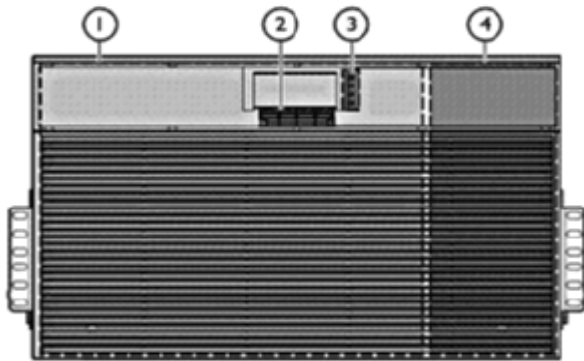


### Overview

## HPE Rackmountable 3 Phase Uninterruptible Power Systems (UPS R8000/3 and R12000/3)

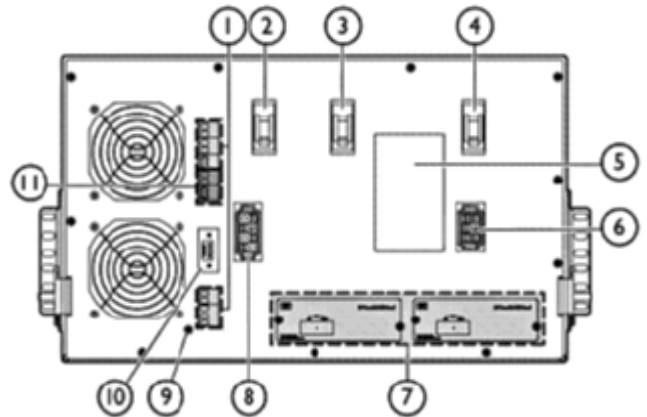
Crowded data centers and racks filled to capacity with storage devices, monitors, servers, communications devices, and other equipment are driving the need for uninterruptible power with increased power density and power efficiency. The HPE 3 Phase Uninterruptible Power Systems provide just that. These rack-mountable Uninterruptible Power Systems provide up to 12,000 watts (W) of power in a 6-U rack form factor. This equates to 2 KW per U space, which leads the industry in power density. The UPS R8000/3 and the R12000/3 use digital signal processing and a new On-line On Demand hybrid technology to answer the demands for increased power density and power efficiency.

On-line On Demand combines the efficiency of a line interactive UPS, up to 97%, with the stability of a double conversion on-line UPS when power fluctuates beyond acceptable limits. Hot swappable batteries and electronics modules and an automatic bypass reduce MTTR (mean time to repair) - down time in the event service is needed.



**UPS R8000/3 and R12000/3 front view**

1. Battery compartment (behind bezel)
2. Menu navigation buttons
3. Status and alarm LED display
4. Electronics module compartment (behind bezel)



**UPS R8000/3 and R12000/3 rear view**

1. Communications terminal block
2. Output circuit breaker
3. Input circuit breaker
4. Battery circuit breaker
5. Input/output location R8000/3, input location R12000/3 1
6. ERM connector
7. Option card slots
8. Output connector R12000/3
9. Ground bonding screw
10. DB9 Service port
11. REPO port

### Overview

#### Models

##### **HPE R8000/3**

HPE R8000/3 8000kVA Three Phase NA 6U Rackmount Uninterruptible Power System AF431A

HPE R8000/3 8000kVA Three Phase INTL 6U Rackmount Uninterruptible Power System AF432A

##### **HPE R12000/3**

HPE R12000/3 12000VA Three Phase NA 6U Rackmount Uninterruptible Power System AF429A

HPE R12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System AF430A

### Standard Features

#### Key Features

- Unity Rated, volt amperage out equals wattage out
- Highest wattage per U space. Up to 12000 VA/12KW in only 6U
- Industry leading efficiency with On-line On Demand hybrid technology
- Attached line cords for easier and faster connection to your facility power
- Hot-swappable battery and electronics modules provide ease of maintenance and faster time to repair (MTTR)
- Industry leading efficiency with On-line On Demand hybrid technology
- Attached line cords for easier and faster connection to your facility power
- Extra-long battery life with Enhanced Battery Management (EBM)
- Extended battery run time with optional Extended Runtime Modules (ERMs)
- Easy configuration through enhanced front panel display or HPE UPS Management Module (included)
- Backed by a limited three-year warranty, the Hewlett Packard Enterprise pre-failure warranty and a load protection guarantee in North America

---

#### Superior Battery Management

HPE UPS HPE 3 Phase UPS incorporates Enhanced Battery Management: an exclusive, patented technology that doubles battery service life, optimizes battery recharge time, and provides advance notice of pending battery failure. With Enhanced Battery Management, you have a lower total cost of ownership and receive the best in the industry protection for your critical equipment.

