

Smart-UPS® RT

220/230/240V

Versatile, high density power protection for computer networks, telecommunications, and industrial applications



Smart-UPS® RT Features:

- Double Conversion On-Line
- Rack/Tower Convertible
- Continuous Voltage and Frequency Regulation
- High Power Density
- Wide Input Voltage Range
- User Replaceable, Hot-Swappable Batteries
- Scalable Runtime
- Built-in Automatic & Manual Bypass
- Faster Recharge Time
- Cold Start
- Intelligent Battery Management
- Lightning and Surge Protection
- Sine-wave Output
- Network Grade Line Conditioning
- Emergency Power Off
- Unattended Safe & Graceful Shutdown
- Alarms and Indicators
- PowerChute® Software
- Single- and Three-phase Input Available in a Single Product
- Multiple Output Voltages
- Auto-sensing and Programmable Frequency
- Flash Programmable Firmware
- Terminal Mode Programmability
- Built-in SmartSlot
- Input Power Factor Correction

Warranty & Approvals

- 2 year warranty
- Safety Approvals: EN62040-1-1, IEC62040-1-1, EN60950-1:2001, IEC 60950-1, CE Low Voltage Directive (73/23/EEC)
- EMC: EN50091-2, IEC 62040-2, EN55022 (CISPR 22), EN55024, EN61000-2-2, -3-2, -3-3, -4-2, -4-3, -4-5, -4-6, -4-8, -4-11, CE EMC Directive (89/336/EEC)
- Product Marking: VDE/GS, CE, C-TICK, PCBC (1000 and 2000VA models), GOST, BSMI, SABS
- Performance: IEC 62040-3, EN50091-3

Overview

Smart-UPS® RT is a family of high performance UPSs for servers, networking equipment, telecommunication systems, industrial and medical equipment, and other mission-critical applications. The Smart-UPS RT is based on the field-proven, industry-leading Smart-UPS functionality, but features double conversion on-line topology, which delivers tight voltage and frequency regulation, zero transfer time to and from battery, and input power factor correction.

While offering advanced performance and high availability features, the Smart-UPS RT

can be managed using PowerChute® software, as well as an array of SmartSlot accessories. Smart-UPS RT provides battery back up to the load through the use of internal batteries. However, an unlimited number of external battery packs can be added to meet desired levels of runtime. All Smart-UPS RTs and battery packs ship in tower configuration, while easily converting to the 19" rack-mount mode with the addition of an APC Rail Kit.

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Typical Applications

- Servers
- Networks
- Storage
- VoIP
- Telecommunications
- Industrial equipment
- Medical diagnostic equipment

Awards/Industry Approvals

- "Editor's Choice" Award - *PC Magazine (Russia)*
- "Best Product 2002" Award - *PC Magazine (Russia)*
- "Editor's Choice" Award - *PC Magazine (Greece)*
- "Best on-line UPS" Award - *PC Direct (Germany)*



Smart-UPS RT
1000



Smart-UPS RT
2000



Smart-UPS RT
3000



Smart-UPS RT
5000



Smart-UPS RT
7500



Smart-UPS RT
10000

Features and Benefits

Availability

Zero Transfer Time ensures no interruption of mission-critical applications when UPS transfers to/from the batteries.

Wide Input Voltage Range 160-280 VAC input voltage range at full load allows less time on battery while preserving battery capacity for blackout conditions. Input voltage can go as low as 100 VAC, at half load, without using the battery.

Continuous Voltage and Frequency Regulation Smart-UPS® RT provides premium, regulated sine-wave power for sensitive equipment. Smart-UPS RT is also generator-set compatible.

Built-in Automatic & Manual Bypass ensures continuous supply of power to the critical loads in the event of electronic failure, overload condition, or scheduled maintenance.

Scalable Runtime Unlimited number of matching battery packs can be added to increase runtime to desired levels.

Faster Recharge Time ensures battery power is available more quickly for subsequent power disturbances.

Cold Start allows the unit to be powered without input power being available.

Intelligent Battery Management utilizes micro-processor to control battery charging and diagnostic testing ensuring maximum battery life.

