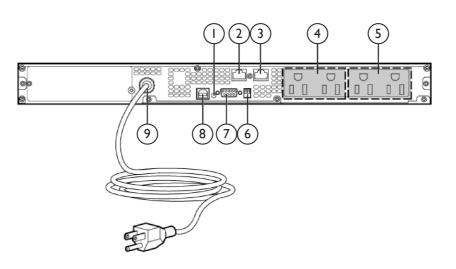
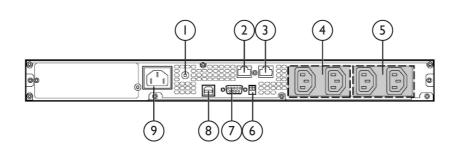
Overview

HP Rack-mountable UPSs provide maximum uptime in the event of a power problem for a variety of rack-based computer systems, providing powerful performance while occupying minimal rack space.

The HP R1500 G3 UPS is a 1U, high power density solution designed for customers who want to provide power protection, for maximum uptime and data corruption avoidance, in space-constrained rack environments. In addition, HP's new Power Protector software is included at no charge for robust and flexible UPS management.



- 1. Input circuit breaker
- NOTE: International model only
- 2. Network Transient protector IN Jack
- 3. Network transient protector OUT Jack
- 4. Load segment one (two NEMA 5-15R output receptacles for surge and battery backup protection)
- 5. Load segment two (two NEMA 5-15R output receptacles for surge and battery backup protection)
- 6. Voltage configuration dip switches
- 7. Serial communications port
- 8. USB communications port
- 9. NA and JPN models input power connector is hardwired NEMA 5-15P



1. Input circuit breaker NOTE: International model only 6. Voltage configuration dip switches



Overview

- 2. Network Transient protector IN Jack
- 3. Network transient protector OUT Jack
- 4. Load segment one (two IEC 320-C13 output receptacles for surge and battery backup protection)
- 5. Load segment two (two IEC 320-C13 output receptacles for surge and battery backup protection)

Models

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- ŀ

- 7. Serial communications port
- 8. USB communications port
- 9. Input power connector (IEC-320- C14 power inlet NOTE: NA and JPN models input power connector is hardwired NEMA 5-15P

Modela	
HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A
HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A



1U Chassis

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• Increased power density with up to 1500VA/1000 Watts of power packed in just 1U rack space

Standard Features

Key Features

	 Front panel LED display Enterprise-wide intelligent manageability with bundled HP Power Protector management software Support for the HP UPS Network Module that extends 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 two independently controlled load segments Hot-Swappable Batteries Backed by a three-year warranty with the first year including parts and labor Pre-Failure warranty, and a \$250,000 load protection guarantee NOTE: Certain restrictions and exclusions apply		
1U Power Packed Design	Rated up to1500VA/1000W, the HP UPS R1500 G3 packs more power in space-conserving rack-mount design, allowing you to support more critical equipment in your rack.		
Lower Cost of Ownership with Innovative Technology	The UPS R1500 G3 utilizes a line interactive which features true sine wave output and superior input/output voltage regulation. This technology is inherently reliable and highly efficient. The HP UPS can correct input voltage variations as low as -23% of nominal voltage without transferring to the battery. This will ensure the battery is preserved and ready for the next power anomaly		
Investment Protection with HP Enhanced Battery Management	The UPS R1500 G3 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.		
Intelligent Manageability	HP Power Protector management software included with the R1500 G3 models. The HP Power Protector 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 UPSs conditions. It enables you to monitor system status and power conditions, configure shut down timing, customize alert messages, and gracefully shut down servers during an extended power outage. For more information on HP Power Protector software be see: www.hp.com/go/hppp		



Standard Features			
Optional UPS Network Module	The HP UPS Network Module enables you to monitor and manage power environments through comprehensive control of HP UPSs. The HP 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 UPS Network Module can be configured to send alert traps to HP 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 HP 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 anytime via a standard web browser.		
	NOTE: For more information on the UPS Network Module please see: www.hp.com/go/hpunm.		
Independently Controllable Load Segments	With two independent controlled load segments, you have the flexibility to configure each segment's shut down schedule to maximize runtime for critical equipment.		
	 ith The UPS R1500 G3 is modular in design, and the batteries are hot swappable. HP UPSs are designed with simple access through the front panel. Users can safely install new batteries without ever powerin 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.		
Compatibility	Compatible with all HP servers, storage, racks, rack options, and other rack mountable HP equipment.		
Warranty	The HP UPS R1500 G3 is covered by a three year warranty, with the first year including parts and labor. 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: \$250,000 Computer/Load Protection Guarantee is also provided, in addition to the HP 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 		

• Duration - Select duration of coverage for a minimum period of 1 year or multiple years



