CONNECTED

APC Datacomm Solutions
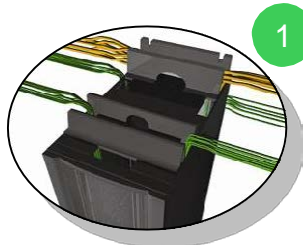
Life Is On | **APC**
by **Schneider** Electric

Table of Content

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NetShelter® SX Enclosures

More Standard Features -> Faster Installation

Heights – 24U, 42U, 45U, 48U, 52U
Widths – 600mm (24"), 750mm (30")
Depths – 1070mm (42"), 1200mm (47.5")
Colors – Black, White, Grey
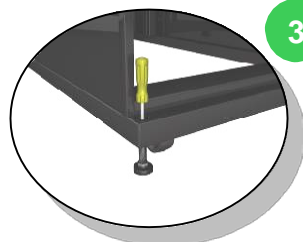
1

Cable Access Roof
- Eight cable entry slots
- Toolless mounting of overhead cable trough system
- Snap-in mounting for allow easy roof removal and installation with cables in place
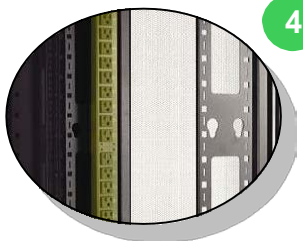
2

Integrated Baying Brackets
- Pre-Installed on frame front and back
- Spacing Options at 24 in or 600 mm
- Bays with other APC power and cooling products

3

Pre-installed Levelling Feet and Casters
- Easily adjustable levelling from top down
- Casters standard on all enclosures
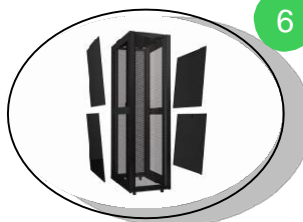
4

Toolless, Zero U Accessory Channel
- Toollessly mount PDUs
- Toollessly mount vertical cable organizers
- New cable fastening features

5

Easily Adjustable Vertical Mounting Rails
- Simple screw and cam engagement
- Captive screws - No loose hardware
- Easy visual alignment for quick adjustment
- ¼ inch increments through enclosure

6

HALF-HEIGHT SIDE PANELS
- Easy and safe handling
- Quick release latch
- Lockable - same key as doors
- Enclosure width the same with or without sides installed

Other standard features include:
- Integrated electrical bonding of sides, doors, roof and rails to frame
- Ventilated front and rear door
- Split-rear ventilated rear doors for better clearance in hot aisle
- Numbered U positions front and back.
- Open bottom for unobstructed under floor access
- 3000 lb static load, 2250 lb dynamic (rolling) load
- UL Listed
- EIA -310-E Compliant

designportal.apc.com

3

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NetShelter® SX Enclosures

Selection

NetShelter SKU	Height	Width	Depth	Application
AR3100	42U	600mm (24 in)	1070mm (42 in)	Low - Med Density Severs
AR3300	42U	600mm (24 in)	1200mm (47.5 in)	Med - High Density Servers
AR3107	48U	600mm (24 in)	1070mm (42 in)	Low - Med Density Severs
AR3307	48U	600mm (24 in)	1200mm (47.5 in)	Med - High Density Servers
AR3150	42U	750mm (30 in)	1070mm (42 in)	Networking and Blade Applications
AR3350	42U	750mm (30 in)	1200mm (47.5 in)	HD Networking and Blade Applications
AR3140	42U	750mm (30 in)	1070mm (42 in)	High Density Networking
AR3340	42U	750mm (30 in)	1200mm (47.5 in)	Very High Density Networking
AR3157	48U	750mm (30 in)	1070mm (42 in)	Networking and Blade Applications
AR3357	48U	750mm (30 in)	1200mm (47.5 in)	Networking and Blade Applications
AR3104	24U	600mm (24 in)	1070mm (42 in)	Remote Server Applications
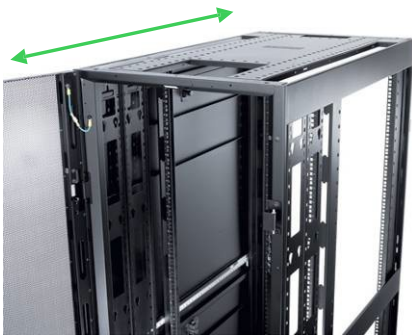
Applications For Depth

- 42 in (1070mm) is the standard depth and meets most low to med. density applications
- 47-48 in depth enclosures are becoming the new standard because of increasing server depth crowding cable and power space.
- The 47.5 in (1200mm) NetShelter has double the toolless mounting locations for more PDU and cable management options.

Applications For Height

- 24U Enclosures - Remote offices and small spaces
- 42U Enclosures – Standard height used globally, designed to fit through standard doorways
- 48U & 52U Enclosures – More U spaces for more equipment in the same footprint.

Applications For Width

- 24 in (600mm) wide enclosures are the standard for most server applications. For higher densities, see Depth.
- 30 in (750mm) wide enclosures offer more space for high capacity cable management and power distribution. Typically wider enclosures are used for Networking applications but the extra side space is often requested in Blade Sever applications.

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NetShelter® SX Networking Enclosure

Modified wide NetShelter SX design for improved networking application support and a superior solution for side airflow Cisco 6500 and 9500 series switches

AR3140 - 42U x 750mm W x 1070mm D
AR3340 - 42U x 750mm W x 1200mm D
AR3347 - 48U x 750mm W x 1200mm D

Cable Access Roof
- Extra large cable access slots for high density cabling and brush strips for air containment
- Two spring loaded pins allow for easy roof removal and installation with cables in place

Cable Management Mounting Rails
- Easily align rails and adjust in 1/4 inch increments
- Right vertical mounting rail opened for improved side airflow
- Left vertical mounting rail contains addition cable channel
- Rail position preset to accommodate Cisco switches and cable management

Side Airflow Duct Kit AR7715 – not included
- Single design for compatibility with Cisco 6509, 6513, 9509, 9513 switches
- Isolation of hot and cold aisle increasing equipment life
- Networking enclosure system compatible
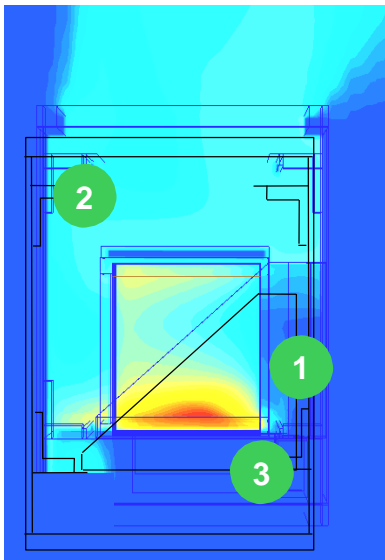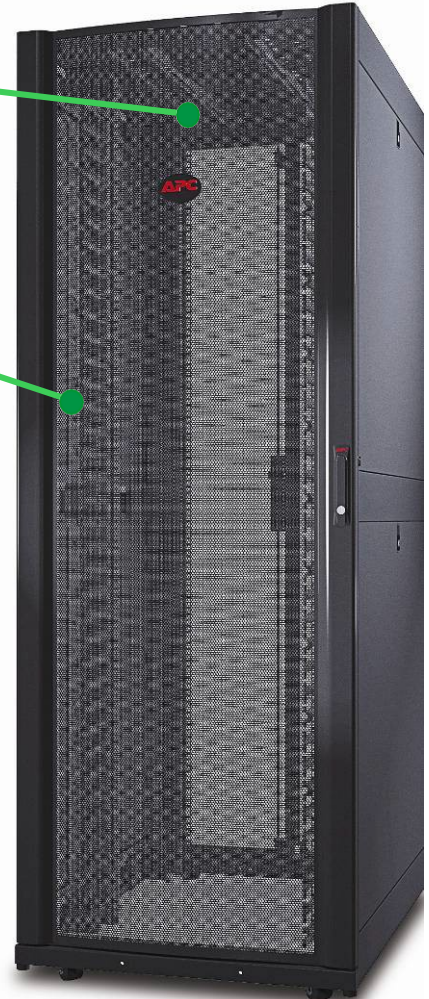
CFD Analysis on Cisco 6509 switch with side airflow duct kit

1. Duct kit directs cold air into intake and isolates hot air

2. Hot, exhaust air is directed to the rear of the enclosure

3. Cable routing does not affect airflow since the air pulled in from the top and bottom ducts

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NetShelter SX Cable Management

Networking and Server Applications

As the number of IT components within each rack enclosure continues to increase, so do the number of power and data cables. APC offers a large selection of vertical and horizontal cable managers to address today's cable routing demands. From toolless install managers for server applications to high density finger-type managers for support patching and switches, APC is a leader innovative, application driven solutions. APC's unique overhead cable management system turns the top of the enclosure into a cable tray eliminating the need to use space under a raised floor and permitting better organization in non-raised floor environments.

APC has become a leader in cable management for Networking applications. High capacity cable managers can be used to support fiber and cooper cable bundles.
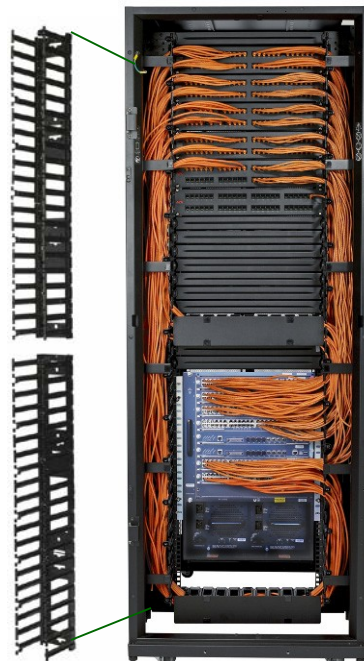
APC has a strong history supporting the server applications in data centers around the world. The innovative, toolless, snap-in accessories have become the benchmark for server cable management.

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NetShelter SX Cable Management

Vertical CableManagers

Toolless Vertical Cable Management

APC specializes in toolless install cable managers use of the zero U channels located in the rear of every SX enclosure.

- **AR8442** Ring type cable manager, fills one toolless bay, support 35 to 55 CAT 6A/CAT 6 data cables

- **AR7721, AR7722, AR7723** Lower-profile Vertical Cable Organizer with plastic cable guide at every U space

- **AR7710** Low profile cable containment cable manager, 6 pcs, Support 60 to 90 CAT 6ACAT 6 data cables

- **AR8443A** Vertical fiber spool manager, fills one toolless bay, 2 pcs

- **AR8621** Toolless hook and loop cable managers, 18" straps for large data cable bundles

AR8442   AR7721   AR8443A

AR7710   AR8621
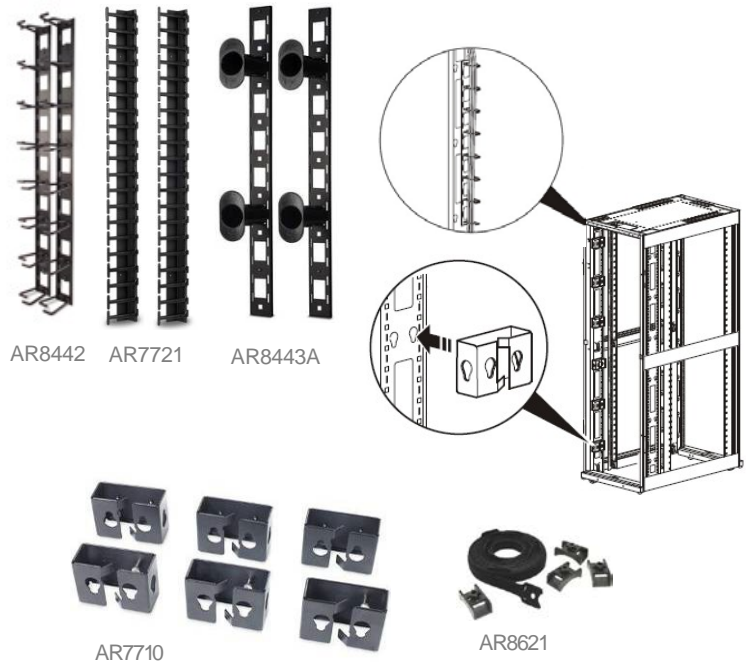
Vertical Cable Management for wide enclosures

The wider enclosures provide additional mounting of vertical managers on directly to the mounting rails.

