI 8600 System HPE Solutions for SAP HANA (TDI)	HPE Apollo 4200 Gen9/Gen10 Servers HPE Apollo 4200 Gen10 LFF Server for BlueData Software HPE Apollo 4510 Gen10 System HPE D2220sb/D2500sb Storage Blade HPE D3000/D6020/D8000 Disk Enclosures HPE Scalable Object Storage with Scality RING HPE SimpliVity 2600 HPE SimpliVity 325/380 Gen10 HPE Storage File Controllers HPE StoreEasy 1460/1560/1650/1660/1860 Disclaimer: This may not be a complete listing of applicable servers

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Standard Features

HPE Power Management

HPE Power Protector Software

HPE Power Protector is a web-based application that enables administrators to manage an HPE UPS from a browser-based management console. Administrators can monitor, manage, and control a single UPS locally and remotely. A familiar browser interface provides secure access to the UPS Administrator Software and UPS Client Software from anywhere on the network. Administrators may configure power failure settings and define UPS load segments for maximum uptime of critical servers. The UPS can also be configured to extend runtimes for critical devices during utility power failures. For most UPSs, the receptacles on the rear panel are divided into one or more groups, called load segments, which can be controlled independently. By shutting down a load segment that is connected to less critical equipment, the runtime for more critical equipment is extended, providing additional protection.

- UPS power management via HPE Power Protector available via free download from HPE.com.
- Allows for local or network-based UPS monitoring, status updates, and control over shutdown communications.
- Download to other servers or IT devices to create “clients” that can be configured for graceful shut down.
- Access the HPE Power Protector user interface via a USB or serial connected server (proxy server) or through the optional 1GbE Network Management Card.

Increase stability and security in your data center

HPE Power Protector gives you the ability to establish power failure policies and automatically respond 24×7 to power faults or security risks without IT administrators present. Prioritize shutdowns in the event of a power failure to ensure that your data and hardware are fully protected. Delay restart based on defined load segments after a shutdown to sequence the startup of system components and perform UPS diagnostics to ensure the availability of adequate battery backup times.

Simplify management of UPS functions

Simple, effective management of environments, one UPS at a time. For users wanting ease of use, this is the tool to use. From load segmentation to power down prioritization and alert management, this tool offers everything needed from a single console. It even offers remote access via a web browser with secure SSL authentication. Simple, easy to read status "gauges" offer monitoring at a glance.
See HPE Power Protector QuickSpecs for more information.

Supported Operating Systems

Similar to hardware support, HPE Power Protector is designed to support a wide array of operating systems, spanning Microsoft Windows, Linux, UNIX, and virtual platforms.

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UPS Network Management Module

The HPE UPS Network Module enables you to monitor and manage power environments through comprehensive control of HPE UPSs. The HPE UPS Management Module can support either a single UPS configuration or provide additional power protection with support for dual redundant UPS configuration for no-single-point-of-failure. The additional serial ports will provide greater power management control and flexible monitoring.

The management module can be configured to send alert traps to HPE Systems Insight Manager and other SNMP management programs or used as a standalone management system. This flexibility enables you to monitor and manage UPSs through the network. To facilitate day-to-day maintenance tasks, the embedded management software provides detailed system logs.

The HPE UPS Network Module provides remote management of a UPS by connecting the UPS directly to the network. Configuration & Management of the UPS from anywhere and at any time via a standard web browser.
Notes: For more information on the UPS Network Module please see:
http://www.hpe.com/info/rackandpower.

Warranty

When you need it, use outstanding HPE support services for your whole data center environment. With HPE Services operational services, have the security of knowing that your HPE UPS will be covered at the same service level and coverage period as your HPE server. HPE UPSs are backed by a 3-year limited warranty, with the first year including parts and labor. Also, standard on all HPE UPS units is our exclusive 30-day Battery Pre-Failure Warranty, which ensures that when customers receive notification from HPE Power Manager Software that the battery may fail, the battery is replaced free of charge under the warranty. This warranty is offered worldwide.
Notes: $250,000 Computer/Load Protection Guarantee is also provided (applicable in North America only).

