



# 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.

## Contents

<b>Features and Benefits</b>	<b>p. 2</b>
<b>Management Peripherals</b>	<b>p. 3</b>
<b>UPS Wiring Devices and Hardware Accessories</b>	<b>p. 4</b>
<b>APC Global Service Programs</b>	<b>p. 5</b>
<b>Runtime Chart</b>	<b>p. 5</b>
<b>Technical Specifications</b>	<b>p. 6</b>
<b>InfraStruXure™ Type A</b>	<b>p. 7</b>

### 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.

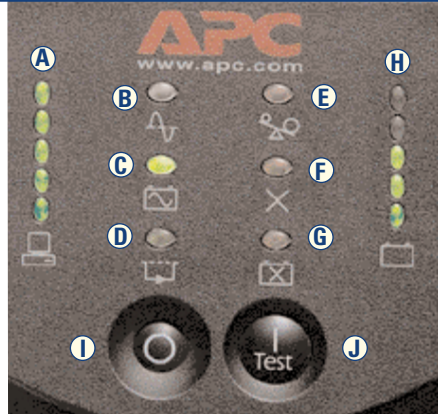
**Built-in SmartSlot** houses APC's accessory cards, which increase overall system manageability through timely notification of hazardous conditions.



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*, <ul style="list-style-type: none"><li>- Siebel</li><li>- Lotus Notes/Domino</li><li>- Microsoft SQL Server™</li><li>- Microsoft Internet Information Services (IIS)</li><li>- Microsoft Exchange Server</li></ul>		✓

\* Check APC's Web Site at [www.apc.com](http://www.apc.com) for specific operating system and version support information.

### 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

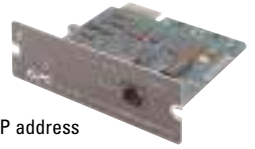
Environmental and access sensors for use with APC solutions.



### 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.



### 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, 2 x IEC 320 C19 and 8 x 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



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, hardware 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™

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](http://www.apc.com).

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

InfraStruXure™

POWER RACK AIR

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

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



**APC**  
Legendary Reliability™