---

#### Ease of serviceability through hot-swappable batteries and electronics modules.

The HPE 3 Phase UPSs have a modular design architecture, consisting of separate, hot swappable battery and electronics modules. Further, a built-in intelligent automatic bypass feature ensures continuous power to your connected load even while the modules are being replaced. Ease of maintenance and serviceability

- Faster time to repair (MTTR)
- Automatic and manual bypass
- Increased flexibility through modular design

---

#### Increase battery back-up time with up to four Extended Runtime Modules

HPE 3 Phase UPS supports a maximum of four Extended Runtime Modules (ERM), to further increase your battery back-up time, should you have a sudden brief power outage. Each ERM is 3U high and can be automatically detected and configure when attached to the UPS. For more information on battery backup times, please refer to the Back-up Times Chart.

---

#### Multiple management options increase flexibility

The HPE 3 Phase UPS systems can be fully configured and monitored from the front management LCD. For remote management the HPE UPS Management Module is included at no charge and provides additional features such as out of band communications with up to 5 servers and UPS clustering for redundancy.

---

#### Remote Emergency Power Off Feature

The HPE 3 Phase UPS includes an isolated REPO (Remote Emergency Power Off) port. The REPO feature allows the power to the UPS outlets to be switched off from a remote location. For more information, refer the HPE 3 Phase UPS user's manual.

### Standard Features

#### UPS Management Module

The HPE UPS Management 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 provides 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 Management 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.

**NOTE:** For more information on the UPS Management Module please see: <https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html>

### Warranty

- Standard three year warranty with first year including parts and labor. HPE UPSs are backed by a standard three year limited warranty; 3 year parts, 1 year Labor, 1 year onsite. Optional UPS packaged services are also available for purchase. You can choose the precise level of support based on your needs, from basic to business critical.
- Pre-Failure Battery Warning and its associated Warranty.  
The Pre-Failure Battery Warning is proactively detected and notified by a LED indicator light, showing that the battery needs to be replaced. This notice is given 30 days prior to the battery failure. This indicator provides ample time to order a spare battery. Avoid storing battery spares as a backup because of short shelf life of the battery. The battery warranty coverage is 3 years for parts. The warranty for the first year of ownership includes parts and labor.
- Warranty, standard on all HPE Uninterruptible Power System (UPS) units, extends the advantage of a HPE three-year limited warranty by applying it to the battery before it actually fails. Specifically, the Pre-Failure Battery Warranty ensures that when customers receive the notification from their HPE UPS that the battery may fail, the battery is replaced free of charge under the warranty. Hewlett Packard Enterprise maintains the highest standards in the industry, as evidenced by the HPE Pre-Failure Battery Warranty.
- In addition, HPE UPSs are covered by a \$250,000 equipment protection guarantee. Should your connected equipment get damaged due to a UPS failure, then your damaged equipment is covered to up to \$250,000.

**NOTE:** The \$250,000 Equipment Protection Guarantee is offered only in North America.

### Service and Support

#### HPE Pointnext operational services

HPE Pointnext operational services include Hewlett Packard Enterprise branded hardware options qualified for the server, purchased at the same time or afterwards, internal to the enclosure, as well as 22" and smaller external monitors and rack mounted UPS options. HPE Uninterruptible Power Systems will be covered at the same service level and coverage period as the server. For servers or storage systems installed within a rack, service also covers all HPE qualified rack options installed within the same rack.

**NOTE:** For more information on HPE Pointnext operational services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at:

<http://h20565.www2.hpe.com/portal/site/hpsc/>

**NOTE:** For more complete information on HPE Services offerings, customers and resellers, please visit us at: <https://www.hpe.com/us/en/support.html>

**NOTE:** Additional information regarding worldwide limited warranty and technical support is available at: <http://h20564.www2.hpe.com/hpsc/wc/public/home>

**NOTE:** The information contained herein is subject to change without notice and is provided "as is" without warranty of any kind.

**NOTE:** The warranties for Hewlett Packard Enterprise products and services are set forth in the express limited warranty statements accompanying such products and services.