- **AR7580A** High capacity vertical cable manager for NetShelter SX 750 mm wide enclosures supports 190 to 250 Cat6A/Cat6 data cables per section. 190 Cat6a. (.25" - .30" dia) per channel section. Each kit covers one corner of the enclosure

- **AR7581A** Hinged covers for AR7580A vertical cable managers

- **AR8444** Fiber slack spools for mounting to the 750mm wide enclosure mounting rails

AR7581   AR7580

AR8444

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NetShelter SX Cable Management
Horizontal Cable Managers

Finger Type Horizontal Cable Managers

Cable managers for patching and cross-over applications featuring, smooth radius plastic fingers protect the cable from kinking and binding. Hinged, snap-on covers provide a clean look and retain large cable bundles

• **AR8602A** – 1U horizontal cable manager with 4in fingers and snap-on cover

• **AR8600A** – 2U horizontal cable manager with 4in fingers and snap-on cover (Qty 2 = double sided configuration)

• **AR8603A** – 2U horizontal cable manager with 6 in fingers, rear cable pass-through holes and slots for AR8008/16 cable troughs, and snap on covers

AR8602A

AR8600A

AR8603A

Ring Type Horizontal Cable Managers

Economical cable managers for patching applications featuring various configurations to meet specific needs.

• **AR8113A** – Cable management rings, 5 large and 5 small

• **AR8425A** – 1U horizontal cable manager with 4 rings

• **AR8426A** – 2U horizontal cable manager with 4 rings

• **AR8428** – 2U horizontal cable manager with 4 rings, and pass- through holes

• **AR8427A** – 2U horizontal cable manager with multiple rings and small cable retainers

AR8425A

AR8428

AR8426A

AR8113A

AR8427A

Horizontal Cable Management Accessories

• **AR8429** – 1U cable pass-through manager with brush strip

• **AR8129** – Cable management arm for use with sliding shelves

• **AR8008BLK** – Horizontal cable side channel (18-30 in adjustment) for routing cable front-to-back between the wide rack mounting rails or AR8603 manager

• **AR8016ABLK** – Horizontal cable side channel (10-18in adjustment) for routing cable front-to-back between the wide rack mounting rails or AR8603 manager

AR8429

AR8129

AR8008BLK/ AR8016ABLK

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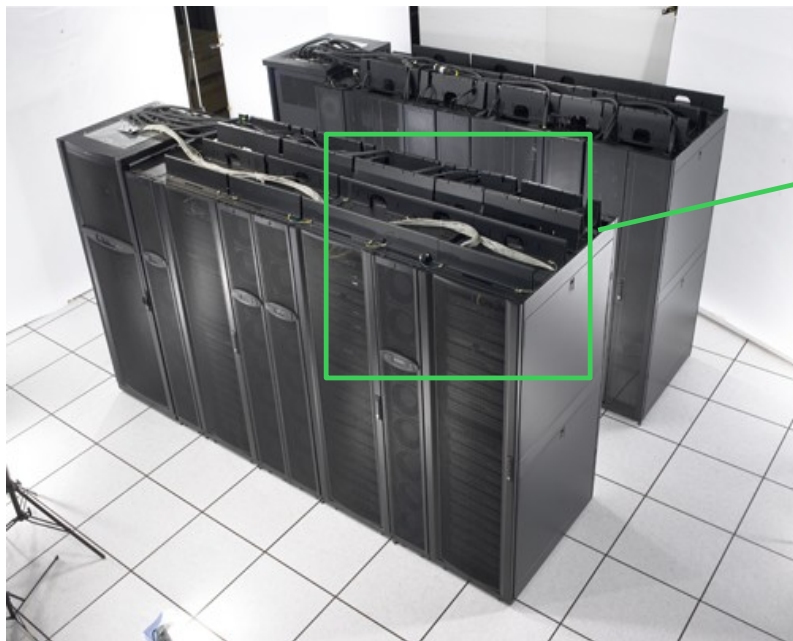
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NetShelter SX Cable Management
Overhead Troughs and Partitions

- NetShelter features an integrated system of troughs and partitions for routing power   and data cable across the top of the APC enclosures.
- Reduces the need for expensive suspended cable tray systems
- Installs toollessly with snap-in tabs

Data Cable Partitions

Power Cable Troughs

Cable Trough
- Supports power distribution cables
- Provides separation from data cable
- Data cables pass-through underneath to front partitioned area

AR8561 - Cable trough, 600mm enclosures
AR8574 – Cover for 600mm cable trough
AR8571 - Cable trough, 750mm enclosures
AR8575 – Cover for 750mm cable trough
AR8567 – Trough end cap for end of row

Pass-Through Data Partition
- Partitions the top of the enclosure into cable routing areas
- Pass-through hole provides cable access into multiple cable areas

AR8163ABLK- Pass-through data partition, 600mm enclosures
•**AR8173BLK -** Pass-through data partition, 750mm enclosures

Solid Data Partition
- Partitions the top of the enclosure into cable routing areas
- Solid face provides clean appearance at the front of the enclosure

AR8162ABLK - Solid data partition, 600mm enclosures
AR8172BLK - Solid data partition, 750mm enclosures

Cable Management

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Shelves and Mounting Hardware

Mounting accessories to aid in the installation of IT equipment and secure racks into position

Shelving

Fixed and sliding shelves to enable the mounting of tower units, monitors, and other equipment into the rack environment.

- **AR8105BLK** - Fixed Shelf 50lb/22.7kg, Black
- **AR8122BLK** - Fixed Shelf 250lb/114kg, Black
- **AR8123BLK** - Sliding Shelf 100lb/45.5kg, Black
- **AR8128BLK** - Double Sided Fixed Shelf for 2 post rack, Black
- **AR8126ABLK** - 17" Sliding Keyboard shelf, Black
- **AR8127BLK** - 19" Sliding Rotating Keyboard shelf, Black
- **AR8006A** - Misc. Equipment Support Rails for 600mm Wide Enclosure

AR8105BLK

AR8122BLK

AR8123BLK

AR8126ABLK/AR8127BLK

AR8128BLK

AR8006A
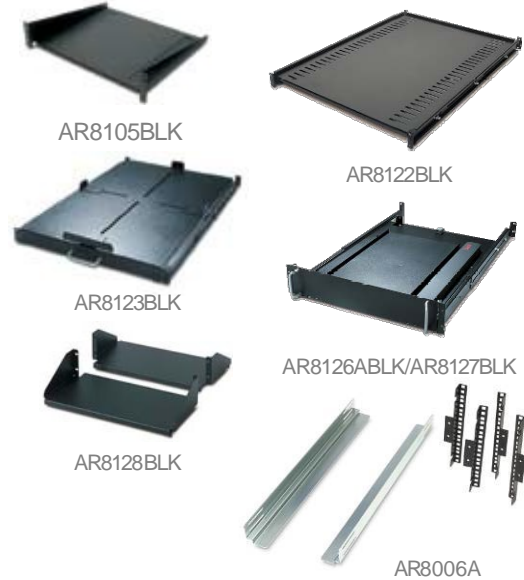
Mounting Brackets

Variety of mounting brackets for mounting IT equipment.

- **AR7711 -** Zero U Multi-purpose accessory mounting bracket for side mounting of 1U/2U products and PDUs
- **AR8150BLK -** 23in to 19in Mounting Adapter Brackets

AR7711

AR8150BLK

Hardware Kits

Available for additional hardware needs or to accommodate equipment mounted in varying mounting options. AR8100 shown.

- **AR8100 -** M6 Cage Nuts and Screws, Qty 32
- **AR8400** - #12-24 screws, Black, Qty 100
- **AR8005** - #10-32 cage nuts, Qty 36
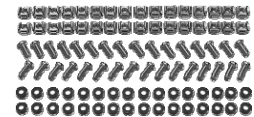
Bolt-Down and Stabilization

Stabilization plates and hardware to prevent tip-over in stand-alone rack applications and meet specific anchoring requirements.

- **AR7701 -** NetShelter SX Bolt-down kit - meets UBC seismic requirements
- **AR7700** - NetShelter SX stabilization plate to prevent tipping when sliding out equipment

AR7711

AR7700

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Rack Components

Replacement Doors, Side Panels, Roofs

Standard doors, side panels and roofs are available for all
enclosure sides at www.APC.com

Specialty Roofs, Side Panels and Accessories

- **AR7252** - Networking roof for high density cabling 750mm W x 1070mm D
- **AR7716** - Networking roof for high density cabling 750mm W x 1200mm D
- **AR7209** - Open roof support bridge for overhead troughs and partitions
- **AR7305** - NetShelter SX pass-through side panel 42U x 1070mm D
- **AR7714** - Replacement snap-in brush strips for SX roofs
- **ACF501** – Roof Fan for 600mm wide enclosures, 120 VAC
- **ACF502** – Roof Fan for 600mm wide enclosures, 208-230 VAC
- **ACF503** - Roof Fan for 750mm wide enclosures, 120 VAC
- **ACF504** – Roof Fan for 750mm wide enclosures, 208-230 VAC

AR7252/AR7716   AR7209

Roof Fan   AR7305

AR7714

Mounting Rails

Vertical EIA rail mounting kits for different widths and depths

- **AR7510 -** 23 in EIA mounting rails for 42U x 750 (30 in)
  wide enclosure

AR7510

Recessed Rail Kits – Intermediate mounting rails for
supporting shallow   depth equipment

- **AR7503 -** 42U x 600mm wide
- **AR7504 -** 48U x 600mm wide
- **AR7508 -** 42U x 750mm wide
- **AR7578 -** 48U x 750mm wide

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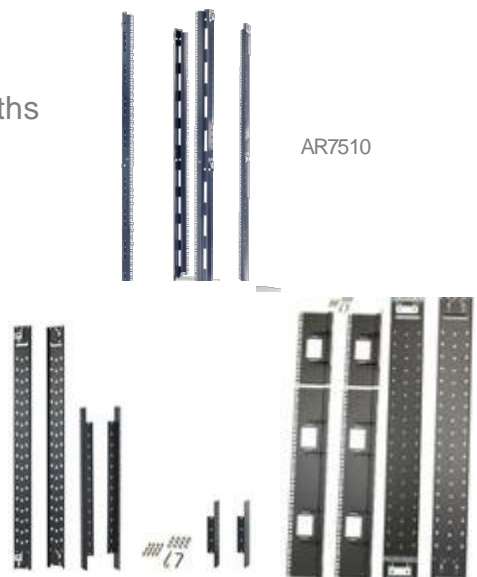
OpenFrame Racks

NetShelter® 2- and 4 Post Open Frame Racks

The NetShelter® 2 and 4 post open frame racks offer a quality solution for the economical installation of rack-mountable equipment, where security at the individual rack level is not required.

Open frame racks provide unobstructed airflow and fast, easy access to installed equipment, and can be paired with high density vertical cable managers for maximum cable volume.

The 2 Post Rack offers cost conscious customers a simple solution for supporting networking equipment and patching applications. The 4 post offers more strength and features, for supporting servers and networking equipment. Recent improvements to the 4 post racks increase cable management options and flexibility.

AR201 – 2 Post Rack

- Self squaring design
- 45U mounting spaces (84 in tall)
- Black Finish
- 6061-T6 Structural grade aluminum
- Weight Capacity (static load) 750.00 lbs (340.19 kg)

AR203A/AR204A – 4 Post Rack

- Threaded #12-24 holes (AR204A)
- Square holes for cage nuts and server mounts (AR203A)
- **New design for easier assembly**
- Steel Construction
- 44U mounting spaces (84 in tall)
- Black Finish
- Multiple toolless mounting points for hook and loop fasteners
- Multi-position PDU mounting bracket
- Reversible stabilization plates
- Grounding inserts
- Weight Capacity (static load) 2000.00 lbs (909 kg)

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Open Frame Racks

Vertical Cable Management

- Performance Vertical Cable Managers
- Fits two and four post open frame racks
- Similar look-and-feel to NetShelter™ enclosures
- 84" H, Single and Double-sided cable channel in 6,10,12-in wide options
- Slam to latch full length door opens to left or right
- New, best-in-class, high capacity cable finger design with smooth radius fingers at 1U increments for superior cable protection
- Cable management backplate (single-sided models) for toollessly mounting Rack PDUs and a variety of cable management accessories within the vertical cable manager
- Cable management midspan bracket(double-sided models) for toolless accessory installation and division of interior cable management space for deeper or shallower channel space
- Ships fully assembled

Single Sided
AR8615 – 6"
AR8635 – 10"
AR8665 – 12"

Double Sided
AR8625 – 6"
AR8645 – 10"
AR8675 – 12"

AR8444 – Cable Slack Spools

- Toollessly mounts on back panel
- Provides smooth radius support for cable slack

AR8621 – Toolless Hook and Loop Cable Manager

- 18" straps for large data cable bundles
- Various mounting positions on back panel of vertical cable managers

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Open Frame Rack
Vertical Cable Management

