hp

i n v e n t

key features

- Support more critical equipment with unprecedented power density

- Greater system uptime with support for optional extended runtime modules (ERMs)

- Intelligent manageability with bundled power management software

- Long-term battery reliability with enhanced battery management and superior voltage regulation

- Enhanced system flexibility with multiple load segments and support for option cards

- Support for remote emergency power off (REPO) circuitry

- Easy serviceability with hot-swappable batteries (and electronics modules for r3000 xr & r6000)

- Backed by a limited three-year warranty

hp rackmountable UPSs

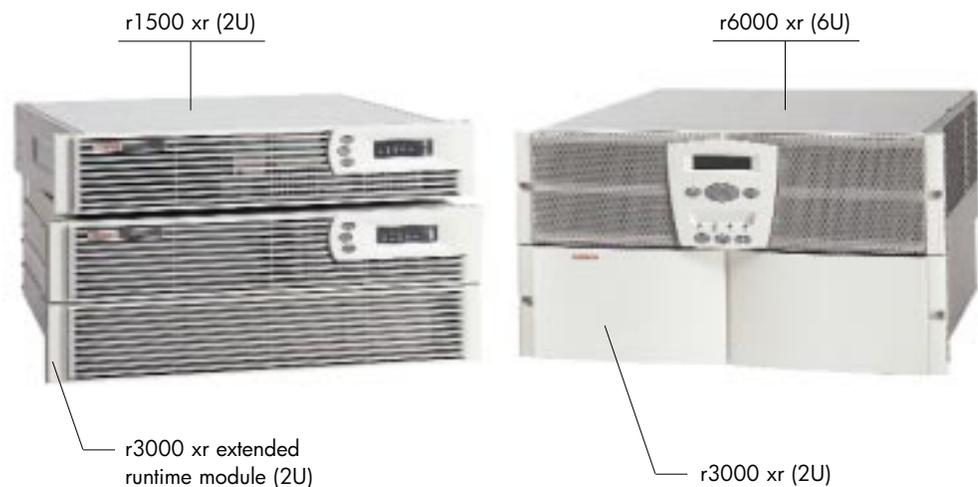## ideal for space-constrained rack environments

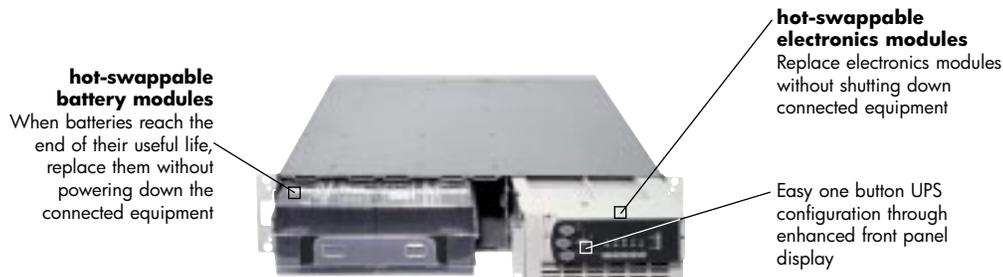### UPSs r3000 xr and r1500 xr

The award-winning r3000 xr packs 3000VA/2700W in just 2U* of rack space. The lightweight UPS r3000 xr provides more value in less space (3.5") than any UPS in its class by using a revolutionary transformer-less technology. The 2U r1500 xr, another power dense rackmount UPS solution, is rated at 1440VA/1340W.

UPS r6000

The UPS r6000, rated at 6000 VA/6000W, occupies only 6U (10.5") of valuable rack space. The r6000 has a power density of 1 kW per 1U of rack space. The flashable firmware allows you to easily upgrade your UPS. With five load segments and two option slots, you have increased system flexibility.

* U=1.75 inches

r1500 xr (2U)

r6000 xr (6U)

r3000 xr extended runtime module (2U)

r3000 xr (2U)

extended runtime modules

HP rackmountable UPSs support extended runtime modules (ERMs) to provide increased system uptime. The r1500 xr and r6000 both support up to two ERMs while the r3000 xr supports one module.

enhanced battery management

Hewlett-Packard's UPSs incorporate enhanced battery management (EBM) technology, which doubles battery service life, optimizes recharge time for quick recovery after power outages, and provides advanced warning of the end of useful battery life. In addition, HP UPSs correct incoming voltage fluctuations so that they do not affect the performance of the connected equipment.