---

#### Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

### Related Options

<b>UPS Management Module</b>	<p>HPE Management Card for XR UPS</p> <p><b>NOTE:</b> The HPE UPS Management Module provides remote management of a UPS by connecting the UPS directly to the network. Configuration &amp; Management of the UPS from anywhere and at any time via a standard web browser.</p>	AF401A
<b>Extended Runtime Module</b>	<p>HPE UPS R8000/3 R12000/3 Extended Runtime Module</p> <p>NOTE: HPE 3 PHASE UPS supports a maximum of four Extended Runtime Modules (ERM), to further increase your battery back-up time. Each ERM is 3U high and can be automatically detected and configure when attached to the UPS. For more information on battery backup times, please refer to the Back-up Times Chart.</p>	AF434A
<b>Serial Adapters for UPS Management Module</b>	<p>HPE RJ45-DB89 DCE Female 5 Pack Serial Adapter</p> <p><b>NOTE:</b> The serial adapters allow direct (serial) connections to up to 5 servers with the UPS Management Module for out of band communications in the event of a power failure.</p>	AF402A
<b>HPE Power Cables</b>	<p>HPE C13 - C14 WW 250V 10Amp 1.4m Jumper Cord</p> <p>HPE C13 - C14 WW 250V 10Amp 0.7m Jumper Cord</p> <p>HPE C19 - C20 WW 250V 16Amp 2.5m Jumper Cord</p> <p>HPE C19 - C20 WW 250V 16Amp Flint Gray 2.0m Jumper Cord</p> <p>HPE C19 - C20 WW 250V 16Amp Flint Gray 1.20m Jumper Cord</p> <p><b>NOTE:</b> For more information on HPE power cords please go to: <a href="https://h20195.www2.hpe.com/v2/getpdf.aspx/4AA6-6836ENW.pdf">https://h20195.www2.hpe.com/v2/getpdf.aspx/4AA6-6836ENW.pdf</a></p>	<p>142257-006</p> <p>142257-B28</p> <p>295633-B22</p> <p>AF574A</p> <p>AF575A</p>
<b>HPE Pointnext operational services</b>	<p>HPE Install Universal Power Supply 6KVA or Greater Service</p>	U4696E

### Technical Specifications

	R8000/3 NA	R8000/3 INTL	R12000/3 NA	R12000/3 INTL
<b>Electrical Output</b>	<b>Power Output</b> 8kVA/8KW @ 208v 3F Delta	8kVA/8KW @ 400v 3F Wye	12kVA/12KW @ 208v 3F Delta	12kVA/12KW @ 400v 3F Wye
	<b>Nominal output frequency</b>	50-60 Hz auto-detection (Normal mode) 50 or 60 Hz (Battery mode)		
	<b>Output Frequency Variation</b>	Synchronized (Normal mode) ±0.1 when not synchronized with source (Battery mode)		
	<b>Output overload</b>	100-110%: load transfers to Bypass mode after 10 minutes 110-125%: load transfers to Bypass mode after 1 minute 125-150%: load transfers to Bypass mode after 5 seconds >150%: load transfers to Bypass mode after 300 ms		
	<b>Voltage wave form</b>	Sine wave; 2% THD with typical PFC load		
	<b>Surge suppression</b>	High-energy 6500 A peak		
	<b>Noise filtering</b>	MOVs and line filter		
	<b>Output Connections</b>	One NEMA L15-30R	One IEC309 516C6 (16A)	Two NEMA L15-30R Two IEC309 516C6 (16A)
<b>Electrical Input</b>	<b>Voltage Range</b>	200-240 v 3F Wye	380-415v 3F Wye	208v 3F Wye 380-415v 3F Wye
	<b>Nominal voltage</b>	208v 3F Wye	400v 3F Wye	208v 3F Wye 400v 3F Wye
	<b>Nominal frequency</b>	50/60 Hz	50/60 Hz	50/60 Hz 50/60 Hz
	<b>Frequency range</b>	45-65 Hz	45-65 Hz	45-65 Hz 45-65 Hz
	<b>Efficiency</b>	97% @ 40-100% load	97% @ 40-100% load	97% @ 40-100% load 97% @ 40-100% load
	<b>Input connector</b>	NEMA L21-30 (30A)	IEC309 516P6 (16A)	IEC309 560P9 (60A) IEC309 532P6 (32A)
<b>Operating Temperature</b>	<b>Operating Temperature</b>	50°F to 104°F (10°C to 40°C)		
	<b>Optimal battery performance</b>	41°F to 77°F (5°C to 25°C)		
<b>Non-operating Temperature</b>	-13°F to 131°F (-25°C to 55°C)			
<b>Relative Humidity</b>	<b>Operating</b>	5% to 95% non-condensing		
<b>Operating Altitude</b>	Up to 3300 ft (1,000 meters) above sea level; up to 6600 ft (2,000 meters) with 1% derating per +330 ft (100 meters)			
<b>Transit Altitude</b>	Up to 49,212 ft (15,000 meters) above sea level			
<b>Heat Dissipation</b>	1266 BTU/hr maximum at 100% rated load (High Efficiency mode)			
<b>Audible Noise</b>	Less than 50 dBA at 1 meter (Normal mode) Less than 55 dBA at 1 meter (Battery mode)			
<b>Leakage Current</b>	< 3.5 mA			
<b>Surge suppression</b>	ANSI C62.41 Category B3			

