QuickSpecs

Overview

North America / Latin America Models
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Japan Models
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Introduction

The leading edge HP UPS R3000 XR Uninterruptible Power System features a slim 2U rackmount design, offering up to 2700 Watts of true power. This new rack-space saving design allows more support for critical rack mountable equipment. This product is a refresh of our existing R3000 UPS, and brings unprecedented power density and innovative features to the proven HP family of rack-mountable UPS products.

The new UPS R3000 XR is a high power density solution, designed for customers who want to provide power protection in space-constrained rack enterprise environments. In addition, this new UPS R3000 XR has the capability to be connected to an optional Extended Runtime Module (ERM). Customers can further increase the run-time on their UPS R3000 XR by using this ERM. The HP UPS "XR" models denote "eXtended Runtime Capable" UPS models.

Key Features

- Increased power density with up to 3000VA / 2700 Watts of power packed in just 2U rack space
- Greater system uptime with support for Extended Runtime Module (ERM)
- Easy configuration through enhanced front panel display
- Enterprise-wide intelligent manageability with bundled power management software
- Support for HP Option Cards that extend the power management capabilities of the UPS
- More efficient voltage regulation with revolutionary technology
- Ultimate long-term battery reliability with HP Enhanced Battery Management
- Enhanced system flexibility with three independently controlled load segments
- Support for Remote Emergency Power Off (REPO) circuitry
- Easy serviceability through modular design
- Hot-Swappable Battery and Electronics Modules
- Backed by a limited three-year warranty, HP's Pre-Failure warranty, and a $25,000 load protection guarantee
  (Certain restrictions and exclusions apply)

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Product Highlights

2U Power Packed Design

Rated near unity at 3000VA / 2700W, the HP UPS R3000 XR packs more power in space-conserving rackmount design, allowing you to support more critical equipment in your rack.

Increase System Uptime with Extended Runtime Modules

The Extended Runtime Modules are rack mounted battery modules that occupy 2U(3.5 inches) of rack space. The HP UPS R3000 XR supports one Extended Runtime Module (ERM), which extends your overall battery runtime.

Lower Cost of Ownership with Innovative Technology

The HP UPS R3000 XR utilizes a new industry-leading technology that continually conditions and regulates power without using the battery, thereby increasing the life of the battery. The output voltage is automatically regulated, based on the connected load and the input voltage.

Investment Protection with HP Enhanced Battery Management

HP UPS R3000 XR 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.

Enhanced System Flexibility with HP Option Cards

The UPS R3000 XR models are equipped with a standard serial communications port via an internal slot. This option slot supports two option cards, the Six Port Card and the SNMP / Serial Port Card. These option cards seamlessly integrate into the back of the R3000 XR and provide increased system flexibility.

Remotely Monitor UPSs on the Network

The SNMP / Serial Port Card features the ability to perform simultaneous network and out-of-band communications. It enables network administrators to remotely monitor UPSs and reboot network devices. It provides SNMP functionality, including power event alerts, network power diagnostics, and remote UPS reboot and testing. Used in conjunction with the provided Online power management software or SNMP capable Network Management Software, power-related problems on the network are quickly discovered and remedied.
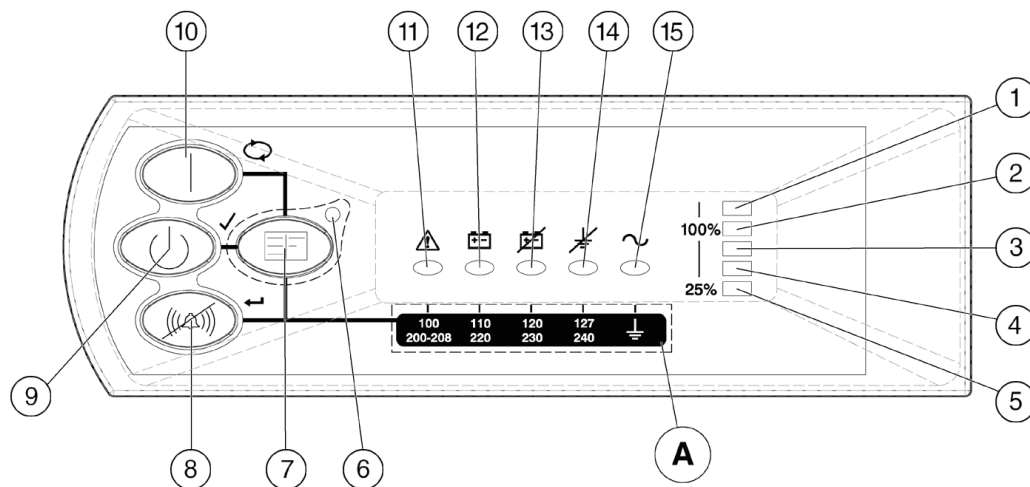
Easy Configuration via Enhanced Front Panel Display