hot-swappable battery and electronics modules

All HP rackmountable UPSs are equipped with hot-swappable batteries, which allow you to replace batteries without powering down the connected equipment. For superior high-availabilty, you can hot-swap both the battery and electronics modules of the hp UPSs r3000 xr and UPS r6000.

load segment control

Load segment control via receptacle groups gives you the flexibility to configure scheduled start-ups and shutdowns of network equipment to extend the runtime time of critical devices. For example, in the event of an extended power outage, you can select to power down the less important equipment first to keep the more critical equipment up and running.

intelligent manageability

All HP UPSs are bundled with power management software. With the power management software, you have the ability to monitor and control hp UPSs both locally and remotely. It also provides a full overview of network power conditions. By simplifying system management, you can reduce downtime and costs.

warranty

Hewlett-Packard's UPSs offer a three year limited warranty, our exclusive battery pre-failure warranty which provides free battery replacement under warranty, and $25,000 load protection guarantee*.

*Certain restrictions and exclusions apply.

hp UPS sizer

Do you need to find the correct HP UPS for your system as well as view UPS specifications? Just go to www.upssizer.com to put the HP UPS sizer to work for you. You can select the right HP tower and rackmountable UPS in three easy steps:

1. Determine a group of devices you need to protect.
2. Specify the UPS requirements such as input voltage, backup time required, and provisions for future growth.
3. The UPS sizer selects the best UPS solution and shows the technical specifications of the recommended UPS.

backup times (in minutes)

load in watts	r1500 xr	r1500 xr + 1 ERM	r1500 xr + 2 ERM	r3000 xr	r3000 xr + 1 ERM	r6000	r6000 + 1 ERM	r6000 + 2 ERM
600W	17	68	182	33	104	87	169	261
800W	11	47	128	23	76	74	156	248
1000W	7	35	75	16	54	54	144	236
1200W	6	29	58	13	48	48	128	222
1400W	—	—	—	11	43	46	112	194
1600W	—	—	—	10	39	40	96	166
1800W	—	—	—	9	35	34	82	139
2000W	—	—	—	8	32	28	66	109
2200W	—	—	—	7	30	26	59	97
2400W	—	—	—	6	28	24	54	85
2600W	—	—	—	5	22	22	46	73
2800W	—	—	—	—	—	20	43	69
3000W	—	—	—	—	—	18	40	66
4000W	—	—	—	—	—	12	28	47
5000W	—	—	—	—	—	8	21	36
6000W	—	—	—	—	—	6	18	28

Backup times are estimated for typical applications. Actual performance will depend on environmental conditions, ambient temperature, battery age, and other factors.

technical specifications

electrical input & output

(r1500 xr and r3000 xr)

frequency	50/60 Hz, ± 5Hz (auto sensing)
online regulation	−10% to +6% of nominal voltage

(r6000)

frequency	50/60 Hz, ±3 Hz (±5 with extended voltage range)
online regulation	±10% of nominal voltage

(all rackmount UPSs)

on battery regulation	±5% of nominal voltage
REPO	remote emergency power-off disables AC power to load

battery

type	maintenance-free, sealed, valve-regulated lead acid (VRLA)
recharge time	<3 hours to 80% usable capacity; <24 hours for complete recharge

environmental and safety

operating temperature	50°F to 104°F / 10°C to 40°C
operating humidity	20% to 80% (non-condensing)
operating altitude	up to 10,000 ft / 3,048m above sea level
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