The HPE UPS is covered by a three-year warranty, with the first year including parts and labor. Also, standard on all HPE UPS units, is our exclusive Battery Pre-Failure Warning, which extends the advantage of a HPE three-year, limited warranty by applying it to the battery before it actually fails. This warranty is offered worldwide. Specifically, the Battery Pre-Failure Warning ensures that when customers receive notification from HPE Power Management Software that the battery may fail, the battery is replaced free of charge under the warranty.
Notes: $250,000 Computer/Load Protection Guarantee is also provided in North America, in addition to the HPE three year, limited warranty.

Warranty Upgrade Options:

- Response - Upgrade on-site response from next business day to same day 4-hours
- Coverage - Extend hours of coverage from 5 days x 9 hours to 7 days x 24 hours
- Duration - Select duration of coverage for a minimum period of 1 year or multiple years

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Service and Support

For the most up-to-date information on HPE Services, please refer to the HPE Services – Supplemental QuickSpecs, which provides a comprehensive and regularly updated overview of available services.

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Configuration Information

Rack/Tower UPS Models

HPE R/T3000 Gen5 Low Voltage NA/JP UPS	Q1L85A
HPE R/T3000 Gen5 High Voltage INTL UPS	Q1L87A

UPS Network Management Module

HPE Single Phase 1Gb UPS Network Management Module	Q1C17A

Extended Runtime Module (ERM)

HPE Extended Runtime Modules increase the available runtime for the larger rack mounted UPS units to allow customers to ensure all of their applications can be gracefully shutdown in the event of a power failure.

HPE R/T3000 G4 Extended Runtime Module	J2R10A

2U R/T UPS ERM Shipping Kit

HPE 2U Rack/Tower UPS Shipping Kit	L4Q11A

Notes: The optional 2U shipping kit consists of heavy duty rails, front and back CTO brackets and required mounting hardware for attaching the UPS or ERM to the rack. This kit is an option that is required if the UPS, the ERM, or both will be mounted in a rack that is shipped via transport. One of these kits is required per unit, whether UPS or ERM.

HPE Services operational services

HPE Install Universal Power Supply 3KVA to Below 6KVA Service	U4693E
HPE Install Universal Power Supply Less Than 3KVA Service	U4690E

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Technical Specifications

Operating system HPPP (Client & Admin)						
		Service Pack	Platform	HPPP		HPNMC
				Admin	Client	NMC
Microsoft Windows						
Windows Server 2016	Standard, Data Center, Core			Tested	Tested	Tested
Windows Server 2012	Standard, Data Center, Core		x64	Supported	Supported	Supported
Windows Server 2012 R2	Standard, Data Center, Core		x86, x64	Tested	Tested	Tested
Windows Server 2008 R2	Standard, Data Center, Core	SP1	x64, IA64	Tested	Tested	Tested
Windows Server 2008	Standard, Data Center, Core	SP2	x86, x64, IA64	Supported	Supported	Supported
Windows Server 2003 R2	Standard, Data Center, Core			Not supported	Not supported	Not supported
Windows 10	Enterprise, Pro		x64	Tested	Tested	Tested
Windows 8.1	Enterprise, Pro		x64	Tested	Tested	Tested
Windows 8	Enterprise, Pro		x86, x64	Supported	Supported	Supported
Windows 7	Professional, Ultimate, Standard	SP1	x86, x64	Tested	Tested	Tested
Windows XP	Professional	SP3		Not supported	Not supported	Not supported
Linux						
Red Hat Enterprise Linux	7.3		x86, x64	Tested	Tested	Tested
	7.2		x86, x64	Tested	Tested	Tested

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Technical Specifications

	6.7		x86, x64	Tested	Tested	Tested
	6.6		x86, x64	Supported	Supported	Supported
	5.11		x86, x64	Tested	Tested	Tested
	5.10		x86, x64	Supported	Supported	Supported
	5.7		x86, x64	Not supported	Not supported	Not supported