### Technical Specifications

<b>Safety Conformance</b>	UL 1778 4th edition; CSA C22.2, No. 107.3	EN and IEC 62040-1-1	UL 1778 4th edition; CSA C22.2, No. 107.3	EN and IEC 62040-1-1
<b>EMC (Class A)</b>	FCC Part 15	EN 62040-2	FCC Part	EN 62040-2
<b>Unit Dimensions (WxDxH)</b>	14.4 x 26 x 10.3 in (441 x 660 x 261 mm) 6U			
<b>Shipping Dimensions (WxDxH)</b>	25 x 38 x 46 in (635 x 965 x 1169 mm)			
<b>Unit Weight</b>	<b>Without batteries</b>	135 lb (61 kg)		
	<b>With batteries installed</b>	307 lb (140 kg)		
<b>Shipping Weight</b>	400 lbs (182 kg)			
<b>Extended Runtime Module (ERM)</b>	<b>Unit Dimensions (WxDxH)</b>	17.2 x 26 x 5.2 in (438 x 660 x 131 mm) 3U		
	<b>Shipping Dimensions (WxDxH)</b>	47.25 x 31.5 x 37 in (1207 x 800 x 940 mm)		
	<b>Unit Weight</b>	170 lbs (77 kg)		
	<b>Shipping Weight</b>	185 lb (84 kg)		

### Estimated Backup Times Chart (Minutes) R8000/3

Load Watts	With Internal Battery	With 1 ERM	With 2 ERMs	With 3 ERMs	With 4 ERMs
8000	8.7	17.7	27.9	43.0	54.7
7000	10.7	22.8	32.4	50.1	63.9
6000	13.6	26.9	41.8	59.8	76.4
5000	18.5	32.8	51.3	73.4	94
4000	23.0	41.5	65.5	94.1	120
3000	30.4	56.0	89.3	128	165
2000	44.0	85.1	137	199	258

### Estimated Backup Times Chart (Minutes) R12000/3

### Technical Specifications

Load Watts	With Internal Battery	With 1 ERM	With 2 ERMs	With 3 ERMs	With 4 ERMs
12000	4.7	9.5	17.3	27.0	34.2
11000	5.4	10.9	19.8	29.8	37.8
10000	6.2	12.6	21.7	33.3	42.2
9000	7.3	14.8	24.4	37.5	47.7
8000	8.7	17.7	27.9	43.0	54.7
7000	10.7	22.8	32.4	50.1	63.9
6000	13.6	26.9	41.8	59.8	76.4
5000	18.5	32.8	51.3	73.4	94
4000	23.0	41.5	65.5	94.1	120
3000	30.4	56.0	89.3	128	165
2000	44.0	85.1	137	199	258

**NOTE:** Backup times are estimated for typical applications. Actual performance will depend on load and battery conditions.

### Environment-friendly Products and Approach-End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise **product return, trade-in, and recycling programs** in many geographic areas for our products

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the **Hewlett Packard Enterprise web site**. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

### Summary of Changes

Date	Version History	Action	Description of Change
01-Oct-2018	Version 13	Changed	Overview were updated.
02-Jul-2018	Version 12	Changed	SKU descriptions were updated.
23-Oct-2017	Version 11	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
27-May-2016	Version 10	Changed	Technical Specifications section was revised.
16-Feb-2016	Version 9	Changed	Overview, Standard Features, and Related Options were revised.
20-Jun-2011	Version 8	Changed	Models and Related Options product descriptions were revised  Key Features and Warranty were moved into Standard Features  Product Highlights was changed to Standard Features  HPE Pointnext operational and Warranty Information were removed from Service and Support
21-Jun-2010	Version 7	Removed	NOTE was removed from Superior Battery Management.
14-Nov-2008	Version 6	Changed	The URL was corrected in UPS Management Module in the Product Highlights section.
18-Dec-2007	Version 5	Changed	Change made in the Technical Specifications section only.
14-Dec-2007	Version 4	Added	A note was added to the Product Highlights section.
07-Dec-2007	Version 3	Changed	Changes were made to the Production Highlights, Warranty and Technical Specifications sections.
13-Nov-2007	Version 2	Changed	Changes were made to the Key Features, Production Highlights and Related Options sections.
		Removed	UPS Management Model from Related Options.
12-Nov-2007	Version 1	New	QuickSpecs was created.





  
[Sign up for updates](#)

© Copyright 2018 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.



c04123376 - 12857 - Worldwide - V13 - 1-October-2018