LED and switch membrane integrated into the front panel with four button controls (three buttons for UPS power control and one button under the front bezel for configuration)

Product Highlights

1. LED indicating Overload capacity
2. LED indicating 76% to 100% load capacity
3. LED indicating 51% to 75% load capacity
4. LED indicating 26% to 50% load capacity
5. LED indicating 0% to 25% load capacity
6. Configure mode on LED*
7. Configure Button*
8. TEST/ALARM RESET Button

9. STANDBY Button
10. ON Button
11. General Alarm
12. On Battery
13. Bad Battery/Low Battery
14. Site Wiring Fault Indicator
15. Utility LED
A. Voltage Configuration Panel*

*Accessible only when the front bezel is removed

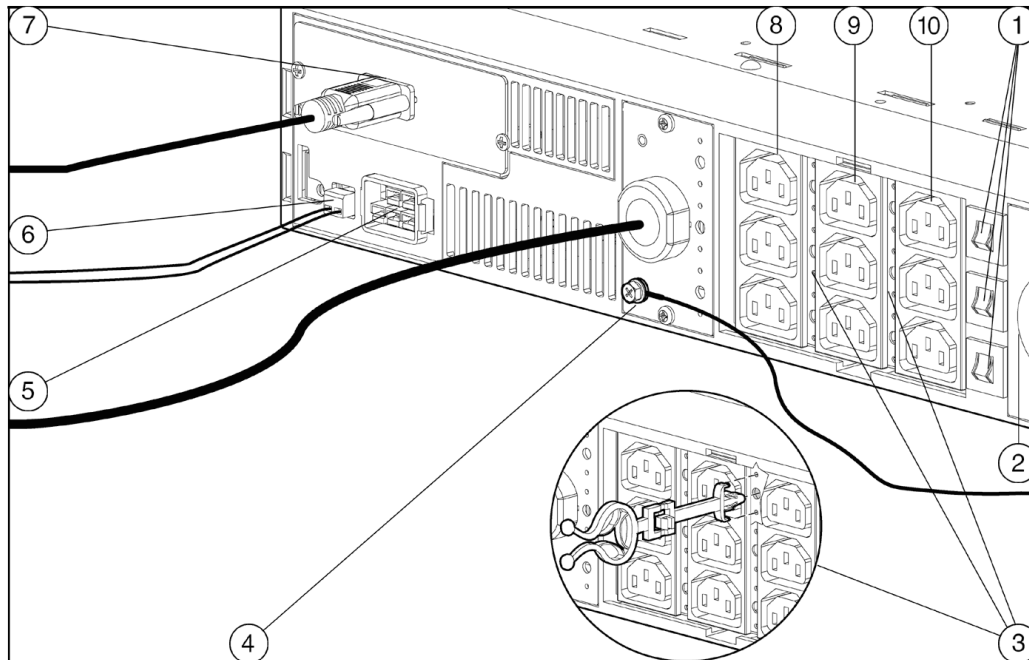## Intelligent Manageability

HP Power Management Software, an integrated component of HP Insight Manager, the industry-leading hardware management platform, is included with the HP UPS R3000 XR models. The HP Power Management Software enables you to monitor and control HP UPSs locally or remotely. This software is a versatile, fully configurable, alert response tool that gives system administrators a full overview of the network's conditions. It enables you to monitor system status and power conditions, configure shut down timing, customize alert messages, and perform UPS diagnostic checks quickly and easily.

Independently Controllable Load Segments

With three load segments, you have the flexibility to configure scheduled startups and shutdowns, in addition to independently control the separate load segments. Working in conjunction with HP Power Management Software, the HP UPS R3000 XR can be configured to extend the runtime for more critical devices.

Product Highlights

1. Load Segment Circuit Protectors
2. HP PDU output receptacle*
3. Cord retention clip attachment locations
4. Ground bonding screw
5. ERM Connector

6. REPO Port
7. Communications Port/Option Slot
8. Load Segment 1
9. Load Segment 2
10. Load Segment 3

Ease of Maintenance with Hot-Swappable Batteries and Electronics Modules

The UPS R3000 XR is modular in design, and both the battery and the electronics modules are hot swappable. HP UPSs are designed with simple access through the front panel. Users can safely install new batteries and even the electronics module without ever powering down connected server and server options.