Hot-Swappable, User Replaceable Batteries allow continuous operation of the load when batteries are being replaced by the end user.



User-friendly, hot-swappable battery replacement

Protection

Sine-wave Output provides assurance of compatibility with all types of loads.

Lightning and Surge Protection Integrated Surge Suppression is superior to separate surge suppressors.

Network-grade Line Conditioning provides full time EMI/RFI filtering, thus preventing data errors caused by line noise.

Emergency Power Off (EPO) Smart-UPS RT can be attached to central EPO system for shutdown in an emergency situation.

Unattended Safe & Graceful Shutdown prevents possible data corruption by providing systematic, unattended operating system shutdown in the event of an extended power outage.

Alarms and Indicators provide operational status information of the UPS instantaneously.

Redundancy

Automatic Transfer Switch Application provides redundant power to single-corded equipment.



3000VA Automatic Transfer Switch

PowerChute® Network Shutdown Software allows for simultaneous management of two UPSs. Supports multiple servers as well as 2N configurations. Servers with one primary and one redundant power supply can be plugged into separate UPSs.

Economy

Input Power Factor Correction increases safety and compliance with regional wiring/electrical standards. Also reduces the utility power and wiring costs.

Adaptability

Rack/Tower Convertible gives Smart-UPS RT a flexible form factor enabling integration into a wide variety of end-user environments.

1:1 and 3:1 Combined in a Single Product allows the same product to be wired to a single-phase or a three-phase input. This feature is available in Smart-UPS RT 7500/10000 VA models only.

Multiple Output Voltages 230 VAC nominal output voltage can be programmed for 220 or 240 VAC operation.

Auto-sensing and Programmable Frequency automatically provides 50 or 60 Hz. The end user can also set output frequency to desired tolerance levels.

Flash Programmable Firmware makes the UPS field-upgradeable.

Terminal Mode Programmability is a menu-driven interface that allows quick and easy configuration of the UPS. Ideal for users not using PowerChute® software or a management card.

Built-in SmartSlot houses APC's accessory cards, which increase overall system manageability through timely notification of hazardous conditions.



APC accessory cards can be inserted into the built-in SmartSlot to allow monitoring of power conditions. The Smart-UPS RT 5000, 7500, and 10,000 units ship bundled with the Web/SNMP Management Card

INFORMATIVE LED DISPLAY PROVIDES STATUS AT A GLANCE

- A Load Display** shows the power being drawn by the load so you can avoid exceeding capacity.
- B On-line LED** lights when the UPS is drawing utility power and performing double conversion to supply clean power.
- C On-Battery LED** lights and alarm sounds when the UPS is supplying battery power to the load.
- D Bypass LED** lights when unit is operating in bypass mode.
- E Overload LED** lights and alarm sounds when the load connected to the UPS exceeds capacity.
- F Fault LED** lights when unit is experiencing an internal fault.



- G Replace Battery** lights and alarm sounds when the UPS battery is nearly dead and must be replaced (typically within 30 days).
- H Battery Charge/Line Voltage** displays both present battery charge as a percentage of battery capacity and utility line voltage. Alarm sounds upon low battery condition.
- I Off Button** turns off the UPS and the load and is designed to prevent accidental shutdowns.
- J On/test button** turns on the UPS and activates the UPS self-test and utility line voltage displays.

Display can be rotated 90° for correct orientation as unit is shifted from tower to rack configuration.

Smart-UPS® Management Enhancements

UPS Management

PowerChute Business Edition

UPS management and safe system shutdown for servers and workstations.