Valueline Vertical Cable Managers

- Fits two and four post open frame racks

- 84 in (2133mm) and 96 in (2438 mm) height, Single and Double-sided cable channel in 6, and 12-in wide options
    - 96" (2438 mm) Height in Single-side only

- Full length door assembles onsite and snaps in place and door opens to left or right

- New, best-in-class, high capacity cable finger design with smooth radius fingers at 1U increments for superior cable protection

- Cable management backplate for toollessly mounting cable management accessories within the vertical cable manager space

- Ships disassembled for assembly at end user site

	Single-sided	Double-sided
84" Height	AR8715 – 6" AR8765 – 12"	AR8725 – 6" AR8775 – 12"
96" Height	AR8728 – 6" AR8768 -12"	

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Additional Valueline Accessories

AR8736 & AR8737 Cable Retainer Brackets

•For creating multiple cable pathways within 2 and 4 Post Vertical Cable Managers
•Includes tie-off features for securing cabling using toolless hook-and-loop cable managers (AR8621)
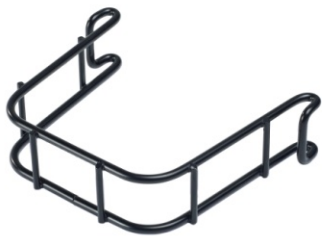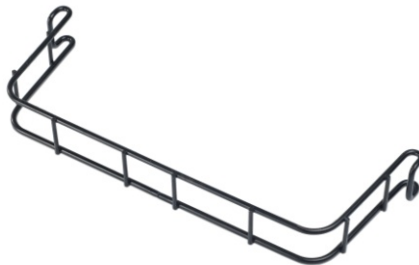

AR8736   **AR8737**

AR8444 - Spools for Vertical Fiber Organizer (qty 4)

•Four plastic spools for fiber management
•Toollessly mount to the accessory backplate front or rear

AR8621 – Hook-and-loop Cable Managers (qty 10)

• Secure, bundle, and separate cables
• Mount toollessly to the accessory backplate front or rear
• Hook-and-loop fastener straps used alone
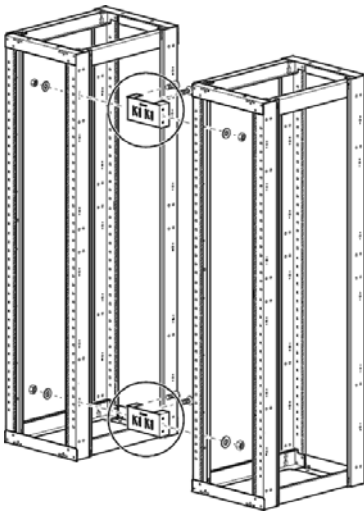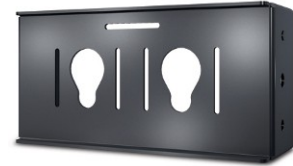
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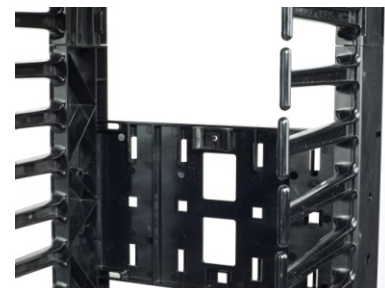
OpenFrame Racks
4 Post Accessories

AR8652 – PDU Mounting Bracket

•Mounts on sides as a spacer when using vertical cable managers between to racks

•Mounts on face of vertical rails, perpendicular, for single rack applications.

•Designed to toollessly mount APC PDUs

FRONT
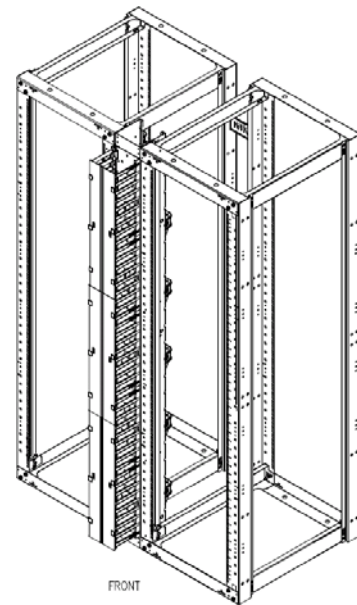
AR8450A – Trough and Partition Adapter

•Provides mounting locations for APC overhead trough and partition cable management system

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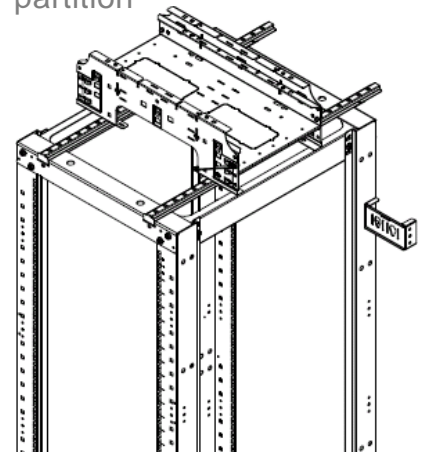
Specialty Enclosures

NetShelter Seismic Enclosure

Enclosure designed for essential facilities and carrier applications in seismic environments. Meets NEBS test standard GR-63-CORE Zone 4 at 1000 lb. (454.5kg) equipment load.

- **AR2144BLK** – 42U x 600mm (24") wide x 1070mm (42") deep, NEBS enclosure, with sides
- **AR2145BLK** – 42U x 600mm (24") wide x 1070mm (42") deep, NEBS enclosure, without sides

NetShelter CX Office

Conveniently support servers and networking equipment in a cool, quiet, secure, and attractive cabinet. This delivers and appealing, cost affective, alternative to building out a new computer room or deploying a loud metal enclosure in the open office.

- **AR4038A** – 38U Enclosure, with integrated 14 outlet PDU and cooling fans
- **AR4024A** – 24U Enclosure with integrated 14 outlet PDU and cooling fans
- **AR4018A** – 18U Enclosure with integrated 14 outlet PDU and cooling fans

NetShelter WX Wall-Mount Enclosure

Support remote patching and networking applications in a convenient wall-mount rack with a easy install rear hinged section, and reversible doors.

- **AR100** – 13U x 580mm (23") wide x 630mm (25") deep, wall mount enclosure with vented sides and glass front door
- **AR100HD** – 13U x 580mm (23") wide x 630mm (25") deep, wall mount enclosure with vented sides and full vented front door

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Cooling and Airflow Management

Blanking Panels

Covers open rack space to prevent air recirculation and reduce bypass airflow to improve cooling efficiency

- **AR8136BLK** – 1U toolless snap-in blanking panel, 10 pk
- **AR8136BLK200** – 1U toolless snap-in blanking panel, 200 pk
- **AR8108BLK** – 1U standard metal blanking panel 2 pk
- **AR8101BLK** – 1U, 2U, 4U, 8U, blanking panel kit
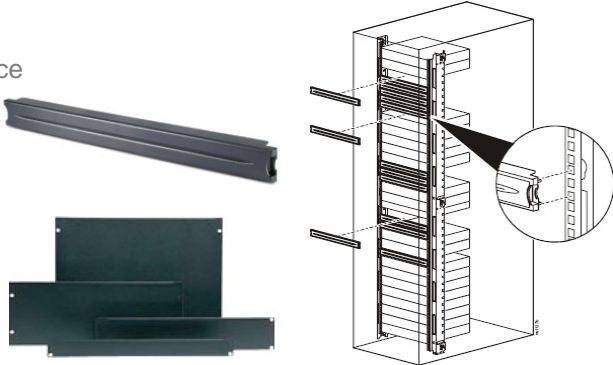
Side Airflow Cooling

Support cooling for small and large networking switches mounted within an enclosure

- **AR7715 - Side airflow duct kit for Cisco® 6509, 6513, 9509, and 9513 and 9500 series switches**
- Directs cool air at the front of the enclosure directly and predictably to the intake at the side of side airflow switches.
- Consists of two 2U ducts that act as diverters utilizing the existing fan power of the switch
- A baffle is located on the back of the switch and ducts to mitigate exhaust air from recirculating back into the air intake.
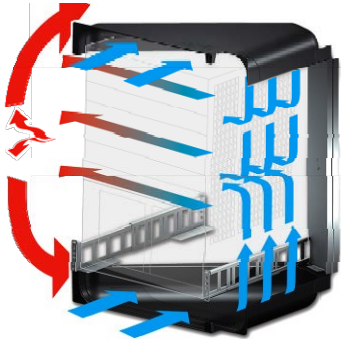
Rack Air Distribution/Removal Units

Fan assisted units to enhance air flow within an enclosure

- **ACF001 -** Air distribution unit, 2U
- **ACF201 -** Side air distribution unit, 2U
- **ACF400 -** Air removal unit for Netshelter 600mm enclo
- **ACF402 -** Air removal unit for Netshelter 750mm enclo

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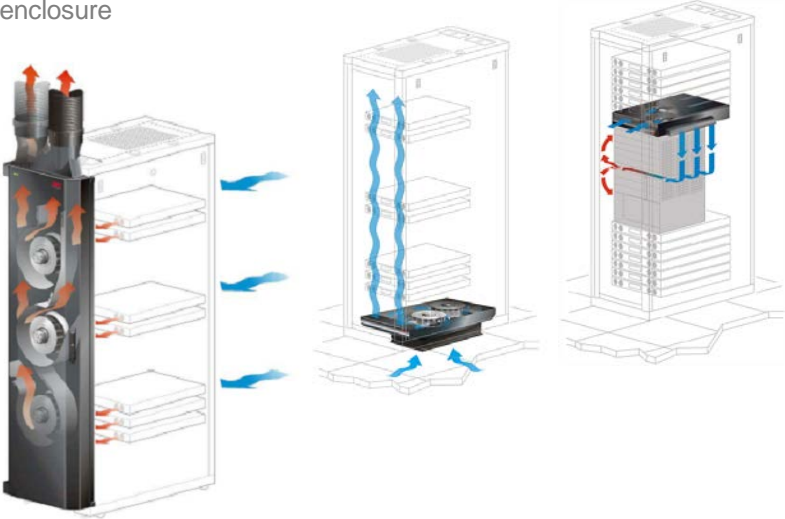
Cooling and Airflow Management

InRow Direct Expansion

An unpredictable environment is common among IT managers. In today's networking closets, traditional cooling approaches leave many customers guessing where the cold air goes. The InRow product design closely couples the cooling with the IT heat load, placing the unit in the row of racks moves the source of cooling closer to the heat load. This minimizes air mixing and provides a predictable cooling architecture.

• Variable capacity control
• Allows for low load handling capabilities
Top/bottom piping and power connection
• Flexibility of installation
• Field configurable
• Variable speed fans
• Reduce energy consumption during off-peak hours intelligence control
• Network manageability, real-time capacity monitoring, predictive failure notification, and rack inlet temp control

• **ACRD100** – 10kW DX air-cooled split cooling system
• **ACSC100** – 7kW DX air-cooled self-contained cooling system

Small Closet Cooling

Simplify cooling to small wiring closets and computer rooms by exhausting hot air from the closet to an adjacent space, allowing conditioned air to enter the space and cool the load.

ACF301 – Wiring Closet Ventilation Unit

• Flexible mounting allows for wall or ceiling installation.
• Optional remote notification provides visibility to cooling issues.

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Micro Data Centers

Complete IT infrastructure within a stand-alone, secure enclosure for protection of critical business applications. Include: power distribution, UPS, and environmental monitoring

Micro Data Center solutions enable faster, easier and more cost effective way to build and deploy Micro DCs at the network edge.

Designed to allow IT equipment to be installed by the customer, partner or integrator before shipment, it features complete data center physical infrastructure and management software in a single self-contained and secure enclosure.

Ideal for edge and IoT applications where deployment speed, reliability and security is paramount, Micro DCs are also certified by leading converged and hyperconverged IT vendors.