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Technical Specifications

Operating system HPPP (Client & Admin)						
		Service Pack	Platform	HPPP		HPNMC
				Admin	Client	NMC
SUSE Linux Enterprise Server/Novell	Fedora Core 15		x86, x64	Not supported	Not supported	Not supported
	Fedora Core 14		x86, x64	Not supported	Not supported	Not supported
SUSE Linux Enterprise Server/Novell	12	SP2	x86, x64, IA64	Tested	Tested	Tested
	11	SP3	x86, x64, IA64	Tested	Tested	Tested
	OpenSUSE 13.0		x86, x64	Not supported	Not supported	Not supported
	OpenSUSE 12.3		x86, x64	Not supported	Not supported	Not supported
Virtual environments						
VMware	ESXi 6.5		X86, IA64		Tested	Tested
	ESXi 6.0	U1	X86, IA64		Tested	Tested
	ESXi 5.5	U3	X86, IA64		Tested	Tested
	ESXi 5.1 (pay version only)	U1			Supported	Supported
	ESXi 5.0 (pay version only)	U1			Supported	Supported
	ESX 4.1 (pay version only)	U1			Not supported	Not supported
	ESXi 4.1 (pay version only)	U1			Not supported	Not supported
	ESX 4.0 (pay version only)	U1			Not supported	Not supported
	ESXi 4.0 (pay version only)	U1			Not supported	Not supported

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Rack/Tower models

HPE R/T2200 G5 UPS					
Part Number	**Operating Voltage**	**Default Voltage Setting**	**Power Out (VA/Watts)**	**Input Connection**	**Output Connection**
Q1L84A NA/JP	120V to 125V	120V	1920/1920	NEMA 5-20P 20A, 3m cord	(8) –NEMA 5-20 Receptacles, (4) Primary Group (2) Load Group 1 (2) Load Group 2
	100V		1500/1400		

HPE R/T3000 G5 UPS Models					
Part Number	**Operating Voltage Settings**		**Power Out (VA/Watts)**	**Input Connection**	**Output Connection**
Q1L85A LV NA/JP	120V[1] to 125V	120V	2880/2700	L5-30P, 2.4m cord	(6) NEMA 5-20R (1) NEMA L5-30 which includes (2) Primary Group 5-20R and (1) L5-30, (2) Load Group 1 5-20R and (2) Load Group 2 5-20R
	100V		2490/2250		
Q1L86A HV NA/JP	208V[1]	200V	3000/2700	L6-20P, 2.4m cord	(8) IEC C13 (1) IEC C-19 which includes (4) Primary Group IEC C13 and (1) IEC C19, (2) Load Group 1 IEC C13 and (2) Load Group 2 IEC C13
	200V		2490/2241		
Q1L87A HV INTL	208V to 240V	230V	3000/2700	Detachable IEC C-20 inlet plug for attaching country specific power cord	(8) IEC C13 (1) IEC C-19 which includes (4) Primary Group IEC C13 and (1) IEC C19, (2) Load Group 1 IEC C13 and (2) Load Group 2 IEC C13
	200V		2490/2241		

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Technical Specifications

Operating system HPPP (Client & Admin)						
		Service Pack	Platform	HPPP		HPNMC
				Admin	Client	NMC
Microsoft	Windows Hyper-V Server 2012	R2		N/A	Supported	Supported
	Windows Hyper-V Server 2008	R2	X86, IA64		Supported	Supported
Xen	Citrix XenServer 6.0				Supported	Supported
	Citrix XenServer 5.6		IA64		Supported	Supported
	OpenSource Xen 2.6 on RHEL 5			Not supported	Not supported	Not supported
	OpenSource Xen 3.2 on Debian 5			Not supported	Not supported	Not supported
KVM	KVM 17 Linux 2.6.21 kernel			Not supported	Not supported	Not supported

Notes: For x86-64 and IA-64 architectures and on Microsoft Windows systems and HP-UX for IA-64, HPE Power Protector will work in 32-bit compatibility mode. This implies that no native ports for these architectures will be made for these systems; the only exception is for components that strictly require native ports, such as device drivers.

