

**n+x
redundancy**



features

- unity rated, 12kVA/ 12kW
- n+x redundancy and scalability
- online technology
- state-of-the-art wireless paralleling technology
- high availability modular design with four independent 3kVA modules
- hot-swappable battery and electronic modules
- support for up to two extended runtime modules
- bundled power management software
- energy dense pure lead-tin batteries with optimized battery management
- flash ROM technology
- support for remote emergency power off (REPO)
- hp 3 year limited warranty

benefits

- superior power conditioning and thermal efficiency
- high power density of 12000W in 10U
- scalability to grow with your business
- high availability continuous operation in the event of sudden power failures
- increased runtime with extended runtime modules
- no single point of failure
- ease of maintenance
- increased battery service life
- easy field upgradeability

hp rack system/e r12000xr ups

Specifically designed to meet the high availability demands of businesses today, the rack system/e r12000 xr ups utilizes online technology to provide the highest levels of power protection for your hp PA-RISC and Itanium™ based servers. The r12000 xr ups features a modular architecture where each module (total of four 3 kVA modules) runs in parallel. As a result you can configure the r12000 xr ups for redundancy based on your needs. You can choose to use it as 12kVA ups or configure it as a 9kVA ups in n+ 1, 6kVA in n+ 2 or 3kVA in n+ 3 redundant modes.



designed for high availability

A unique patented wireless paralleling technology built into the r12000 xr ups eliminates any system-level single point of failure. In addition, the online technology protects critical equipment against all types of power problems and creates clean, regulated power by continuous use of the inverter. With energy-dense pure lead-tin batteries, you have an unparalleled battery service life. HP optimized battery management technology also increases battery service life, optimizes battery recharge time and provides proactive notification of battery failure.



ease of serviceability

Both battery and electronics modules are hot-swappable, so you can quickly and safely install new batteries and power modules without shutting down the load. An automatic bypass feature ensures continuous power to your connected equipment even while the modules are being replaced.

expanded runtime

The r12000 xr ups supports up to two 4U extended runtime modules to further extend your available battery backup time in case of sudden, brief power outages.

estimated backup times (in minutes)

load*	standard battery	1 ERM added	2 ERMs added
20%	43	69	101
50%	14	28	41
80%	7	15	24
100%	5	11	18

*Percent of 12 kVA or 12 kW load. Backup times are estimated for typical loads.

product number

J4373A	rack system/e 12000 xr ups
	option OD1-factory integration
J4375A	rack system/e 12000 xr extended runtime module

technical specifications

electrical output

on line regulation	±3% of nominal voltage
on battery regulation	±3% of nominal voltage
connections	hardwired
output protection	The UPS does not have any output circuit breakers (on input-end, the UPS will need a 100A circuit with over current protection). When a HP PDU is hardwired to the UPS, the output circuit breaker protection is provided by the PDU circuit breakers.
voltage range (on battery)	+5% of nominal voltage (-10% of low battery)

battery

type	Each module contains four 12V maintenance-free, sealed valve regulated lead-acid (VRLA) batteries
recharge time	<3 hours to 80% usable capacity; <48 hours for complete recharge

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°C to 77°C /0°C to 25°C
operating humidity	5% to 95% (non-condensing)
storage humidity	5% to 95%
operating altitude	up to 10,000 ft./3048m (up to 4,000 ft. de-rated linearly to 80% at 10,000 ft.)
transit altitude	49,212 ft./15,000 m above sea level
storage altitude	up to 30,000 ft./9,144 m above sea level
audible noise (dBA)	typically 60 dBA
online thermal dissipation (BTU/hr.)	8,990 BTU/hr.
generator compatibility	yes
safety markings	FCS, UL, CSA, VDE, NEMKO, FIMKO, DEMKO, SEMKO, NOM, EN60950 & IEC6100-4-X
safety certifications	UL1778; CSA22.2 No.107.1, No.107.2, No.950; CB Bulletin No.86A1; EN50091-1; EN60950; EMKO-TSE207/95; NOM-019-SCFI-1993
EMC markings	FCC, CISPR, VCCI, CE, IEC61000-4-X (Class A 210m)
emissions	FCC CFR 47, Part 15 Class A, EN50091-2
immunity	IEC 801-2, IEC 801-3, IEC 801-4
surge suppression	high energy 6500A peak; Conforms to IEEE 587B and ANSI C62.41
REPO port	meets NEC code 645-11 intent and UL requirements
bypass (during hot-swap)	both automatic and manual bypass available

communications

serial ports	two DB9 RS-232 connectors
front panel button controls	six button control
front panel controls	LCD front panel display to configure and monitor UPS; two line x 16 character LCD display in English
LED Indicator	five modes of operation; standby, operate, bypass, battery, and redundant
audible alarms	yes

physical specifications

UPS unit	U.S.	metric
height	17.5 in.	44.45 cm
width	17.5 in.	44.45 cm
depth	28.6 in.	72.64 cm
unit weight	420 lb.	190 kg

extended power pack

dimensions	26.5 in.	67.3 cm
width	7 in.	17.78 cm
depth	18.8 in. (w/o front panel)	47.7 cm
unit weight	186 lb.	84 kg

For the latest information on HP rack system/e xr ups, visit www.hp.com/rack solutions

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