Benefits

- **Certified -** IT vendor validated architectures and solutions

- **Fast -** Pre-Installation of the physical layer makes it easy for customers, partners and integrators to quickly install IT equipment and deliver to final destination

- **Compatible -** Designed for the latest converged and hyperconverged IT systems

- **Secure -** Physically secure to prevent unauthorized access

- **Manageable -** Remote management of connected assets for maximum uptime and availability

Micro Data Center SX

- Distributed
- Commercial
- Open air
- Non-climate controlled

Micro Data Center CX

- Commercial
- Branch Office
- Non-ruggedized
- Noise reduction
- Fan ventilation

Micro Data Center FX

- Commercial
- Light Industrial
- Ruggedized
- Sealed
- Climate controlled

Micro Data Center Xpress

Micro Data Center Xpress includes 2 standard sku's

- Available with 2 weeks to shipment and 3 weeks to customer delivery
- Shock-packaging to allow IT equipment to be installed and shipped to customers
- Modify in the Local Edge Configurator

Local Edge Configurator

- Accessible on mobile, tablet and laptop browsers. https://designportal.apc.com
- Configure Xpress offer, and other racks along with accessories
- Search and add from a refreshed catalog of rack mountable equipment
- Drag and drop equipment into the rack
- Validate compatibility, UPS, weight
- Save a template for future use
- Get rack assembly and shipping reports

designportal.apc.com

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HyperPod

A rack-ready system designed to deploy IT at scale in increments of 8 to 12 racks

Benefits

- Implement efficient data centers, while maintaining flexibility and the ability to roll racks in and out

- Quickly install containment & infrastructure *before* IT racks are delivered

- Avoid costly, time consuming, and invasive construction

Power Distribution Options
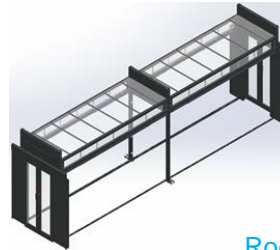
Roof & Ducting Options

Management

- Engineered for easy adds, moves, & changes, regardless of rack dimensions or quantity

- Designed to accommodate different cooling configurations

- Designed to support a variety of power distribution options

- Completion of pod infrastructure no longer dependent on IT racks

- Shift from construction to assembly reduces cost and time

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Rack Power Distribution

Global power densities are increasing and unpredictable. Whether deploying rack power distribution in a wiring closet, server room, or data center APC offers a consistent way to meet a variety of power density applications up to 22kW per strip.

APC Rack PDUs have sufficient power and receptacle outputs to meet high kW loads in a minimal amount of space. Their ease of installation accelerates speed of deployment and reduces installation costs. With rack power distribution APC offers real-time remote load monitoring of connected equipment and individual outlet power control for remote power recycling.

Types of Rack Power Distribution

> **Basic Rack PDU**
>> Entry-level power distribution for rack-mount equipment

> **Metered Rack PDU**
>> Enhanced power distribution includes monitoring of aggregate current consumption

> **Switched Rack PDU**
>> Premium power distribution allows remote control of individual outlets and monitoring of aggregate current consumption

> **Rack Automated Transfer Switch**
>> Provides redundant power to single-corded equipment

The Metered and Switched PDU offers advanced features for to meet today's datacenter demands.

> Monitors aggregate current power input and all breakers on the strip (local and remote)

> User-customizable warning and overload settings, plus automated alarm notifications

> Enables enhanced capacity management

> Network management

- Web Interface
- Telnet, SNMP
- Security
- APC ISX Central Integration

Load Indicator LEDs

Serial Connection Local configuration and out-of-band management

Local Current Monitoring Display

Network Management Access, configure, and receive warnings from remote locations via Web, SNMP, and Telnet

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Metered Rack Power Distribution

Real-time remote monitoring of connected loads and alarm warn of potential circuit overloads before critical IT failures occur
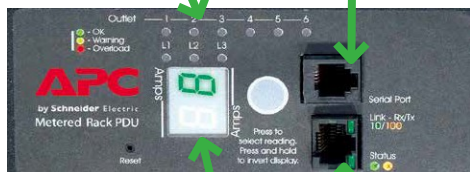
Voltage	Mounting U-space	Nominal voltage	Region	Input circuit	Nominal power	Input plug type	Output receptacles		Cord length	APC SKU
100 – 120 V input	Vertical, 0U	100 – 120	NAM, Japan	15 A	1.4 kW	NEMA 5-15P	(16) 5-15		3.0 m	AP8831
	Vertical, 0U	100 – 120	NAM	20 A	1.9 kW	NEMA L5-20P	(24) 5-20		3.0 m	AP8830
	Vertical, 0U	100 – 120	Japan	20 A	2.0 kW	NEMA L5-20P	(24) 5-15		3.0 m	AP8830J
	Vertical, 0U	100 – 120	Japan	20 A	1.9 kW	NEMA L5-20P	(10) 5-15		3.0 m	AP8833J
	Vertical, 0U	100 – 120	NAM, Japan	30 A	2.9 kW	NEMA L5-30P	(24) 5-20		3.0 m	AP8832
	Vertical, 0U	100 – 120	Japan	30 A	2.4 kW	NEMA L5-30P	(24) 5-15		3.0 m	AP8832J
	Horizontal, 1U	120	NAM, LAM	15 A	1.4 kW	NEMA 5-15P	(8) 5-15		3.6 m	AP7800B
	Horizontal, 1U	120	NAM, LAM	20 A	1.9 kW	NEMA L5-20P	(8) 5-20		3.6 m	AP7801B
	Horizontal, 2U	120	NAM, LAM	30 A	2.9 kW	NEMA L5-30P	(16) 5-20		3.6 m	AP7802B
	Horizontal, 2U	100	Japan	30 A	3.0 kW	NEMA L5-30P	(16) 5-15		3.6 m	AP7802BJ
200 – 240 V input	Vertical, 0U	230	Worldwide	10/15 A	2.3 kW	IEC-320 C14	(16) C13		3.0 m	AP7850B
	Vertical, 0U	100 – 240	Worldwide	16 A	3.3 kW	IEC-320 C20*	(18) C13	(2) C19	Inlet	AP8858
	Vertical, 0U	100 – 240	EMEA, APJ	16 A	3.7 kW	IEC-309 16 A	(18) C13	(2) C19	3.0 m	AP8858EU3
	Vertical, 0U	100 – 240	NAM, LAM GCN, APJ	20 A	3.3 kW	NEMA L6-20P	(18) C13	(2) C19	3.0 m	AP8858NA3
	Vertical, 0U	200 – 240	NAM, Japan LAM	30 A	5.0 kW	NEMA L6-30P	(36)C13	(6) C19	3.0 m	AP8841
	Vertical, 0U	208	NAM	30 A	5.8 kW	NEMA L14-30P	(16) 5-20 (2) C19	(12)	3.0 m	AP8870
	Vertical, 0U	220 – 240	LAM, EMEA GCN, APJ	32 A	7.4 kW	IEC-309 32 A	(36)C13	(6) C19	3.0 m	AP8853
	Horizontal, 1U	100 – 240	Worldwide	10/15 A	2.5 kW	IEC-320 C14*	(8) C13		Inlet	AP7820B
	Horizontal, 1U	100 – 240	Worldwide	16 A	3.3 kW	IEC-320 C20*	(8) C13		Inlet	AP7821B
	Horizontal, 2U	200 – 240	NAM	30 A	5.0 kW	NEMA L6-30P	(12) C13	(4) C19	3.6 m	AP7811B
	Horizontal, 2U	230	LAM, EMEA GCN, APJ	32A	7.4 kW	IEC-309 32 A	(12) C13	(4) C19	3.6 m	AP7822B

* See pages 20 – 21 for inlet power cord options

Rack PDU local display

Load indicator LEDs

Serial connection: local configuration and out-of-band management

User-interactive display for local access

Environmental monitoring port for external temperature/humidity probe

AP7000 series

Local two-digit LED current monitoring display

Network management: access, configure, and receive warnings from remote locations via Web, SNMP, and Telnet

AP8000 series

CAN In/Out ports for network port sharing

Local USB port for flash firmware updates and downloading data/event logs (not to be used as serial port)

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Metered Rack PDUs (continued ...)

Voltage	Mounting U-space	Nominal voltage	Region	Input circuit	Nominal power	Input plug type	Output receptacles		Cord length	APC SKU
208 V three-phase input	Vertical, 0U	208	NAM	20A, 3Φ	5.7 kW	NEMA L21-20P	(36) 5-20		3.0 m	AP8862
	Vertical, 0U	208	NAM	20 A, 3Φ	5.7 kW	NEMA L21-20P	(24) 5-20	(6) L6-20	3.0 m	AP8863
	Vertical, 0U	208	NAM	20 A, 3Φ	5.7 kW	NEMA L21-20P	(36) C13 (2) 5-20	(6) C19	1.8 m	AP8861
	Vertical, 0U	208	NAM	30 A, 3Φ	8.6 kW	NEMA L21-30P	(36) C13 (2) 5-20	(6) C19	1.8 m	AP8865
	Vertical, 0U	200 – 240	NAM	50 A, 3Φ	10.0 kW	CS8365C	(36) C13	(6) C19	1.8 m	AP8868
	Vertical, 0U	200 – 240	NAM	50 A, 3Φ	14.4 kW	CS8365C	(24) C13 (2) L6-30	(4) C19	1.0 m	AP7869B
	Vertical, 0U	200 – 240	NAM	50 A, 3Φ	14.4 kW	CS8365C	(24) C13 (2) L6-30	(4) C19	3.0 m	AP7899B
	Vertical, 0U	200 – 240	NAM	60 A, 3Φ	17.3 kW	IEC-309 60 A 3P+PE	(12) C19	(6) C13	1.8 m	AP8866
	Vertical, 0U	200 – 240	NAM	60 A, 3Φ	17.3 kW	IEC-309 60 A 3P+PE	(30) C13		1.8 m	AP8867
400 – 415 V three-phase input	Vertical, 0U	400 – 415	Worldwide	16 A, 3Φ	11 kW	IEC-309 16 A 3P+N+PE	(36) C13	(6) C19	1.8 m	AP8881
	Vertical, 0U	415	NAM	30 A, 3Φ	17.3 kW	IEC-309 30 A 3P+N+PE	(12) C19	(30) C13	1.8 m	AP8887
	Vertical, 0U	400	LAM, EMEA, GCN, APJ	32 A, 3Φ	22 kW	IEC-309 32 A 3P+N+PE	(12) C19	(30) C13	1.8 m	AP8886
	Vertical, 0U	415	NAM	40 A, 3Φ	23 kW	IEC-309 60 A 3P+N+PE	(12) C19	(30) C13	1.8 m	AP8888

What is metered on AP8800, AP8400, AP8900, and AP8600 Series Rack PDUs?

- Device: Power and energy
- Phase: Current,* power, and voltage
- Internal circuit breaker (bank): Current*
- Outlet: Current, power, energy (AP8600 & AP8400 Series only)

Why do we meter?

- Device: rack level capacity change, planning, and efficiency calculations
- Phase: balance loads between phases to protect against tripping upstream branch circuit breakers
- Internal circuit breaker (bank): protect against tripping internal circuit breakers
- Outlet: detailed capacity change, equipment efficiency, and trends

*AP7000 series monitors current per phase and breaker only.

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Metered-by-outlet Rack PDUs

Metered-by-outlet Rack PDUs provide real-time remote monitoring of each individual outlet to empower IT professionals with the necessary tools for advanced data center energy management.

Voltage	Mounting U-space	Nominal voltage	Region	Input circuit	Nominal power	Input plug type		Output receptacles		Cord length	APC SKU
100 – 120 V input	Vertical, 0U	100 – 240	Worldwide	16 A	3.3 kW	IEC-320 C20*		(21) C13 (3) C19		3.0 m	AP8459WW
200 – 240 V input	Vertical, 0U	200 – 240	NAM, LAM, Japan	20 A	3.3 kW	NEMA L6-20P		(21) C13 (3) C19		3.0 m	AP8459NA3
	Vertical, 0U	200 – 240	LAM, EMEA, GCN, APJ	16 A	3.7 kW	IEC-309 16 A		(21) C13 (3) C19		3.0 m	AP8459EU3
	Vertical, 0U	200 – 240	NAM, Japan, LAM	30 A	5.0 kW	NEMA L6-30P		(21) C13 (3) C19		3.0 m	AP8441
	Vertical, 0U	200 – 240	LAM, EMEA, GCN, APJ	32 A	7.4 kW	IEC-309 32 A		(21) C13 (3) C19		3.0 m	AP8453
208 V three-phase	Vertical, 0U	208	NAM	20A, 3Φ	5.7 kW	NEMA L21-20P		(21) C13 (3) C19		1.8 m	AP8461
400 – 415 V three-phase input	Vertical, 0U	400 – 415	Worldwide	16A, 3Φ	11 kW	IEC-309 16 A 3P+N+PE		(21) C13 (3) C19		1.8 m	AP8481

* See pages 20 – 21 for inlet power cord options

Rack PDU software options

APC Intelligent Rack PDUs provide remote power utilization data and optional outlet control to allow data center managers to make informed decisions on load balancing and rightsizing IT environments to lower total cost of ownership. Latest feature additions include Cisco EnergyWise^{TM}, wireless sensor capability, and network port sharing.

Remote access to Intelligent Rack PDUs is available via:

• Web browser
• Telnet (CLI)
• SNMP

Integration with EcoStruxure IT

APC Rack PDUs, when combined with EcoStruxure IT, help provide an instant overview of data center operations with additional inventory management, PUE calculation, real-time device alarms, and location-based drill-down of power distribution.