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Technical Specifications

R/T2200 and R/T3000 UPS Specifications		
Electrical Input	**Voltage Range**	100V nominal = 80V – 128V 120V nominal = 89V – 159V 208V nominal = 160V – 163V 230V nominal = 160V – 294V See Model Matrix for nominal and user selectable voltage settings.
	Frequency	50/60 Hz
	Online Efficiency	94%
Electrical Output	**On battery Regulation**	±5% of nominal voltage
	Online Regulation	-10% to +6% of nominal voltage
	Voltage Wave Form	Sine wave
	Connections	See Model Selection Matrix; divided into 2 Load Segments
	Output protection	Firmware overload sensing and control
Battery	**Type**	Maintenance-free, sealed, valve-regulated lead acid (VRLA)
	Extended Batteries	Up to four ERMs can be supported; recommendation is up to 2
	Backup Time	See Backup Times Chart
	Recharge Time	<3 hours to 90% usable capacity; <24 hours for complete recharge
	Voltage	R/T2200 = 48V R/T3000 = 72V
Communications	**Serial Ports**	Standard DB-9 and USB ports (ships with communication cables)
	Option Slot	(1) (For optional Communication Card)
	Option Cards	HPE UPS Network Management Module (sold separately)
	LCD Interface	LED Display integrated into front panel
	Management Software	Power Management including HPE Power Protector software. See HPE Power Protector QuickSpecs for more information.

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Technical Specifications

R/T2200 and R/T3000 UPS Specifications		
Environmental and Safety	**Operating Temperature**	0°C to 40°C (32°F to 104°F); Long-term use at higher temperature will reduce battery life 25°C (77°F)
	Non-operating Temperature	-15°C to 50°C (5°F to 122°F)
	Operating Humidity	0% to 90% (non-condensing)
	Storage Humidity	0% to 90%
	Operating Altitude	Up to 6,562 ft (2000 m) above sea level
	Audible Noise	<40dB in normal operation. <45dBA on battery operation
	Safety Markings	UL/cUL CE, TUV, C-tick, CES, EAC, VCCI, GS, KC, EK, BSMI, TIS, BIS
	Safety Certifications	UL1778; UL60950, CSA22.2 No.107.1, No.107.3; CB Bulletin IEC62040-1; IEC 60950-1; EN60950-1; EN 62040-1; EN 61000-3-2+A1 +A2; EN 61000-3-3
	EMC Markings	FCC-A; CISPR 22; VCCI A; CE, BSMI, C-TICK
	Emissions	FCC CFR 47, Part 15 Class A, EN50091-2
	Immunity	EN 55024; EN 50091-2 consisting of IEC 61000-4-2 thru IEC 61000-4-6; IEC 61000-4-11
	Surge Suppression	Conforms to IEEE 587B and ANSI C62.41
	RPO/ROO Port	The Normally Closed (NC) RPO shuts off power to all UPS outlets when opened. The UPS must be manually restarted once the terminals are closed again. There is a preinstalled jumper in the RPO terminals. The Normally Open (NO) ROO initiates a UPS Power On function when closed. Opening the terminals again will shut off the UPS.
R/T2200 G5 Weights and Dimensions	**Unit Dimensions (LxWxH)**	20.55 x 17.36 x 3.39 inches / 522 x 441 x 86.2 mm
	Shipping Dimensions (LxWxH)	36.26 x 23.23 x 11.02 inches / 921 x 590 x 280 mm
	Unit Weight	65.28 lbs/29.61 kg
	Shipping Weight	83.62 lbs / 37.93 kg
R/T3000 G5 Weights and Dimensions	**Unit Dimensions (LxWxH)**	25.47 x 17.4 x 3.4 in / 647 x 441x 86.2 mm
	Shipping Dimensions (LxWxH)	36.26 x 23.23 x 11.02 inches / 921 x 590 x 280 mm
	Unit Weight	87.17 lbs / 39.54 kg
	Shipping Weight	107.48 lbs / 48.75 kg