- 5 Node basic version included with Smart-UPS RT 1000/2000/3000/5000VA models.
- 25 Node Deluxe versions also available



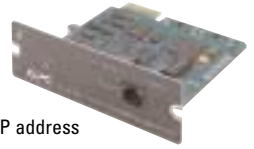
| Which version of PowerChute Business Edition is right for you? | Basic | Deluxe |
|--|-------|--------|
| Graceful, unattended, system shutdown | ✓ | ✓ |
| Hibernation and "Shutdown-and-off" option* | ✓ | ✓ |
| Risk Assessment Summary | ✓ | ✓ |
| Manage up to 5 UPSs centrally | ✓ | ✓ |
| Get the advanced features you need | | |
| Get the advanced features you need | | ✓ |
| manage up to 25 UPSs centrally | | ✓ |
| Identify periodic power disturbances | | ✓ |
| Create unattended "silent" installs for mass deployment* | | ✓ |
| Discover UPSs in remote network segments | | ✓ |
| Minimize time-to-recovery for*, - Siebel - Lotus Notes/Domino - Microsoft SQL Server™ - Microsoft Internet Information Services (IIS) - Microsoft Exchange Server | | ✓ |

* Check APC's Web Site at www.apc.com for specific operating system and version support information.

UPS Network Management Card

Embedded management of UPSs protecting servers and networking equipment.

- Connect UPS directly to the network with a dedicated IP address
- Embedded technology enables the UPS to reboot hung equipment.
- Manage each APC UPS individually via web browser, telnet or SSH.
- Notification features inform you of problems as they occur.
- For protected servers, graceful unattended shutdown is provided in case of extended power outages.
- Included with Smart-UPS RT5000/7500/10000VA models.



UPS Out-of-Band Management

Embedded management of UPSs via external modem.



UPS Interface Expanders

Safe system shutdown for up to eight servers power by one UPS.



PowerView

Handheld control panel to configure and control APC UPSs.



UPS Remote Power Off Interface

Immediately turns off the power output of connected APC UPSs.



UPS Dry-contact Management

Control and monitor power through a dry-contact interface.



Environmental Management

Environmental Management System

Network manageable device enabling comprehensive environmental management



Sensors

Environmental and access sensors for use with APC solutions.



Environmental Monitoring Card

UPS enhancement card enabling monitoring of basic environmental conditions



Environmental Monitoring Unit

Networked appliance enabling monitoring of environmental conditions.



Network-Critical Physical Infrastructure Management

InfraStruXure™ Manager

Centralized management of your APC network critical physical infrastructure.

- Get Visibility to your Network-Critical Physical Infrastructure
- Monitor up to 1000 APC UPSs and Other APC Devices

- Browser-accessible Centralized Management
- Notification of Threatening Situations
- Plan for Changes in Availability, Power, Runtime or Cooling
- Integrates into your Preferred Management System



Wiring Devices/Hardware Accessories

Battery Packs

An unlimited number of rack/tower convertible external battery packs can be added to achieve desired levels of runtime. Smart-UPS® RT battery packs are hot-swappable so you never have to take down your mission-critical loads to service the unit.



SURT48XLBP (pictured) - Battery pack for Smart-UPS RT 1000/2000 VA models, 2U in a rack

SURT192XLBP - Battery pack for Smart-UPS RT 3000/5000/7500/10000 VA models, 3U in a rack

See page 6 for SURT48XLBP and SURT192XLBP technical specifications

Rail Kits

Enables a Smart-UPS RT UPS, battery pack and isolation transformer to be installed in either a 2-post or 4-post 19" rack.

AP9625 - 2-post rail kit for Smart-UPS RT

SURTRK - 4-post rail kit for Smart-UPS RT 1000/2000 VA models and SURT48XLBP

SURTRK2 - 4-post rail kit for Smart-UPS RT (3000/5000/7500/10000 VA models), SURT192XLBP, and SURT001/002



Service Bypass Units

Rack Mount/Wall Mount/Tower Service Bypass Panels featuring a quick transfer rate and Wraparound System Bypass. Includes rail kits.



SBP10KRMI4U



SBP5000RMI2U - Designed for 230V Smart-UPS RT 3000/5000VA; 2U inside the rack, 2x IEC 320 C19 and 8x IEC 320 C13 outlets

SBP10KRMI4U - Designed for 230V Smart-UPS RT 7500/10000VA; 4U inside the rack, 2x IEC 320 C19 and 8x IEC 320 C13 outlets

SBP5000RMI2U

Input Isolation Transformers

Input Isolation Transformers for use with Smart-UPS RT 3000/5000VA models. Provides isolated neutral to ground bond.