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Switched Rack PDUs

Switched Rack PDUs provide advanced load monitoring combined with remote on/off switching control of individual outlets for power cycling, delayed power sequencing and outlet use management.

Voltage	Mounting U-space	Nominal voltage	Region	Input circuit	Nominal power	Input plug type	Output receptacles		Cord length	APC SKU
100 – 120 V input	Vertical, 0U	100 – 120	NAM, Japan	15 A	1.4 kW	NEMA 5-15P	(8) 5-15		3.0 m	AP8931
	Vertical, 0U	120	NAM	20 A	1.9 kW	NEMA L5-20P	(24) 5-20		3.0 m	AP8930
	Vertical, 0U	100	Japan	20 A	1.9 kW	NEMA L5-20P	(24) 5-15		3.0 m	AP8930J
	Vertical, 0U	120	NAM, Japan	30 A	2.9 kW	NEMA L5-30P	(24) 5-20		3.0 m	AP8932
	Horizontal, 1U	100 – 120	NAM, LAM	15 A	1.4 kW	NEMA 5-15P	(8) 5-15		3.6 m	AP7900B
	Horizontal, 1U	100 – 120	NAM	20 A	1.9 kW	NEMA L5-20P	(8) 5-20		3.6 m	AP7901B
	Horizontal, 2U	120	NAM	30 A	2.9 kW	NEMA L5-30P	(16) 5-20		3.6 m	AP7902B
	Horizontal, 2U	100	Japan	32 A	3.0 kW	NEMA L5-30P	(16) 5-15		3.6 m	AP7902BJ
200 – 240 V input	Vertical, 0U	230	EMEA, GCN, APJ	10 A	2.3 kW	IEC-320 C14*	(16) C13		3.0 m	AP7950B
	Vertical, 0U	100 – 240	NAM, LAM	20 A	3.3 kW	NEMA L6-20P	(7) C13	(1) C19	3.0 m	AP8958NA3
	Vertical, 0U	100 – 240	Worldwide	16 A	3.3 kW	IEC-320 C20*	(7) C13	(1) C19	Inlet	AP8958
	Vertical, 0U	230	LAM, EMEA, GCN, APJ	16 A	3.7 kW	IEC-309 16 A	(7) C13	(1) C19	3.0 m	AP8958EU3
	Vertical, 0U	100 – 240	NAM, LAM	20 A	3.3 kW	NEMA L6-20P	(21) C13	(3) C19	3.0 m	AP8959NA3
	Vertical, 0U	100 – 240	Worldwide	16 A	3.3 kW	IEC-320 C20*	(21) C13	(3) C19	Inlet	AP8959
	Vertical, 0U	230	LAM, EMEA, GCN, APJ	16 A	3.7 kW	IEC-309 16 A	(21) C13	(3) C19	3.0 m	AP8959EU3
	Vertical, 0U	200 – 240	NAM, LAM	30 A	5.0 kW	NEMA L6-30P	(21) C13	(3) C19	3.0 m	AP8941
	Vertical, 0U	120 – 208	NAM	30 A	5.8 kW	NEMA L14-30P	(16) 5-20 (2) C19	(12) C13	3.0 m	AP8970
	Vertical, 0U	220 – 240	LAM, EMEA, GCN, APJ	32 A	7.4 kW	IEC-309 32 A	(21) C13	(3) C19	3.0 m	AP8953
	Horizontal, 1U	208 – 230	Worldwide	10/15 A	2.5 kW	IEC-320 C14*	(8) C13		2.0 m	AP7920B
	Horizontal, 1U	208 – 230	Worldwide	16 A	3.3 kW	IEC-320 C20*	(8) C13		2.4 m	AP7921B
	Horizontal, 2U	200 – 240	NAM	30 A	5.0 kW	NEMA L6-30P	(16) C13		3.6 m	AP7911B
	Horizontal, 2U	230	LAM, EMEA, GCN, APJ	32 A	7.4 kW	IEC-309 32 A	(16) C13		3.6 m	AP7922B
208 V three-phase input	Vertical, 0U	208	NAM	20 A, 3ø	5.7 kW	NEMA L21-20P	(21) C13	(3) C19	1.8 m	AP8961
	Vertical, 0U	208	NAM	20A, 3 Φ	6.0 kW	NEMA L21-20P	(24) 5-20		3.0 m	AP8962
	Vertical, 0U	208	NAM	30 A, 3ø	8.6 kW	NEMA L21-30P	(21) C13	(3) C19	1.8 m	AP8965
	Vertical, 0U	208	NAM	60A, 3 Φ	17.2 kW	IEC-309 60 A 3P & E	(20) C13	(12) C19	2 m	AP8966
	Vertical, 0U	208	NAM	60A, 3 Φ	17.2 kW	IEC-309 60 A 3P & E	(42) C13	(6) C19	2 m	AP8967
	Vertical, 0U	200 – 240	NAM	50 A, 3ø	12.5 kW	CS8365C	(21) C13	(3) C19	1.0 m	AP7968B
	Vertical, 0U	200 – 240	NAM	50 A, 3ø	12.5 kW	CS8365C	(21) C13	(3) C19	3.0 m	AP7998B
400 – 415 V three-phase input	Vertical, 0U	400 – 415	Worldwide	16 A, 3ø	11 kW	IEC-309 16 A 3P+N+PE	(21) C13	(3) C19	1.8 m	AP8981

* See pages 20 – 21 for inlet power cord options

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Metered-by-outlet with Switching Rack PDUs

Metered-by-outlet with Switching Rack PDUs provide real-time remote monitoring of each individual outlet combined with remote on/off outlet switching control to empower IT professionals with the necessary tools for complete control of their power distribution and advanced data center energy management.

Voltage	Mounting U-space	Nominal voltage	Region	Input circuit	Nominal power	Input plug type	Output receptacles	Cord length	APC SKU
100–120 V input	Vertical, 0U	100-120	NAM, Japan	30 A	2.9 kW	NEMA L5-30P	(24) 5-20	3.0 m	AP8632
200–240 V input	Vertical, 0U	208	NAM	20 A	3.3 kW	NEMA L6-20P	(21) C13 (3) C19	3.0 m	AP8659NA3
	Vertical, 0U	100–240	Worldwide	20 A	3.3 kW	IEC-320 C20*	(21) C13 (3) C19	Inlet	AP8659
	Vertical, 0U	230	LAM, EMEA, GCN, APJ	16 A	3.7 kW	IEC-309 16 A	(21) C13 (3) C19	3.0 m	AP8659EU3
	Vertical, 0U	200–240	NAM, Japan LAM	30 A	5.0 kW	NEMA L6-30P	(21) C13 (3) C19	3.0 m	AP8641
	Vertical, 0U	220–240	LAM, EMEA, GCN, APJ	32 A	7.4 kW	IEC-309 32 A	(21) C13 (3) C19	3.0 m	AP8653
208 V three-phase input	Vertical, 0U	208	NAM	20 A, 3ø	5.7 kW	NEMA L21-20P	(21) C13 (3) C19	1.8 m	AP8661
400–415 V three-phase input	Vertical, 0U	400–415	Worldwide	16 A, 3ø	11 kW	IEC-309 16 A 3P+N+PE	(21) C13 (3) C19	1.8 m	AP8681

* See pages 20 – 21 for inlet power cord options

AP8661

Rack-mount transfer switch

Input voltage	Mounting U-space	Input circuit	Input plug type	Output receptacles	Cord length	APC SKU
100 V	1	20 A	NEMA L5-20P	(8) 5-15	2.4 m	AP4452J
100 – 120 V	1	15 A	NEMA 5-15P	(10) 5-15	2.4 m	AP4450
120 V	1	20 A	NEMA L5-20P	(10) 5-20	2.4 m	AP4452
120 V	2	30 A	NEMA L5-30P	(16) 5-20	2.4 m	AP4453
200 – 208 V	1	20 A	NEMA L6-20P	(8) C13, (1) C19	2.4 m	AP4430
200 – 208 V	2	30 A	NEMA L6-30P	(16) C13, (2) C19	2.4 m	AP4432
208 V	2	30 A	NEMA L6-30P	(1) L6-30R	2.4 m	AP4431
208 V	1	10 A	IEC-C14 Inlet	(12) C13	None	AP4433
208 V	1	20 A	IEC-C20 Inlet	(8) C13, (1) C19	None	AP4434
230 V	1	16 A	(2) IEC-309	(1) IEC-309	0.9 m	AP4422
230 V	2	32 A	IEC-309	(16) C13, (2) C19	2.4 m	AP4424

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Locking IEC power cords

PDU input			Server input		Cord length	Cords per SKU	APC SKU
IEC C14 straight			IEC-C13		0.6 m 1.2 m 1.8 m	6 6 6	AP8702S* AP8704S* AP8706S*
IEC C14 (three right, three left)			IEC-C13		0.6 m 1.2 m 1.8 m	6 6 6	AP8702R* AP8704R* AP8706R*
IEC C20 straight			IEC-C19		0.6 m 1.2 m 1.8 m	6 6 6	AP8712S AP8714S AP8716S
IEC C20 (three right, three left)			IEC-C19		0.6 m 1.2 m 1.8 m	6 6 6	AP8712R AP8714R AP8716R

*-NA and -WW designation are required in SKU numbers for AP870xS and AP870xR, e.g., AP8702S-NA.

Locking IEC power cords provide a mechanism to secure power cord connections to the Rack PDU when used with any AP8000 Series unit.

Input power cords

Input power cords for devices with C14 or C20 inlet

Nonlocking PDU input	Plug type		Cord length	APC SKU
IEC-C19 straight	NEMA L6-20P		3.7 m	AP9871
IEC-C19 straight	NEMA 5-20P		2.5 m	AP9872
IEC-C19 straight	NEMA L5-20P		2.5 m	AP9873
IEC-C19 straight	Shuko (CEE 7)		2.5 m	AP9875
IEC-C19 straight	IEC-309		2.5 m	AP9876
IEC-C13 straight	NEMA 5-15P		2.4 m	AP9893
IEC-C13 straight	NEMA L5-15P		2.4 m	AP9894
IEC-C19 straight	UK (BS1363)		2.4 m	AP9895
IEC-C19 straight	NEMA L6-30P		2.4 m	AP9896
IEC-C19 straight	Australia AS3112		3.7 m	AP9897

Locking PDU input	Plug type		Cord length	APC SKU
IEC-C19 straight	NEMA 5-15P		3.0 m	AP8750
IEC-C19 straight	NEMA 5-20P		3.0 m	AP8751
IEC-C19 straight	NEMA L5-20P		3.0 m	AP8752
IEC-C19 straight	NEMA L5-20P		3.0 m	AP8752J
IEC-C19 straight	NEMA L6-20P		3.0 m	AP8753
IEC-C19 straight	NEMA L6-20P		3.0 m	AP8753J
IEC-C19 straight	Australia AS3112		3.0 m	AP8754
IEC-C19 straight	Shuko (CEE 7)		3.0 m	AP8755
IEC-C19 straight	UK (BS1363)		3.0 m	AP8756
IEC-C19 straight	China (16A)		3.0 m	AP8757
IEC-C19 straight	IEC-309		3.0 m	AP8758
IEC-C19 straight	Rewireable		3.0 m	AP8759

Bracket kits

Description	APC SKU
Vertical, 0U mounting brackets for Dell® and Rittal® enclosures	AP7400*
Vertical, 0U mounting brackets for HP® enclosures	AP7406*
NetShelter™ SX and third-party racks, 0U accessory and PDU bracket	AR7711
Horizontal to vertical, 0U mounting bracket for horizontal 1U Rack PDUs	AR8417

*Brackets for AP7000 Series Rack PDUs only.

Environmental

Description	Connector type	Cord length	APC SKU
Temp. sensor	RJ-45	3.9 m	AP9335T
Temp. and humidity sensor	RJ-45	3.9 m	AP9335TH

Note: Environmental sensors only compatible with AP8000 Series Rack PDUs. Each Rack PDU includes one environmental sensor port for an optional sensor.