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Technical Specifications

PE R1500 G5 UPS		
Electrical Input	**Voltage Range**	± 15% of nominal 100 and 120V models and ± 20% of nominal on 230V models. See Model Matrix for nominal and user selectable voltage settings via LCD Front Display Panel
	Frequency	50/60 Hz ± 5Hz (auto sensing at default voltage)
	Online Efficiency	92%
Electrical Output	**Online Regulation**	-10% to +6% of nominal voltage*
	On battery Regulation	-10% / + 6% of nominal voltage
	Voltage Wave Form	Sine wave
	Connections	See Model Matrix; divided into 3 Groups
	Output Protection	Firmware overload sensing and control
Battery	**Type**	Maintenance-free, sealed, valve-regulated lead acid (VRLA)
	Backup Time	See Backup Times Chart
	Recharge Time	<3 hours to 90% usable capacity; <24 hours for complete recharge
	Voltage	36V Battery String
Communications	**Ports**	Standard DB-9 port (Kit ships with cable for communication) USB port (Kit ships with cable for communication)
	Option Slot	(1) (reserved for Optional Network Management Module)
	Option Cards	HPE UPS Network Management Module (sold separately)
	LCD Indicators	LED display integrated into the front panel
	Management Software	Power Management including HPE Power Protector software. See HPE Power Protector QuickSpecs for more information.
Environmental and Safety	**Operating Temperature**	32° to 104°F (0° to 40°C) (with battery)
	Non-operating Temperature	-15° to 122°F (-26° to 50°C)
	Operating Humidity	0% to 90% (non-condensing)
	Storage Humidity	0% to 90% (non-condensing)
	Operating Altitude	up to 2000 meters above sea level
	Audible Noise	<40dB (at 1m from surface of unit) <45dBA on battery operation
	Safety Markings	UL/cUL CE, TUV, C-tick, CES, EAC, VCCI, GS, KC, EK, BSMI, TIS, BIS
	Safety Certifications	UL1778; UL60950, CSA22.2 No.107.1,No.107.3,; CB Bulletin IEC62040-1; IEC 60950-1; EN60950-1;EN 62040-1; EN 61000-3-2+A1 +A2; EN 61000-3-3
	EMC Markings	FCC-BCISPR 22; VCCI B; CE, BSMI, C-TICK
	Emissions	FCC CFR 47, Part 15 Class A, EN50091-2
	Immunity	EN 55024; EN 50091-2 consisting of IEC 61000-4-2 thru IEC 61000-4-6; IEC 61000-4-11
	Surge Suppression	Conforms to IEEE 587B and ANSI C62.41
	RPO/ROO Port	The Normally Closed (NC) RPO shuts off power to all UPS outlets when opened. The UPS must be manually restarted once the terminals are closed again. There is a preinstalled jumper in the RPO terminals.

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Technical Specifications

		The Normally Open (NO) ROO initiates a UPS Power On function when closed. Opening the terminals again will shut off the UPS.
Unit Dimensions (LxWxH)	21.8x 17.2x 1.69 in (554 x 438 x 43 mm)	
Shipping Dimensions	30.71x 22.8 x6.1 in (780 x 580 x 155 mm)	
Unit Weight	39.06 lbs (19.72 kg)	
Shipping Weight	54.45 lbs (24.7 kg)	

Rack model

HPE R1500 G5 UPS					
Part Number	**Operating Voltage Settings**	**Default Voltage Setting**	**Power Out (VA/Watts)**	**Input Connection**	**Output Connection**
Q1L88A NA	120V to 125V	120V	1440/1100	NEMA 5-15P	(5) 5-15P which includes: (1) Primary Group 2x 5-15P; (2) Load Groups: Group 1 2x 5-15P and Group 2 1x 5-15P
	100V		1200/900		
Q1L89A JP/TWN	100V	100V	1200/900	NEMA 5-15P With Taiwan approval	(5) IEC C13 which includes: (1) Primary Group 2x IEC C13; (2) Load Groups: Group 1 2x IEC C13 and Group 2 1x IEC C13
	120V[1] to 125V		1440/1100		
Q1L90A INTL	220V/230V/240V	230V	1550/1100	C14 inlet for attaching country specific power cord	(6) IEC C13 which includes: (1) Primary Group 3x IEC C13; (2) Load Groups: Group 1 2x IEC C13 and Group 2 1x IEC C13
	200V to 208V		1395/990		
Notes: Voltage is user selectable via LCD Front Display Panel.					