3000VA (SURT001)

- Black color
- 3U
- Rack/Tower Convertible

5000VA (SURT002)

- Black color
- 3U
- Rack/Tower Convertible

Automatic Transfer Switches

Provides redundant power to single corded equipment.

1400 VA (SU043)

Input plug: 2x IEC 320 C14
Output: 2x IEC 320 C13
Voltage in: 230V
Voltage out: 230V



3000 VA (SU044-1)

Input plug: 2x IEC 320 C20
Output: 2x IEC 320 C13, 1x IEC 320 C19
Voltage in: 230V
Voltage out: 230V



External Power Distribution Units (PDUs)

External Power Distribution Units For use with Smart-UPS RT 3000/5000/7500/10000VA models

| Model | Description | Part # | Mount/height | Input | Output | Voltage |
|------------------|---|--------|-----------------|-------------|---------------|---------|
| Basic Rack PDU | Provides power outlets for rack equipment | AP9559 | Horizontal/1 U | IEC320 C-20 | 10xC13, 2xC19 | 230/16A |
| | | AP9553 | Horizontal/1 U | IEC320 C-20 | 12xC13 | 230/16A |
| | | AP9554 | Vertical/Zero U | IEC320 C-20 | 14xC13 | 230/16A |
| | | AP9568 | Vertical/Zero U | IEC320 C-20 | 15xC13 | 230/10A |
| | | AP7552 | Vertical/Zero U | IEC320 C-20 | 20xC13, 4xC19 | 230/16A |
| Metered Rack PDU | Monitors the aggregate power consumption via a digital display. Provides power outlets for rack equipment | AP7621 | Vertical/Zero U | IEC320 C-20 | 21xC13, 4xC19 | 230/16A |
| | | AP7852 | Vertical/Zero U | IEC320 C-20 | 20xC13, 4xC19 | 230/16A |



AP9553



AP7851

Global Service Programs



APC Smart-UPS® RT Service Recommendations

APC Smart-UPS RTs are easy to install and maintain, but for customers who desire hands off service, APC can provide start-up and on-site services. Additionally, extended warranties are recommended for those customers who prefer to keep their UPS for extended periods of time.

Warranty Services

PowerPlan Extended Warranties

- Next business day replacement of unit/parts
- 24x7 telephone technical support

On-Site Support Service

- Next business day on-site replacement of unit/parts
- 24x7 telephone technical support

Replacement Battery Cartridges

- Genuine APC replacement batteries
- Use of Non-APC batteries voids APC's Equipment Protection Plan

Start-up Service

- Delivers the vital resources, expertise, and tools needed to quickly and efficiently implement APC solutions