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Rack LCD Consoles

KVM switches

KVM switches with CAT-5 type connection

KVM switches with CAT-5 type connection	APC SKU
32-port digital enterprise IP KVM with virtual media, two remote users	KVM2132P
16-port digital enterprise IP KVM with virtual media and two remote users	KVM2116P
16-port digital IP KVM with virtual media, one remote user, and FIPS 140-2	KVM1116R
16-port analog KVM, one local user	KVM0116A
8-port analog KVM, one local user	KVM0108A
KVM USB server module	KVM-USB
KVM PS/2 server module	KVM-PS2
KVM USB server module with virtual media	KVM-USBVM
KVM PS/2 server module with virtual media	KVM-PS2VM
KVM USB server module with virtual media and CAC support	KVM-USBVMCAC
KVM DVI Server Module with Virtual Media	KMV-DVIVMCAC
KVM HDMI Server Module with Virtual Media	KVMHDMIVMCAC
KVM serial server module	KVM-SERIAL
KVM to APC Rack PDU power management cable	AP5641
KVM 1U bracket for rear mount behind Rack LCD console	KVM-LCDMOUNT
KVM access software license upgrade to enterprise (1,024 nodes)	SEKVM1024N

KVM switches with coaxial type connection

KVM switches with coaxial type connection	APC SKU
8-port analog KVM	AP5201
16-port analog KVM	AP5202

Rear view of AP5202

Cables for coaxial type connection	0.6 m	0.9 m	0.5 m	3.7 m	7.6 m
KVM USB cable			AP5253	AP5257	AP5261
KVM PS/2 cable		AP5264	AP5250	AP5254	AP5258
KVM Daisy-chain cable	AP5262		AP5263		

Rack LCD consoles	APC SKU
17" Rack LCD console	AP5717
19" Rack LCD console	AP5719

- Ultra-thin 17" or 19" LCD monitor
- Integrated keyboard with number pad
- USB port for external media
- Space-saving 1U design
- Touchpad mouse
- Easy to install
- Localized keyboard versions available; check www.apc.com for availability

Rack LCD console with integrated KVM switch	Cable length	APC SKU
17" Rack LCD console with integrated 8-port KVM switch	1.8 m	AP5808
17" Rack LCD console with integrated 16-port KVM switch	1.8 m	AP5816
KVM USB cable*	1.8 m	AP5821
KVM USB cable	3.0 m	AP5822
KVM USB cable	5.2 m	AP5823

* KVM PS/2 cables available, see "Cables for coaxial type connection" on lower left.

Rear view of AP5816

The functionality of a Rack LCD console and an analog KVM switch in one convenient package optimizes U-space in the rack environment and eliminates cable clutter. Daisy-chain with AP5201 or AP5202 for additional ports.

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Security and Monitoring

Security and Environmental Monitoring for Network Closets to Data Centers

Netbotz® Portfolio

Surveillance:
- Leverage NetBotz, Pelco IP and CCTV camera technology to monitor IT assets remotely
- StruxureWare Data Center Expert and the NetBotz Surveillance package allow multiple site camera views on a single page

Environmental Monitoring:
- Wide range of wired and wireless sensor support to monitor the health of your IT assets
- Temperature, humidity, leak, door, smoke, vibration, dew point, airflow, dry contact, 4-20mA, and 0-5V

Access Control:
- Control and manage access privileges for APC NetShelter SX, SV, and CX* enclosures over the network.
- View audit trails and remotely lock or unlock cabinets
- Alarm notifications indicate a compromised security state

Management Capabilities:
- Alarming allows alerts, multiple notification methods, scheduling, graph and video attachments, escalation.
- Integrate with StruxureWare Data Center Expert to manage multiple NetBotz devices through a single interface and view historical camera clips & alarms.

Note: NetBotz Access Control requires adapter kit for NetShelter CX

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Security and Monitoring

NetBotz Platform Comparison

	Rack Monitor 250	Room Monitor 355	Room Monitor 455	Rack Monitor 450	Rack Monitor 570
Image					
Ideal Locations	Areas where only environmental monitoring and/or rack access is needed.	Smaller spaces such as basic network closets.	Medium sized spaces such as larger network closets.	Medium sized spaces such as Server Rooms.	Larger environments like data centers where security and monitoring are both needed.
SKU #	NBRK0250	NBWL0355A NBWL0356A*	NBWL0455A NBWL0456A*	NBRK0451	NBRK0570
Mounting options	Rack-mount	Wall-mount	Wall-mount	Rack-mount	Rack-mount
APC Universal Sensors Supported	Temp, Humidity, Door, Spot Fluid, Vibration, Smoke	Temp, Humidity, Door, Spot Fluid, Vibration, Smoke	Temp, Humidity, Door, Spot Fluid, Vibration, Smoke	Temp, Humidity, Door, Spot Fluid, Vibration, Smoke, Rope Leak	Temp, Humidity, Door, Spot Fluid, Vibration, Smoke, Rope Leak
Integrated Sensors	N/A	Temperature, Humidity, Airflow, Dewpoint (Calculated), Camera Motion Sensor	Temperature, Humidity, Airflow, Dewpoint (Calculated), Camera Motion Sensor	N/A	N/A
# of Wired Sensors supported	42	4	16	18	78
# of Wireless Sensors Supported	47	N/A	47	47	47
# of Cameras supported	N/A	0 USB, 0 networked, 1 Integrated	3 USB, 2 networked, 1 Integrated	2 USB, 0 networked, 0 Integrated	4 USB, 4 networked, 0 Integrated
Cameras supported	N/A	**Appliance:** Integrated Camera	**USB:** NetBotz Camera Pod **Networked:** Pelco Sarix, Spectra IV, Spectra Mini IP, IP110, IP3701, IL10	**USB:** NetBotz Camera Pod	**USB:** NetBotz Camera Pod **Networked:** Pelco Sarix, Spectra IV, Spectra Mini IP, IP110, IP3701, IL10
# of Sensor Pods Supported	6	0	2	2	12
Wired Sensor Pods Supported	Sensor 150	N/A	Camera Pod 160, Sensor 150 and Sensor 155.	Camera Pod 160, Sensor 150 and Sensor 155.	Camera Pod 160, Sensor 150 and Sensor 155.
# of Universal Sensor Ports	6	4	4	6	6
# of Wireless Sensor Pods Supported	47	N/A	47	47	47
Other Connections Supported	Dry Contact, 0-5V, Relay Output, Switched Outlet	N/A	N/A	Dry Contact, 0-5V, 4-20mA Relay Output	Dry Contact, 0-5V, 4-20mA Relay Output
# of Rack Access Pods Supported	0**	0	2	0	13

*NBWL0356A and NBWL0456A includes POE injector (NBAC0303NA) to power the wall botz units
**NBRK0250 supports NBHN125 and NBHN1356 rack access handle kits, but not rack access pods.

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Security and Monitoring
Flexible access control for NetShelter SX, SV, and CX racks

NetBotz Rack Access Control NBACS125 and NBACS1356

- Configure individual proximity cards for access or schedule access to equipment for maintenance purposes.
- Control and manage rack access privileges from a Web browser.
- Perform audit trails on rack access.
- Receive alarm notification when the rack is in a compromised security state.
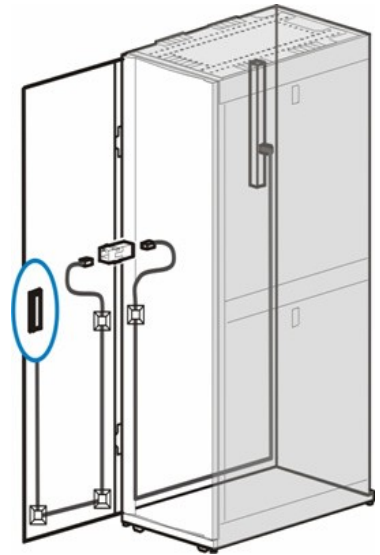
APC Rack Access Control Options

125 kHz Access Control (NBACS125)	13.56 MHz Access Control (NBACS1356)	Rack Access Pods (NBPD0171)

- Stand alone appliance for two handles to plug into (i.e. one appliance per rack)
- Supported Card types:
  - H10301 – Standard 26 Bit
  - H10302 – 37 Bit w/o facility code
  - H10304 – 37 bit w/ facility code
  - CORP1000
- Leverages the Netbotz 250 as the rack access appliance, allowing additional environmental monitoring if desired
- Central authentication via RADIUS
- Remote Syslog Capability

- Stand alone appliance for two handles to plug into (i.e. one appliance per rack)
- Supported Card types:
  - MIFAREC4 – Mifare Classic 4 byte
  - MIFAREC7 – Mifare Classic 7 byte
  - MIFAREDF – Mifare DESfire
  - MIFAREPL – Mifare Plus
  - iClass
- Leverages the Netbotz 250 as the rack access appliance, allowing additional environmental monitoring if desired
- Central authentication via RADIUS
- Remote Syslog Capability

- Rack access pod that is daisy chained off a Netbotz 570 or 455 appliance
- Supported Card types:
  - H10301 – Standard 26 Bit
  - H10302 – 37 Bit w/o facility code
  - H10304 – 37 bit w/ facility code
  - CORP1000
- Basement or 19" mounting
- Supports NetShelter SX, SV, and CX
- Supports up to 200 unique users

designportal.apc.com

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Instant visibility to critical infrastructure health

EcoStruxure
Innovation At Every Level

EcoStruxure IT Expert: efficient use of your time with cloud-based monitoring

Cloud-based vendor-neutral monitoring with EcoStruxure IT Expert

EcoStruxure IT Expert monitors and protects your critical equipment, providing 24/7 visibility through live data, smart alarming, and data-driven insights on the health of your connected assets directly to your smartphone.

EcoStruxure IT Expert synthesizes performance and alarming data into proactive recommendations, and enables secure, wherever-you-go visibility and control.

Real-time monitoring

Maintain uptime for data centers and distributed environments with cloud-based monitoring and management of alarms – ensuring peace of mind whether onsite or remote.

Multi-site remote management

Maintain an overview of your entire physical infrastructure – including lights out sites.

Smartphone app

Stay connected to your data center with live data & alarms on your EcoStruxure IT app.

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Cloud-based monitoring

Eco~struxure™
Innovation At Every Level

Vendor-neutral management
EcoStruxure IT Expert makes it easy to manage assets from different vendors by providing centralized management of all networked devices.

Proactive incident management
Gain insights into the current and future state of your distributed environment with wherever-you-go visibility, and recommendations on how to pro-actively handle incidents and improve efficiency.

Analytics and machine learning
Understand the root cause of an issue by removing alarm storms and identify the device where the alarms originate from – and then predict how devices will behave in the current conditions based on big data analytics.

The power of the cloud
EcoStruxure IT is Schneider Electric's next generation of IoT connected software and services, and collects data from all your connected devices across your distributed or hybrid IT environment.

EcoStruxure IT connects securely to the Schneider Electric Cloud, and delivers powerful insights made possible by big data analytics and machine learning.

Cloud-based software offers several benefits:
- Simplified deployment in 30 min.
- Global visibility, mobility and analytics-providing an instant health risk profile for the business across the hybrid environment.
- Benchmark your environment with other data centers world-wide, and apply trend-based analytics across the data for comparison.
- Software updates and backup are automatically applied, and cyber security is handled cloud-side for added convenience and security.
- Move from a capex to an opex subscription model for added financial flexibility.

Key features

Centralized real-time monitoring and alarm consolidation

Health status across the global environment (alarms & data)

vendor-neutral visibility and management

Analytics, industry benchmarks and actionable recommendations

Multi-sensor graphing & custom dasboards
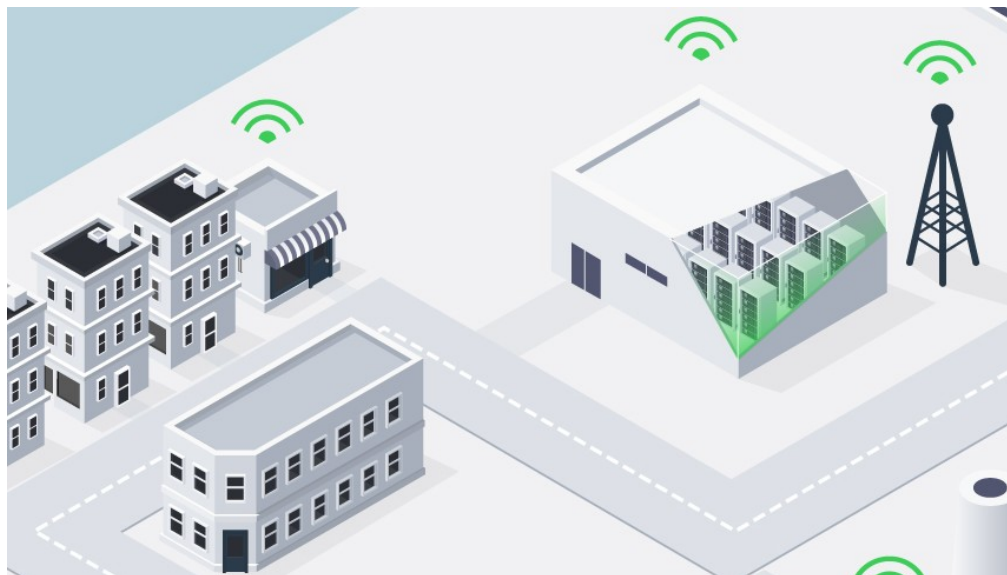
Life Is On

APC®
by **Schneider** Electric

Connected Smart-UPS with APC SmartConnect

The First Cloud-enabled UPS for Distributed IT

The world's most popular network and server UPS

Protect your servers, switches, routers and networking devices while providing battery backup power with Connected Smart-UPS™ with APC™ SmartConnect – the first cloud enabled UPS for distributed IT.