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Estimated Runtime with Extended Runtime Module (ERM)

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

R/T2200 G5 UPS						
Power		Estimated Runtime (min)				
Load %	Watts	Internal Batteries	1 ERM	2 ERMs	3 ERMs	4 ERMs
10	191.1	80.1	286.9	491.0	725.3	898.3
20	382.2	30.5	122.9	217.7	311.0	406.2
30	573.3	17.3	74.9	135.3	189.5	255.4
40	764.4	11.6	52.7	96.5	133.3	183.7
50	955.5	8.5	40.1	74.3	101.5	142.3
60	1146.6	6.6	32.1	60.0	81.2	115.5
70	1337.7	5.3	26.6	50.1	67.3	96.8
80	1528.8	4.4	22.6	42.8	57.2	83.1
90	1719.9	3.7	19.5	37.3	49.5	72.6
100	1911	3.2	17.2	32.9	43.5	64.3

R/T3000 G5 UPS						
Power		Estimated Runtime (min)				
Load %	Watts	Internal Batteries	1 ERM	2 ERMs	3 ERMs	4 ERMs
10	270	61.4	281.0	474.6	665.5	859.7
20	540	27.7	126.5	219.4	311.4	404.5
30	810	17.4	79.3	139.7	199.8	260.2
40	1080	12.5	57.0	101.4	145.8	190.3
50	1350	9.6	44.1	79.1	114.1	149.3
60	1620	7.8	35.7	64.6	93.5	122.4
70	1890	6.5	29.9	54.4	79.0	103.5
80	2160	5.6	25.7	46.9	68.2	89.5
90	2430	4.9	22.4	41.1	60.0	78.8
100	2700	4.3	19.8	36.6	53.4	70.3

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Technical Specifications

R/T3000 G5 UPS High Voltage						
Power		Estimated Runtime (min)				
Load %	Watts	Internal Batteries	1 ERM	2 ERMs	3 ERMs	4 ERMs
10	270	83.3	259.1	456.9	655.5	853.5
20	540	31.4	121.8	219.2	316.8	414.0
30	810	17.7	78.3	142.7	207.1	271.1
40	1080	11.8	57.2	105.2	153.2	200.8
50	1350	8.6	44.9	83.0	121.2	159.1
60	1620	6.7	36.8	68.4	100.1	131.5
70	1890	5.4	31.1	58.1	85.2	112.0
80	2160	4.4	26.9	50.5	74.0	97.4
90	2430	3.8	23.6	44.5	65.4	86.1
100	2700	3.2	21.1	39.8	58.6	77.2

R1500 G5 UPS Estimated Runtime		
Load %	Watts	Estimated Runtime (min)
10	109	97
20	219	39
30	328	23
40	438	16
50	547	12
60	656	10
70	766	8
80	875	7
90	985	6
100	1094	5

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Summary of Changes

Date	Version History	Action	Description of Change
21-Sep-2026	Version 9	Changed	QuickSpecs maintenance updates.
16-Feb-2026	Version 8	Changed	New branding applied to document.
07-Mar-2022	Version 7	Changed	Technical Specifications Section was updated.
15-Nov-2021	Version 6	Changed	Service and Support Section was updated.
15-Jun-2020	Version 5	Changed	Battery Information was updated.
06-May-2019	Version 4	Changed	Models Section was updated.
01-Oct-2018	Version 3	Changed	Overview, Models and Related Options were updated.
02-Jul-2018	Version 2	Changed	Models Section was updated.
02-Apr-2018	Version 1	New	New QuickSpecs.

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