Other Installation and Consulting Services

- Network Integration
- Power Audit Consulting Service

Smart-UPS RT Runtime Chart

| SURT1000XLI | | | | | | |
|--------------|-------|--------------|----------------|----------------|----------------|-----------------|
| VA | Watts | SURT1000XLI | +1 SURT48XLBP | +2 SURT48XLBP | +5 SURT48XLBP | +10 SURT48XLBP |
| 140 | 100 | 1h 16m | 5h 11m | 9h 23m | 22h 50m | 46h 44m |
| 280 | 200 | 43m | 3h 1m | 5h 30m | 13h 25m | 27h 30m |
| 420 | 300 | 29m | 2h 5m | 3h 50m | 9h 23m | 19h 16m |
| 570 | 400 | 21m | 1h 35m | 2h 55m | 7h 10m | 14h 43m |
| 710 | 500 | 16m | 1h 16m | 2h 20m | 5h 46m | 11h 52m |
| 1000 | 700 | 10m | 53m | 1h 39m | 4h 7m | 8h 29m |
| SURT2000XLI | | | | | | |
| VA | Watts | SURT2000XLI | +1 SURT48XLBP | +2 SURT48XLBP | +5 SURT48XLBP | +10 SURT48XLBP |
| 280 | 200 | 59m | 3h 47m | 6h 57m | 17h 31m | 37h 37m |
| 710 | 500 | 22m | 1h 33m | 2h 54m | 7h 23m | 15h 55m |
| 1140 | 800 | 12m | 55m | 1h 44m | 4h 30m | 9h 44m |
| 1420 | 1000 | 8m | 43m | 1h 21m | 3h 31m | 7h 38m |
| 1710 | 1200 | 6m | 34m | 1h 5m | 2h 52m | 6h 14m |
| 2000 | 1400 | 4m | 28m | 55m | 2h 24m | 5h 15m |
| SURT3000XLI | | | | | | |
| VA | Watts | SURT3000XLI | +1 SURT192XLBP | +2 SURT192XLBP | +5 SURT192XLBP | +10 SURT192XLBP |
| 710 | 500 | 1h 16m | 4h 23m | 7h 43m | 18h 20m | 37h 12m |
| 1140 | 800 | 46m | 2h 43m | 4h 48m | 11h 27m | 23h 16m |
| 1420 | 1000 | 36m | 2h 29m | 3h 48m | 9h 6m | 18h 31m |
| 1710 | 1200 | 29m | 1h 46m | 3h 8m | 7h 32m | 15h 19m |
| 2280 | 1600 | 20m | 1h 17m | 2h 18m | 5h 33m | 11h 19m |
| 3000 | 2100 | 14m | 57m | 1h 40m | 4h 15m | 8h 48m |
| SURT5000XLI | | | | | | |
| VA | Watts | SURT5000XLI | +1 SURT192XLBP | +2 SURT192XLBP | +5 SURT192XLBP | +10 SURT192XLBP |
| 1000 | 700 | 47m | 2h 44m | 4h 50m | 11h 33m | 23h 27m |
| 2000 | 1400 | 21m | 1h 18m | 2h 20m | 5h 38m | 11h 28m |
| 2570 | 1800 | 15m | 59m | 1h 46m | 4h 18m | 8h 47m |
| 3570 | 2500 | 9m | 41m | 1h 14m | 3h 1m | 6h 11m |
| 4280 | 3000 | 7m | 33m | 1h | 2h 28m | 5h 4m |
| 5000 | 3500 | 5m | 27m | 50m | 2h 5m | 4h 17m |
| SURT7500XLI | | | | | | |
| VA | Watts | SURT7500XLI | +1 SURT192XLBP | +2 SURT192XLBP | +5 SURT192XLBP | +10 SURT192XLBP |
| 875 | 700 | 1h 34m | 2h 54m | 4h 34m | 9h 50m | 19h 6m |
| 1250 | 1000 | 1h 6m | 2h 5m | 3h 17m | 7h 4m | 13h 46m |
| 2500 | 2000 | 32m | 1h 1m | 1hr 37m | 3h 33m | 6h 57m |
| 3125 | 2500 | 24m | 48m | 1h 17m | 2h 49m | 5h 31m |
| 3750 | 3000 | 19m | 39m | 1h 3m | 2h 19m | 4h 34m |
| 5000 | 4000 | 13m | 28m | 46m | 1h 42m | 3h 21m |
| 6250 | 5000 | 10m | 21m | 35m | 1h 19m | 2h 38m |
| 7500 | 6000 | 7m | 16m | 28m | 1h 5m | 2h 10m |
| SURT10000XLI | | | | | | |
| VA | Watts | SURT10000XLI | +1 SURT192XLBP | +2 SURT192XLBP | +5 SURT192XLBP | +10 SURT192XLBP |
| 1250 | 1000 | 1h 6m | 2h 5m | 3h 17m | 7h 4m | 13h 46m |
| 2500 | 2000 | 32m | 1h 1m | 1h 37m | 3h 33m | 6h 57m |
| 3750 | 3000 | 19m | 39m | 1h 3m | 2h 19m | 4h 34m |
| 3125 | 4000 | 13m | 28m | 46m | 1h 42m | 3h 21m |
| 6250 | 5000 | 10m | 21m | 35m | 1h 19 | 2h 38m |
| 7500 | 6000 | 7m | 16m | 28m | 1h 5m | 2h 10m |
| 8750 | 7000 | 5m | 13m | 23m | 55m | 1h 49m |
| 10000 | 8000 | 4m | 11m | 20m | 47m | 1h 34m |