The cloud monitoring feature is accessible from any internet connected device, and maximizes the life and performance of your UPS by providing proactive advice and life cycle recommendations so you can remotely monitor your power infrastructure from anywhere in the world.

Tower 750-3000VA

Standard features:

1 **APC SmartConnect Port**
An ethernet port to connect your Smart-UPS to the APC SmartConnect Cloud

2 **High Efficiency Green Mode**
optimum efficiency which saves utility and cooling costs

3 **Network Grade Power Conditioning**
Extended range automatic voltage regulation (AVR), noise filtering and surge protection

4 **Alpha/numeric LCD Display**
Intuitive interface provides detailed and accurate information with ability to configure locally

5 **Communication Ports**
Serial, USB and Smart-slot for accessory cards

6 **Switched Outlet Group**
Reboot hung devices, shed non-critical loads to conserve runtime, sequenced start-up/turn off

7 **SmartSlot for Network Management Card**
SmartSlot for a potential network management card addition

by Schneider Electric

Connected Smart-UPS Features

The First Cloud-enabled UPS for Distributed IT

What is APC SmartConnect?

APC SmartConnect is an enabling feature that allows customers and Partners/MSPs to view the status of their UPS portfolio through a secure web portal. Through this innovative remote monitoring interface, you will receive automatic notifications, firmware updates, and advanced support.

APC SmartConnect's easy-to-use network connectivity provides added value — and more important — added peace of mind.

Embedded APC SmartConnect port

APC SmartConnect Enabled:

- Accessible from any internet connected device, on site or mobile

- Simple Registration and Account Log in

- Proactive actionable alerts and lifecycle recommendations

- Connected Smart-UPS adhere to the latest industry standards in secure data collection, data processing and operational security

- Compatible with major RMM platforms

- No special software, SNMP trap or coding required

Getting Started is Easy

1

Install your UPS

Install your SmartConnect-compatible UPS at your business site. Connect it to your network using a dedicated ethernet port.

2

Scan the QR code

Scan the QR Code printed on your Smart-UPS, and automatically register your device with the SmartConnect Web Portal.

3

Register your UPS

Create a Schneider Electric account to register your Smart-UPS. Your UPS will be automaticaly linked to your account.

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APC Smart-UPS Performance

Convertible extended run models ideal for critical servers and voice/data switches

Smart-UPS SMX 750-1500VA*

Additional features from standard:

1 Slim 2U Rack/Tower Convertible Form
Display rotates easily for use in or out of a rack.

2 High Frequency Design
Reduces size of (or eliminates) bulky transformers making installation even easier.

3 Models available with Pre-installed Network Cards
Models with "NC" suffix have pre-installed AP9631 network cards with temperature monitoring.

4 Smart External Battery Connector
Accept external batteries and increases runtime automatically to increase availability.

5 Switched Outlet Groups
Reboot hung devices, shed non-critical loads to conserve runtime, sequenced start- up/turn off.

6 Emergency Power Off (EPO)
Provides for remote UPS shutoff in the event of a fire or other emergency.

* NOT APC SmartConnect Enabled

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Smart-UPS Display

Intuitive, easy to use LCD interface

On all SMT and SMX models

1 **LCD Display Screen**
Clear, consistent and detailed
information in your choice of basic or
advanced menus.

Power Status:
•Operating mode and efficiency
•Load VA/Watts/Amps
•Input/Output Voltage and frequency
•Battery capacity and runtime
•Energy meter and more

Control:
•UPS and outlet group
settings

Configuration:
•Language
•Power quality setting
•Sensitivity
•Voltage transfer points
•Alarm, delay and threshold settings

Test and diagnostics:
•Initiate battery and runtime
calibration tests

Logs:
•See explanation of last ten transfers
and faults

About:
•UPS and replacement battery part numbers
•Serial numbers
•Battery install and suggested replacement
dates

2 **Quick Status Indicators** Online,
on battery, fault and replace
battery Leds for quick status
identification.

3 **Escape**
Exits to the previous menu
or screen.

4 **Return**
Used to enter or
confirm settings.

5 **Navigation arrows**
Allows quick adjustment
of settings.

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Standard Tower Models

Technical specifications

Product feature	SMT750C	SMT1000C	SMT1500C	SMT2200C	SMT3000C
Output					
Power Capacity	500W/ 750VA	700W/ 1000VA	1000W/ 1500VA	1980W/ 2200VA	2700W/ 3000VA
Nominal Output Voltage	120V				
Output Frequency	47 –53 Hz f or 50 Hz nominal; 57 –63 Hz f or 60 Hz nominal				
Wave Form Type	Sine wave				
Output Connections	(6)NEMA 5-15R	(8) NEMA 5-15R		(8) NEMA 5-15R (2) NEMA 5-20R	
Input					
Nominal Input Voltage	120V				
Input Voltage Range for main operations (Max adjustable range)	82-144V (75-154V)				
Input Frequency	50/60 Hz +/-3 Hz (auto sensing)				
Input Connection	NEMA 5-15P, 6ft cord			NEMA 5-20P	NEMA L5-30P
Batteries and Runtime					
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof				
Typical Backup Time at 1/2 Load (min)	15.9 min	20.6 min	23.9 min	24.1 min	13.6 min
Typical Backup Time at full Load (min)	5 min	6 min	7 min	7 min	6 min
Replacement Battery	RBC48	RBC6	RBC7	RBC55	
Communication and Management					
APC SmartConnect Enabled	Yes				
Interface Ports	Serial (RJ45), USB and Smart-Slot				
Control Panel and audible alarms	Alpha-numeric LCD display with LED status indicators; alarm on battery, distinctive low battery alarm and configurable delays				
Emergency Power off (EPO)	Optional			Yes	
Surge Protection and Filtering					
Surge Energy Rating	540J	459J			
Filtering	Full time multi-pole noise filtering: 0.3% IEEE surge let-through, zero clamping response time, meets UL1449				
Physical					
Maximum Height (in)	6.20in	8.50 in	8.50 in	17.0 in	17.0 in
Maximum Width (in)	5.40in	6.70 in	6.70 in	7.7 in	7.7 in
Maximum Depth (in)	14.10in	17.3 in	17.3 in	21.5 in	21.5 in
Net Weight	29 lbs	42 lbs	53 lbs	112 lbs	116 lbs
Conformance					
Regulatory	UL 1778, FCC Part 15 Class A, CSA				
Warranty and Equipment Protection Policy	3-Year on electronics, 2-Year on battery and $150,000 lifetime EPP				

apc.com/smartconnect

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Performance Run Rack/Tower Convertible Models

Technical specifications

Product feature	SMX750	SMX1000	SMX1500RM2U
Output			
Power Capacity	500W 750VA	800W 1000VA	1200W 1500VA
Nominal Output Voltage	120V		
Output Frequency	57-63Hz		
Wave Form Type	Sine wave		
Output Connections (NEMA)	(8) 5-15R (750 has 1 group, 1000 has 2, 1500 has 3)		
Input			
Nominal Input Voltage	120V		
Input Voltage Range for main operations (Max adj. range)	82-143V (75-153V)		
Input Frequency	50/60 Hz +/-3 Hz (auto sensing)		
Input Connection	NEMA 5-15P 8 ft cord		
Batteries and Runtime			
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof		
Typical Backup Time at ½ Load (min)	24 min	20 min	14 min
Typical Backup Time at full Load (min)	12 min	8 min	5 min
Replacement Battery	APCRBC116		APCRBC115
External Battery Pack	SMX48RMBP2U		
Communication and Management			
Interface Ports	Serial (RJ45), USB and Smart-Slot		
Control Panel and Alarms	Alpha-numeric LCD display with LED status indicators; alarm on battery, distinctive low battery alarm and configurable delays		
Emergency Power off (EPO)	Yes		
Surge Protection and Filtering			
Surge Energy Rating	645J		
Filtering	Full time multi-pole noise filtering: 0.3% IEEE surge let-through, zero clamping response time, meets UL1449		
Physical			
Maximum Height (in)	3.5 in (2U)		
Maximum Width (in)	17 in		
Maximum Depth	19 in		
Net Weight	49	50	55
Conformance			
Regulatory	UL 1778, FCC Part 15 Class A, CSA		
Warranty & Equipment Protection Policy	3-Year on electronics, 2-Year on battery and $150,000 lifetime EPP		

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Smart-UPS with Lithium-Ion Technology

Smart-UPS Lithium-Ion enables IT professionals to operate more effectively and decrease Total Cost of Ownership (TCO) by minimizing UPS maintenance and offering remote UPS management across distributed environments.

- Increase battery lifecycle 2X
- Reduce expenses over the lifetime of the UPS compared to UPSs with lead acid batteries by eliminating
    - cost of replacing batteries every 3-5 years
    - labor cost of changing the batteries
    - costs associated with shipping and recycling old batteries

- Excellent battery performance at higher ambient temperatures up to 104°F/40°C
- Greater voltage management of the battery discharge cycle
- Greater efficiency in charge and discharge of the batteries
- Easy installation and handling with lighter internal batteries
- Management options for remote UPS management
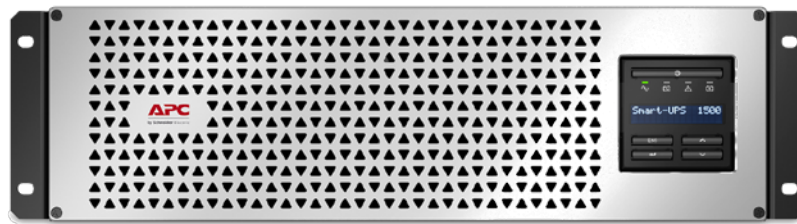
Features

High-efficiency Green Mode
Achieves up to 97 percent efficiency, which minimizes utility and cooling costs without compromising performance or reliability

Network-grade Power
Provides stable power conditions by filtering noise, automatic voltage regulation (AVR), and surge protection

Alphanumeric LCD Display
Intuitive interface provides detailed and accurate information with ability to configure locally

Built-in Energy Meter for East Energy Tracking
Measures energy use and displays UPS efficiency in various modes of operation

Intelligent Battery Management System
Li-ion batteries are monitored at an individual cell level to manage voltage and temperatures of the set of cells. This helps the Li-ion batteries to provide a higher level of safety

Operate Without Battery
Immediately protect equipment when power returns after a complete discharge of the battery

5-Year Warranty
Peace of mind with a 5-year warranty on both electronics and internal batteries

apc.com/us/en/campaign/lithium-ion-ups.jsp

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Smart-UPS Lithium-Ion SKU

Technical Specifications

	SMTL1500RM3UC
Topology	Line Interactive
Output	
Output Power Capacity	1350 Watts / 1500 VA
Nominal Output Voltage	120V
Output Voltage Distortion	Less than 2% at full load
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz (auto sensing)
Waveform Type	Sine wave
Output Connections	(6) NEMA 5-15R
Switched outlet Group	Yes/One
Efficiency at Full Load	>96%
Input	
Nominal Input Voltage	120V
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)
Input Connections	NEMA 5-15P
Input voltage range for main operations	82 – 144
Batteries & Runtime	
Battery Type	Lithium-Ion (LiFePo4)
Runtime	Please refer to www.apc.com for runtime charts
Communications & Management	
Interface Port(s)	Serial (RJ45), Smart-Slot, USB, APC SmartConnect (RJ45)
Available SmartSlot™ Interface Quantity	1
Control panel	Multi-function LCD status and control console
Audible Alarms	Yes
Physical	
Net HxWxD	5.14" x 17.25" x 12"
Rack Height	3U
Net Weight	43 lbs
Shipping Weight	50lbs
Shipping HxWxD	11" x 17.64" x 23"
Color	Black [Silver front bezel]
Environmental	
Operating Environment	32 - 104 °F (0 - 40 °C)
Operating Relative Humidity	0 - 95%
Operating Elevation	0-10000 feet (0-3000 meters)
Storage Temperature	-15 to 45 °C (-30 to 70°C without batteries)
Storage Relative Humidity	0 - 95%
Storage Elevation	0-50000 feet (0-15000 meters)
Audible noise at 1 meter from surface of unit	50.0dBA
Conformance	
Regulatory Approvals	UL 1778, UL 1973, CSA, NOM
Standard Warranty	5-Year UPS and Batteries

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Smart-UPS On-Line

Industry-leading power factor maximizing UPS density - Rackmount and Tower SRT 1 kVA to 10 kVA

The Smart-UPS On-Line is versatile UPS developed for unstable power conditions. It provides high-density, double-conversion online power protection for servers, voice/data networks, medical labs, and light industrial applications. The Smart-UPS On-Line is capable of supporting loads from 1 kVA to 10 kVA in a rack/tower convertible chassis.