model selection guide

model number	part number	nominal voltage (VAC)	power out (VA / Watts)	input connection	output connection	unit dimensions (W x H x D)	unit weight
low voltage models							
r1500 xr, na	204404-001	120[1]	1440 / 1340	5-15P	(6) 5-15R	17.0 x 3.4 x 19.1 in. 43.1 x 8.6 x 48.5 cm	50 lb. 23 kg
r3000 xr, na low	192186-001	120[1]	2880 / 2700	L5-30P	(1) L5-30R; (6) 5-15R	19 x 3.5 x 24.5 in. 48.3 x 8.9 x 62.2 cm	82 lb. 37.1 kg
r1500 xr, jpn	204404-291	100[2]	1500 / 1340	5-20P	(6) 5-15R	17.0 x 3.4 x 19.1 in. 43.1 x 8.6 x 48.5 cm	50 lb. 23 kg
r3000 xr, jpn low	192186-291	100[2]	2400 / 2250	L5-30P	(1) L5-30R; (6) 5-15R	19 x 3.5 x 24.5 in. 48.3 x 8.9 x 62.2 cm	82 lb. 37.1 kg
high voltage models							
r1500 xr, intl	204404-B31	230[3]	1500 / 1340	IEC-320-C14	(6) IEC-320, C13	17.0 x 3.4 x 19.1 in. 43.1 x 8.6 x 48.5 cm	50 lb. 23 kg
r3000 xr, na high	192186-002	208[4]	3000 / 2700	L6-20P	(1) L6-20R; (9) IEC-320, C13	19 x 3.5 x 24.5 in. 48.3 x 8.9 x 62.2 cm	82 lb. 37.1 kg
r3000 xr, jpn high	192186-292	208[4]	3000 / 2700	L6-20P	(1) L6-20R; (9) IEC-320, C13	19 x 3.5 x 24.5 in. 48.3 x 8.9 x 62.2 cm	82 lb. 37.1 kg
r3000 xr, detached cord	192186-B31	230[4]	3000 / 2700	detachable cord with country-specific plug[4]	(1) IEC-320, C19; (9) IEC-320, C13	19 x 3.5 x 24.5 in. 48.3 x 8.9 x 62.2 cm	82 lb. 37.1 kg
r3000 xr, IEC-309	192186-B32	230[4]	3000 / 2700	16A IEC-309 plug	(1) IEC-320, C19; (9) IEC-320, C13	19 x 3.5 x 24.5 in. 48.3 x 8.9 x 62.2 cm	82 lb. 37.1 kg
r3000 xr, SCHUKO plug	192186-B33	230[4]	3000 / 2700	16A CEE 7/7 SCHUKO plug	(1) IEC-320, C19; (9) IEC-320, C13	19 x 3.5 x 24.5 in. 48.3 x 8.9 x 62.2 cm	82 lb. 37.1 kg
r3000 xr, South Africa plug	192186-AR1	230[4]	3000 / 2700	16A BS-546 plug (South Africa/ India Plug)	(1) IEC-320, C19; (9) IEC-320, C13	19 x 3.5 x 24.5 in. 48.3 x 8.9 x 62.2 cm	82 lb. 37.1 kg
r6000a[5] (North America model)	347207-001	208[4]	6000 / 6000	hardwired	(12) IEC-320, C13; (3) IEC-320, C19	17.2 x 10.5 x 24.7 in. 43.8 x 26.8 x 62.9 cm	250 lb. 136 kg
r6000i[5] (International model)	347207-B31	230[4]	6000 / 6000	hardwired	(12) IEC-320, C13; (3) IEC-320, C19	17.2 x 10.5 x 24.7 in. 43.8 x 26.8 x 62.9 cm	250 lb. 136 kg
r6000j[5] (Japan model)	347207-291	200[4]	6000 / 6000	hardwired	(12) IEC-320, C13; (3) IEC-320, C19	17.2 x 10.5 x 24.7 in. 43.8 x 26.8 x 62.9 cm	250 lb. 136 kg
optional extended runtime modules (ERMs)							
r1500 xr, ERM[6]	218971-B21	–	–	–	–	17 x 3.4 x 18.6 in. 43.1 x 8.6 x 47.2 cm	75 lb. 34 kg
r3000 xr, ERM[7]	192188-B21	–	–	–	–	19 x 3.5 x 25 in. 48.3 x 8.9 x 63.5 cm	105 lb. 47.6 kg
r6000, ERM[6]	347224-B21	–	–	–	–	17.2 x 5.2 x 24.3 in. 43.8 x 13.3 x 61.7 cm	150 lb. 68 kg

1. User selectable (via front panel) for 110, 120 and 127 VAC. With 110 VAC selected, unit can operate at 50 Hz. 2. User selectable (via front panel) for 100, 110, 120 and 127 VAC. With 100 or 110 VAC selected, unit can operate at 50 Hz. 3. User selectable (via front panel) for 220, 230 and 240 VAC. 4. User selectable (via front panel) for 200, 208, 220, 230 and 240 VAC. 5. (6) IEC-320 10 amp cables (two 2 meter cables, two 2.5 meter cables, and two 3 meter cables), and (2) IEC-320 16 amp cables supplied with UPS. 6. UPSs r1500 xr and r6000 support up to two ERMs. 7. UPS r3000 xr supports one ERM.

www.hp.com/products/ups

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