Smart-UPS® RT Technical Specifications



| | Smart-UPS RT 1000 | Smart-UPS RT 2000 | Smart-UPS RT 3000 | Smart-UPS RT 5000 | Smart-UPS RT 7500 | Smart-UPS RT 10000 |
|---|---|------------------------|------------------------------|---|---|--------------------------|
| Output | | | | | | |
| Capacity | 1kVA/.7kW | 2kVA/1.4kW | 3kVA/2.1kW | 5kVA/3.5kW | 7.5kVA/6kW | 10kVA/8kW |
| Output Voltage | 230 (default), 220, 240 VAC (user selectable), single phase | | | | | |
| Output Voltage Regulation (Typical) | +/- 1% static, 5% dynamic | | | | | |
| Output Connections | (6) IEC C13 | | (8) IEC C13, (2) IEC C19 | | (4) IEC C13, (4) IEC C19, hardwire output terminal block | |
| Efficiency at Full Load, Nominal Line | 87% | 90% | 91% | 92% | 92% | 92% |
| Output Frequency (sync'd to mains) | 50 or 60 Hz, +/- 3Hz (auto-select default) [or 50 or 60 Hz +/-0.1Hz (user selectable)] | | | | | |
| Bypass | Automatic | | | Automatic/Manual | | |
| Overload Capacity | 105% - infinite, 125% - 1 min, 150% - 30 seconds | | | | | |
| Output Voltage Distortion | <3% for linear loads, <5% for non-linear loads | | | | | |
| Crest Factor | 3:1 | | | | | |
| Heat Dissipation (Watts), Nominal Line | 90 | 140 | 192 | 305 | 450 | 650 |
| Input | | | | | | |
| Nominal Input Voltage | 220, 230 (default), 240 VAC Single Ø | | | | 220, 230 (default), 240 VAC Single or Three Ø | |
| Input Frequency | 45-65 Hz Auto-selecting | | | | | |
| Input Connection | IEC C14 | IEC C20 | | Hardwire | | |
| Input Voltage Range | 160 - 280 VAC (at full load), 100 - 280 VAC (at half load) | | | | | |
| Input Power Factor at Full Load | >.95 | | | | | |
| Batteries | | | | | | |
| Battery Type | Maintenance-free, Sealed Lead-Acid, valve regulated, 3-6 years typical lifetime | | | | | |
| Recharge Time to 90% Capacity | < 3 Hours | < 4 Hours | < 3 Hours | | | |
| Communications and Management | | | | | | |
| Interface Port | 1) SmartSlot accessory port; (1) Serial communication port | | | (1) RJ-45 10/100 Base T Connection; (1) Serial Communication port | | |
| UPS Network Management Card with Environmental Monitoring | optional | | | included | | |
| Management Software included | PowerChute Business Edition for Windows NT/2000/XP, Novell Netware, Solaris, Linux RedHat, PowerChute <i>plus</i> for HP-UX and IBM AIX (Smart-UPS RT 5000 also ships with PowerChute Network Shutdown) | | | | PowerChute Network Shutdown for Windows NT/2000/XP, Novell Netware, AIX Solaris, Linux RedHat, HP-UX, IBM AIX | |
| Physical | | | | | | |
| Dimensions HxWxD (mm and inches) | 85x432x482 mm, 3.4x17x19 in | | 130x432x660 mm, 5.1x17x26 in | | 264x432x663 mm, 10.4x17x26.12 in | |
| U Height | 2 | | 3 | | 6 | |
| Weight net/shipping (kg) | 23/27.8 kg | 25/29.8 | 54.5/64 | | 111/129 | |
| Environmental | | | | | | |
| Operating Conditions | 3,000 m max elevation; 0-95% non-condensing humidity; 0-40° C | | | | | |
| Storage Conditions | 15,000 m max. elevation; 0-95% non-condensing humidity; -20 to 60° C | | | | | |
| Audible noise at 3 feet (1 m) | < 50 dB | | | < 55 dB | | |
| Warranty & Conformance | | | | | | |
| Approvals | BSMI; C-Tick; CE; EN 50091-1; EN 50091-2; VDE; EN 55022 Class A; EN 60950; EN 61000-3-2; GOST; JEON; PCBC; UL 1778; CSA; VCCI | | | | | |
| Warranty | 2 years, repair or replace, optional on-site warranties available, optional extended warranties available | | | | | |
| Ordering Guide | | | | | | |
| Tower UPS Part Number | SURT1000XLI | SURT2000XLI | SURT3000XLI | SURT5000XLI | SURT7500XLI | SURT10000XLI |
| Rack-mount UPS Part Number | SURT1000XLI (+) SURTRK | SURT2000XLI (+) SURTRK | SURT3000XLI (+) SURTRK2 | SURT5000XLI (+) SURTRK2 | SURT7500XLI (+) SURTRK2 | SURT10000XLI (+) SURTRK2 |
| Tower Battery Pack Part Number | SURT48XLBP | | | SURT192XLBP | | |
| Rack-mount Battery Pack Part Number | SURT48XLBP (+) SURTRK | | | SURT192XLBP (+) SURTRK2 | | |
| Replacement Battery Cartridge | RBC31 | RBC31 | RBC44 | RBC44 | 2x RBC44 | 2x RBC44 |