HP Quality

HP's hardware qualification is the toughest in the industry. Extensive evaluation, testing, product improvement, and an unsurpassed warranty guarantee the highest level of system protection, electrical performance, product quality and compatibility.

Warranty

The HP UPS R3000 XR is covered by a three year, limited warranty. Also, standard on all HP UPS units, is our exclusive Pre-Failure Warranty which extends the advantage of a HP three-year, limited warranty by applying it to the battery before it actually fails. This warranty is offered worldwide. Specifically, the Pre-Failure Battery Warranty ensures that when customers receive notification from HP Power Management Software that the battery may fail, the battery is replaced free of charge under the warranty.

NOTE: $25,000 Computer/Load Protection Guarantee is also provided, in addition to the HP three year, limited warranty.

Service and Support, HP Care Pack and Warranty Information

Software Product Services
- Stand-alone telephone support
- Rights to new license version
- Media and documentation updates

Hardware Product Services
- Installation services
- On-site maintenance (includes warranty support)
- Response time upgrades during the warranty period
- Post-warranty coverage
- RAID setup and performance consulting via statement of work

For additional hardware installation and maintenance information, please refer to the URLs listed below:
http://www.compaq.com/services/carepaq/us/install/
http://www.compaq.com/services/carepaq/us/hardware/

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 period of 1, 3, or 5 years

HP Care Pack Information

Sample part numbers:

- FM-**XHW-36, 3 year, uplift to 5 x 9, Next Day Response
- FM-**4HR-36, 3 year, uplift to 5 x 9, 4-hour Response
- FM-**724-36, 3 year, uplift to 7 x 24, 4-hour Response

** represents a two-digit, product-specific code

- HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.
- HP Care Pack is not available for less than the product's warranty duration.
- HP Care Pack is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.
- HP Care Pack services are prepaid.

For additional CarePaq (hardware & software) information, as well as orderable part numbers, please refer to the URL listed below:
http://www.compaq.com/services/carepaq/index.html.

UPSs up to 3KVA; and all PDU's have services covered under the services for Racks/Cabinets, Enclosure:
FM-CBXHW-36 9x5 Next-Business-Day On-Site Coverage - 3 Years
FM-CB4HR-36 9x5 4-Hour Response On-Site Coverage - 3 Years
FM-CB724-36 24x7, 4-Hour Response On-Site Coverage- 3 Years
UPSs smaller than 3KVA (not including 3 KVA)
FM-UP4HR-36 9x5, 4-Hour Response On-Site Coverage -3 Years
FM-UP724-36 24x7, 4-Hour Response On-Site Coverage- 3Years
UPSs from 3KVA - 6KVA (not including 6 KVA)
FM-UR4HR-36 9x5, 4-Hour Response On-Site Coverage- 3 Years
FM-UR724-36 24x7, 4-Hour Response On-Site Coverage- 3 Years
UPSs 6KVA and larger
FM-US4HR-36 9x5, 4-Hour Response On-Site Coverage- 3 Years
FM-US724-36 24x7, 4-Hour Response On-Site Coverage- 3 Years

Service and Support, HP Care Pack and Warranty Information

Components

Disk Drives	Tape Drives	CD/DVD ROM	SCSI Hubs in SBBs	Adapters
Bus Converters	Backplane RAID Controllers	Power Supplies/UPS	Cabling	Fans

Innovative Options to Meet Your Data Center Needs

Optional SNMP/Serial Port Card	192189-B21	Ideal for networked environments, this option card enables network administrators to remotely diagnose, monitor and reboot network devices via SNMP.
Optional Six Port Card	192185-B21	This option card lets you communicate (via standard DB-9 serial ports) with multiple servers. The maximum number of servers that can be connected using this card depends on the number of load segments available on the UPS. The R3000 XR has 3 load segments, so this card will allow you to serially communicate with up to 3 servers. And the R1500 XR has 2 load segments, so you can communicate with up to 2 servers using this card.
Extended Runtime Module (ERM), R3000 XR	192188-B21	The UPS R1500 XR supports up to two Extended Runtime Modules. Each module is 2U (3.5 inches), a rack mountable battery module that extends your overall battery runtime.