Service and Support

Service and Support	HP Technology Services HP Technology Services offers you consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, boost availability and avoid downtime. Protect your business beyond warranty with HP Care Pack Services When you buy HP Options, it's also a good time to think about what level of service you may need. HP Care Pack services provide total care and support expertise with committed response choices designed to meet your IT and business need.
Recommended HP Care Recommended Services	Pack Services for optimal satisfaction with your HP product 3-Year HP 24x7 4 hour Response, Hardware Support Onsite Service Provides you with rapid remote support and if required an HP authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged. http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE HP ProLiant Server Hardware Installation Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN
Related HP Care Pack Se Related Services	ervices to enhance your HP product experience 3-Year HP 6 hour Hardware Support Onsite Call-to-Repair Service Provides an IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 hours of the initial service request to the HP Global Solution Center http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6636ENN HP Proactive Select Service Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN
Insight Remote	Support Delivers secure remote monitoring and support for HP servers and storage, 24x7 at no additional cost. Available as part of HP Warranty, Care Pack and Service Contract offers.
Parts and materials	HP will provide HP-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. Supplies and consumable parts will not be provided as part of this service; standard warranty terms and conditions apply. Parts and components that have exceeded their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual or the technical product data sheet will not be provided, repaired or replaced as part of this service.
Coverage	For ProLiant servers and storage systems, this service covers HP-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty



Service and Support

terms and conditions apply.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HP as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.

For more information

To learn more on services for HP ESSN Options, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant or www.hp.com/services/bladesystem



Related Options

UPS Management HP Care Pack HP UPS Network Module HP Install Universal Power Supply Less Than 3KVA Service AF465A U4690E



UPS Model Matrix

Part Number	Operating Voltage Settings	Power Out (VA/Watts)	Input Connection	Output Connection
Low-Voltage Models				
AF469A	120V	1440/1000	NEMA 5-15P	(4) Nema 5-15R
	NOTE: Part Number AF4	169A is user selectable for 1	10V, 120V, or 127V via t	the rear panel dip switch
AF470A	100V	1200/900	NEMA 5-15P	(4) Nema 5-15R
	110v	1320/1000	Nema 5-15P	(4) Nema 5-15R
	NOTE: Part Number AF4	121A is user selectable for 10	00V, or 110V via rear pa	nel dip switch
High Voltage Model				
AF471A	230V	1500/1000	IEC-320 C14	(4) IEC 320-C13
	NOTE: Part Number AF4	471A is user selectable for 22	20V, 230V, or 240V via t	the rear panel dip switch
Kit Contents	• HP UPS R1500 G			
	 Power Products Do 			
		ixed rack mounting rails		
		tions cable (1.83 meters) EC jumper cords, and detacl	hable country specific inc	ut card with the high
	voltage INTL mod		nuble country specific inp	or cord with the high
	0	ons cable (1.8 meters)		

• USB communications cable (1.8 meters)



Technical Specifications

Unit Dimensions	17.5 x 1.75 x 24.0 in (44.45 x 4.44 x 61 cm)		
Shipping Dimensions	32 x 11.5 x 26.75 in (81.2	28 x 29.21 x 67.95 cm)	
Unit Weight	50.5 lb (22.9 kg)		
Shipping Weight	76 lb (34.5 kg)		
Electrical Input	Voltage Range	\pm 20% of nominal100, 120 and 230V models. See Model Matrix for nominal and user selectable voltage settings via the rear panel dip switch	
	Frequency	50/60 Hz \pm 5Hz (auto sensing)	
	Input Plug	See Model Matrix	
	Online Efficiency	95%	
	Surge Suppression	High Energy 6500A peak	
Electrical Output	Online Regulation	-10% to +6% of nominal voltage	
	On battery Regulation	$\pm 5\%$ 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, customer supplied facility input circuit breaker, and re-settable rear panel circuit breaker on the INTL HV AF418A	
Battery	Туре	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 (ships with communication cable) USB port (ships with communication cable)	
	Option Slot	One	
	Option Cards	HP UPS Network Module	
	LED Indicators	LED display integrated into the front panel	
	Software	HP Power Protector management software available via download	
Environmental and Safety	Operating Temperature	50° to 104° F (10° to 40° C)	
	Transit Temperature	-5° to 131° F (-15° to 55° C)	
	Storage Temperature	-15° to 55° F (-26° to 13° C)	
	Humidity (Operation)	5% to 95%	
	Humidity (Non-operating)	5% to 95%	
	Operating Altitude	3000 m <35 d C; 1500 m 36 - 40 d C	
	Storage Altitude	<40db in normal operation; <45db while on inverter	
	Audible Noise	<46db (at 1m from surface of unit)	
	Safety Markings	UL/cUL ICES, GS, GOST, EK	
	Safety Certifications	UL1778; UL6950, CSA22.2 No.107.1,No.107.2,No.950; CB Bulletin No.86AI; EN50091-1; EN60950	
	EMC Markings	FCC-A; CISPR 22; VCCI-A; CE, BSMI, C-TICK	
	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	



Technical Specifications

Load, Percent	Load, Watts	Minutes of Back up time
20%	200	58
50%	500	17
80%	800	8
100%	1000	5

Environment-friendly Products and Approach End-of-life Management and Recycling Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

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 web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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