Battery Packs

| Models | Net Weight (kg) | Ship Weight (kg) | Rack Height | Max Dimensions | Ship Dimensions (mm/in) | For Use With: | RBC |
|-------------|-----------------|------------------|-------------|----------------------------------|--|---|-----------|
| SURT48XLBP | 29.6 | 32.3 | 2U | 85 x 432 x 483 3.34 x 17 x 19 | 287 x 630 x 595 11.3 x 24.8 x 23.4 | SURT1000XLI, SURT2000XLI | 2 x RBC31 |
| SURT192XLBP | 90.9 | 101.4 | 3U | 130 x 432 x 660 5.1 x 17 x 26 | 414 x 600 x 1000 16.3 x 23.6 x 39.4 | SURT3000XLI, SURT5000XLI SURT7500XLI, SURT10000XLI | 2 x RBC44 |

InfraStruXure™



POWER RACK AIR

Open, adaptable and integrated architecture for on-demand network-critical physical infrastructure

Type A: Scalable rack systems optimized for server room environments with 1-10 racks*. Each InfraStruXure™ Type A includes these integrated components:

Network Management Card EX with Environmental Monitoring

For built-in Web manageability, network shutdown, and environmental monitoring inside and outside of the racks.



NetShelter® VX

Optimal enclosure for the entire IT environment including servers, networking and storage devices.

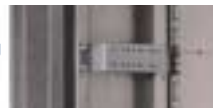
Rack-mount PDU

With digital metering to avoid overloading circuits. (Metered PDU not available on Smart-UPS less than 5kVA)



Cable Management

Brackets create ample space for running network cables safely out of the way.



Your Choice of UPS:

Symmetra® N+1 redundant

Modular, N+1 redundant 6 or 12kVA UPS with hot swap electronics and batteries and automatic system bypass.

Ideal for environments with:

- Mission-critical applications
- Mixed 120/208V loads
- Power density > 1.5kVA per rack
- Power density < 1.5 kVA per rack



Smart-UPS® Rack-mount

1.4, 3, or 5kVA UPS with hot swap batteries.

Ideal for environments with:

- Power density < 1.5 kVA per rack
- Less critical applications
- 220/230/240V loads



Smart-UPS® RT

1, 2, 3, 5, 7.5, or 10kVA UPS with hot swap batteries.

Ideal for environments with:

- Power density > 1.5 kVA per rack
- Power density < 1.5 kVA per rack
- 220/230/240V loads



With InfraStruXure™ Type A, one part number gives you a complete, pre-engineered solution that includes these integrated components, plus a three year warranty: NetShelter® VX, UPS, APC Network Management Card, Environmental Monitoring, Rack-mount PDU, and Cable Management. InfraStruXure is available from 1kW - 5MW.

For more information on InfraStruXure visit www.apc.com.

*Typical InfraStruXure configurations include Type A (1-10 racks), Type B (1-10 racks), Type C (100+ racks).

APC's manufacturing system is certified to ISO9001 & ISO14001 standards.



APC
Legendary Reliability™