UPS R3000 XR Model Matrix

Part Number	Operating Voltage Settings	Power Out (VA/Watts)	Input Connection	Output Connection
Low-Voltage Models				
192186-001	120V(1)	2880/2700	NEMA L5-30P	(1)L5-30R; (6) 5-15R
192186-291	100V(1)	2400/2250	NEMA L5-30P	(1) L5-30R; (6) 5-15R
High Voltage Model				
192186-002	208V(2)	3000/2700	NEMA L6-20P	(1) L6-20R; (9) IEC 320-C13
192186-B31	230V(3)	3000/2700	Detachable* Cord with country-specific plug	(1) IEC320-C19; (9) IEC 320-C13
192186-B32	230V(3)	3000/2700	16A IEC309 Plug	(1) IEC320-C19; (9) IEC 320-C13
192186-B33	230V(3)	3000/2700	16A CEE 7/7 SCHUKO Plug	(1) IEC320-C19; (9) IEC 320-C13
192186-AR1	230V(3)	3000/2700	16A BS-546 Plug	(1) IEC320-C19; (9) IEC 320-C13
192186-292	200V(2)	3000/2700	NEMA L6-20P	(1) L6-20R; (9) IEC 320-C13

1. User selectable for 100, 110, 120, 127V via front panel
2. User selectable for 200, 208, 220, 230, 240V via front panel
3. User selectable for 208, 220, 230, 240V via front panel

***NOTE:** This model with the detachable cord can be used only in applications where the total leakage current is less than 3.5 mA.

Kit Contents	HP UPS R3000 XR HP Power Management Software CD Power Products Documentation CD Depth adjustable fixed rack mounting rails, mounting brackets, cord retention clips Communications cable Additional IEC to IEC jumper cords with high voltage models
Unit Dimensions	3.50 x 19.0 x 24.5 in / 89 x 483 x 622 mm
Shipping Dimensions	14 x 32 x 38.5 in / 356 x 813 x 978mm
Unit Weight	82 lbs/37 kg
Shipping Weight	105 lbs/48 kg

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Specifications

Electricial Input	Voltage Range	100, 120 and 230V models. See Model Matrix for nominal and user selectable voltage settings
	Frequency	50/60 Hz
	Input Plug	See Model Matrix
	Online Efficiency	95%
	Surge Suppression	High Energy 6500A peak
	REPO	Remote Emergency Power-Off disables AC power to load
Electrical Output	Online Regulation	-10% to +6% of nominal voltage
	On battery Regulation	±5% of nominal voltage
	Voltage Wave Form	Sine wave
	Connections	See Model Selection Matrix; divided into 3 Load Segments
	Output Protection	Re-settable circuit protectors
Battery	Type	Maintenance-free, sealed, valve-regulated lead acid (VRLA)
	Extended Batteries	One ERM with two battery strings
	Backup Time	See Backup Times Chart
	Recharge Time	<3 hours to 80% usable capacity; <24 hours for complete recharge
Communications	Serial Ports	Standard DB-9 ports (ships with communication cable)
	Option Slot	One
	Option Cards	Six Port Card and SNMP / Serial Port Card
	LED Indicators	LED and switch membrane integrated into the front panel; with four-button control (three buttons for UPS power control and one button under the front bezel for configuration).
Environmental and Safety	Operating Temperature	50°F to 104°F / 10°C to 40°C
	Transit Temperature	-13°F to 131°F / -25°C to 55°C
	Storage Temperature	32°F to 77°F / 0°C to 25°C
	Humidity (Operation)	20% to 80% (non-condensing)
	Humidity (Non-operating)	5% to 95%
	Operating Altitude	Up to 6,562 ft / 2000m above sea level
	Transit Altitude	49,212 ft /15,000 m above sea level
	Audible Noise	<46db (at 1m from surface of unit)
	Safety Markings	FCS, UL, CSA, VDE, NEMKO, FIMKO, DEMKO, SEMKO, NOM
	Safety Certifications	UL1778; CSA22.2 No.107.1,No.107.2,No.950; CB Bulletin No.86AI; EN50091-1; EN60950; EMKO-TSE207/95; NOM-019-SCFI-1993
	EMC Markings	FCC; CISPR; VCCI; CE
	Emissions	FCC CFR 47, Part 15 Class A, EN50091-2
	Immunity	IEC 801-2, IEC 801-3, IEC 801-4, IEC 801-5
	Surge Suppression	Conforms to IEEE 587B and ANSI C62.41
	REPO Port	Meets NEC code 645-11 intent and UL requirements

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HP UPS R3000 XR

Estimated Backup Times Chart (Minutes)

Load (Percent*)	**With Standby Battery (Minutes)**	**With Extended Runtime Module (Minutes)**
20	40	120
50	12	45
80	6.5	30
100	5	20

*__NOTE:__ Percent of 3000VA or 2700W of load
__NOTE:__ Backup times are estimated for typical applications. Actual performance will depend on load and battery conditions.

Compatibility

Compatible with all HP servers, storage, racks, rack options, and other rackmountable HP equipment (for PDU options please refer to the UPS/PDU compatibility matrix on www.compaq.com/ups).