The 6 kVA, 8 kVA, and 10 kVA models feature unity output power factor enabling them to support power-hungry blade servers or heavily loaded equipment racks. When business-critical systems require runtime in hours, not minutes, Smart-UPS On-Line can be configured with multiple battery packs to meet aggressive runtime demands.

SRT5KXLT shown

Standard features

Best-in-class power density

More real power in watts, 0.82 to 0.9 pf on the 1, 1.5, 2.2 and 3 kVA models. 0.85 pf on 5 kVA and Unity on 6 kVA – 10 kVA units.

High-efficiency "Green Mode"

Achieves 97% efficiency, which helps save utility and cooling costs without compromising performance or reliability. Energy Star® compliant.

Graphical LCD display with multicolor backlight

Intuitive interface provides detailed and accurate information with ability to configure locally.

Intelligent battery management

Temperature-compensated charging extends life and advanced algorithms recommend replacement date. The UPS can inform the user which batteries need to be replaced and auto detect when additional battery packs are added.

Built-in energy meter

Measures energy use and displays UPS efficiency in various modes of operation for easy energy tracking.

Operate without battery

Ability to immediately protect equipment when power returns after a complete discharge of the battery.

Three-year warranty on electronics

Additional year of warranty protection for electronics provides peace of mind.

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by Schneider Electric

Smart-UPS On-Line

Proven performance with the world's largest installed base of single-phase, double-conversion products Rackmount and Tower SRT 1 kVA – 10 kVA

SRT10KXLT shown

Additional features

Embedded network management card with environmental monitoring (5 kVA – 10 kVA models)

Remote monitoring and control of the UPS and the environment via Ethernet connection while freeing up the SmartSlot™ so customers can add accessories for additional communication options.

Switched outlet group(s)

Ability to control a group of output load receptacles independent from the main UPS. Enables:

- Rebooting hung device without cycling the entire UPS
- Sequenced turn on/off
- Shedding of noncritical loads based on a variety of parameters (battery time, runtime remaining, and overload)
- Scheduled time off to conserve energy

Emergency power off (EPO)

Remote UPS shutoff in the event of an emergency. The UPS can accept normally open (NO) or normally closed (NC) contacts.

Communication ports

Serial, USB, Ethernet, and SmartSlot for network accessory cards.

Communication protocols

Modbus Serial, USB PowerSummary, HTTP, SNMP, and Telnet.

Life Is On

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Smart-UPS On-Line

Intuitive, easy-to-use LCD provides clear and accurate
information in multiple languages

Backlight screens:
Amber: Indication of condition
that requires attention

Red: Indication of UPS alarm
that requires immediate attention

Standard features

LCD display screen

Accurately provides real-time status updates
in your choice of basic or advanced menus.

UPS status (scrolling)

- Output voltage
- Input voltage
- Output frequency
- Run time
- Load
- Battery health

Control

- UPS and outlet group settings
- Bypass control

Configuration

- Output voltage, frequency
- Language, brightness, contrast
- Audible alarm
- IP address

Test and diagnostics

- Initiate battery and runtime
  calibration tests

About

- UPS serial number, battery part number
- Battery install and suggested replacement dates

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Smart-UPS Online Accessories

Management cards

- AP9630: UPS network management card with PowerChute network shutdown
- AP9631: UPS network management card with PowerChute network shutdown & environmental monitoring
- AP9335TH: APC™ by Schneider Electric™ temperature & humidity sensor
- AP9635: UPS Network Management Card 2 w/ Environmental Monitoring, out of Band Access and Modbus
- AP9810: APC dry contact I/O accessory
- AP9624: UPS interface expander
- AP9613: dry contact I/O SmartSlot card

Battery packs

- SRT192BP: APC Smart-UPS SRT 192 V 5 kVA and 6 kVA battery pack
- SRT192RMBP: APC Smart-UPS SRT 192 V 5 kVA and 6 kVA RM battery pack
- SRT192BP2: APC Smart-UPS SRT 192 V 8 kVA and 10 kVA battery pack
- SRT192RMBP2: APC Smart-UPS SRT 192 V 8 kVA and 10 kVA RM battery pack
- SRT72BP: APC Smart-UPS SRT 72 V 2.2 kVA battery pack
- SRT72RMBP: APC Smart-UPS SRT 72 V 2.2 kVA RM battery pack
- SRT96BP: APC Smart-UPS SRT 96 V 3 kVA battery pack
- SRT96RMBP: APC Smart-UPS SRT 96 V 3 kVA RM battery pack
- SRT48BP: APC Smart-UPS SRT 48 V 1/1.5 kVA battery pack
- SRT48RMBP: APC Smart-UPS SRT 48 V 1/1.5 kVA RM battery pack
- SRT002: APC Smart-UPS SRT 15 ft.

extension cable for 192 VDC external battery packs 5/6 kVA UPS

- SRT003: APC Smart-UPS SRT 15 ft. extension cable for 192 VDC external battery packs 8/10 kVA UPS
- SRT009: APC Smart-UPS SRT 15 ft. extension cable for 72 VDC external battery pack 2.2 kVA UPS
- SRT010: APC Smart-UPS SRT 15 ft. extension cable for 96 VDC external battery pack 3 kVA UPS
- SRT013: APC Smart-UPS SRT 15 ft. extension cable for 48 VDC external battery pack 1/1.5 kVA UPS

Rail kits

- SRTRK2: APC Smart-UPS SRT 19 inch rail kit for Smart-UPS SRT 5/6/8/10 kVA
- SRTRK3: APC Smart-UPS SRT 2 post mounting rail kit for Smart-UPS SRT 1/1.5/2.2/3/5/6/8/10 kVA
- SRTRK4: APC Smart-UPS SRT 19 inch rail kit for Smart-UPS SRT 1/1.5/2.2/3 kVA

Backplate kit

- SRT001: APC Smart-UPS SRT 5 kVA output HW kit
- SRT004: APC Smart-UPS SRT 5 kVA PDU, 208 V (4) L6-20
- SRT005: APC Smart-UPS SRT 6 kVA PDU, 208 V (4) L6-20, (1) L6-30
- SRT008: APC Smart-UPS SRT 8/10 kVA PDU, 208 V (6) L6-30
- SRT011: APC Smart-UPS SRT 3 kVA PDU, 208 V (3) L6-30
- SRT012: APC Smart-UPS SRT 2.2/3 kVA input/output HW kit

Service bypass panels

- SBP5KRMT2U: APC service bypass panel — 200/208/240 V; 30 A; BBM; L6-30P input; (2) L6-30R (2) L6-20R output
- SBP6KRMT2U: APC service bypass panel — 200/208/240 V; 50 A; MBB; L6-30P/HW input; (1) L6-30R (2) L6-20R output
- SBP10KRMT4U: APC service bypass panel — 200/208/240 V; 100 A; MBB; hardwire input; (3) L6-30R (3) L6-20R output

Step-down transformers

- SRT5KTF: APC Smart-UPS SRT 5 kVA tower isolation/step-down transformer
- SRT5KRMTF: APC Smart-UPS 5 kVA 2U RM step-down transformer
- SRT10KRMTF: APC Smart-UPS SRT 10 kVA 4U RM step-down transformer

Other

- SURT013: SURT equipment cart

Replacement battery cartridge

- APCRBC140: RBC for SRT 5 kVA —10 kVA UPS
- APCRBC142: RBC for SRT 2.2 kVA UPS
- APCRBC152: RBC for SRT 3 kVA UPS
- APCRBC155: RBC for SRT 1/1.5 kVA UPS

Runtime estimates at half and full load (minutes)

UPS Half/Full Loads	SRT1000XLA (RM) (RM-NC) (450 W/900W)	SRT1500XLA (RM) (RM-NC) (675 W/1350W)	SRT2200XLA (RM)(RM-NC) (900 W/1,800W)	SRT3000XLA (RM) (RM-NC) (1,350 W/2,700W)	SRT3000XLT (RM) SRT3000XLW-IEC (RM) SRT3000RMXLT-NC (1,350 W/2,700W)
Internal	27.4/10	16/4.4	10.3/3.3	10.4/3.1	11.4/3.8
(1) Battery pack	88/41	61/21	50.5/19.9	45.6/17.1	46.4/20.5
(2) Battery packs	156/73	91/42	90.5/37.2	80.8/31.1	83.3/38.1

UPS Half/Full Loads	SRT5KRMXLW-HW 2,250 W/4,500 W	SRT5KXLT (RM) SRT5KXLT-IEC(RM) 2,125 W/4,250 W	SRT6KXLT (RM) SRT6KXLT-IEC (RM) 3,000 W/6,000 W	SRT8KXLT (RM) SRT8KXLT-IEC (RM) 4,000 W/8,000 W	SRT10KXLT (RM) SRT10KXLT-IEC (RM) 5,000 W/10,000 W
Internal	11.8/4	12.6/4.4	8.3/2.3	14.4/5.2	11.4/3.7
(1) Battery pack	46.2/20.5	49/21.8	34.7/14.9	34.2/14.6	27.9/11.5
(2) Battery packs	83/38	87.8/40.4	62.9/28.3	55/24.4	45.1/19.7

Life Is On

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Smart-UPS On-Line SRT 1000 VA & SRT 1500 VA 120V

Technical specifications

Product features	SRT1000XLA - SRT1000RMXLA SRT1000RMXLA-NC (Pre-installed NMC, AP9631)	SRT1500XLA - SRT1500RMXLA SRT1500RMXLA-NC (Pre-installed NMC, AP9631)
Output		
Power rating	1000 VA/900 W	1500 VA/1350 W
Nominal output voltage	120 V	
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)	
Topology	Double-conversion Online	
Online efficiency at full load (typical)	90% (ENERGY STAR)	
Green mode efficiency at full load (typical)	95%	
Output connections (switched groups)	(6) 5-15	(6) 5-15
Input		
Nominal input voltage	120 V	
Input voltage range full load (half load)	108 V – 150 VAC ±5V (50 – 150 VAC)	80 V – 150 VAC ±5V (50 – 150 VAC)
Input frequency	40 – 70 Hz auto-selecting	
Input connection	5-15P	
Batteries and runtime		
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof	
Typical backup time at 1/2 load (min.)	27	15.3
Typical backup time at full load (min.)	9.3	4.3
Replacement battery (quantity)	APCRBC155 (1)	
External battery pack (tower/rackmount)	SRT48BP/SRT48RMBP	
Communication and management		
Interface ports	Serial (RJ45), USB (Type A) and Smart-Slot	
Control panel	High resolution graphical LCD display	
Emergency power off (EPO)	Yes (NO/NC connections)	
Physical		
Rack height	3.35" (85 mm), 2U	
Maximum width (RM)	17" (432 mm)	
Maximum depth (RM)	20" (505 mm)	
Net weight	48.5 lb (22 kg)	
Conformance		
Regulatory Approvals	FCC Part 15 Class A, UL 1778-4, CSA C22.2 No.107.3-05	
Warranty	3 years electronics, 2 years battery	

Life Is On

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Smart-UPS On-Line SRT 2200 VA & SRT 3000 VA 120V

Technical specifications

Product features	SRT2200XLA - SRT2200RMXLA SRT2200RMXLA-NC (Pre-installed NMC, AP9631)	SRT3000XLA - SRT3000RMXLA SRT3000RMXLA-NC (Pre-installed NMC, AP9631)
Output		
Power rating	2200 VA/1800 W	3000 VA/2700 W
Nominal output voltage	120 V	
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)	
Topology	Double-conversion Online	
Online efficiency at full load (typical)	91.5% (ENERGY STAR)	
Green mode efficiency at full load (typical)	97%	
Output connections (switched groups)	(6) 5-20, (1) L5-20	(8) 5-20, (1) L5-30
Input		
Nominal input voltage	60 V	
Input voltage range full load (half load)	108 V – 150 VAC ±5V (60 – 150 VAC ±5V)	
Input frequency	40 – 70 Hz auto-selecting	
Input connection	5-20P	L5-30P
Batteries and runtime		
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof	
Typical backup time at 1/2 load (min.)	10.3	10.3
Typical backup time at full load (min.)	3.3	3.2
Replacement battery (quantity)	APCRBC141 (1)	APCRBC152 (1)
External battery pack (tower/rackmount)	SRT72BP/SRT72RMBP	SRT96BP/SRT96RMBP
Communication and management		
Interface ports	Serial (RJ45), USB (Type A) and Smart-Slot	
Control panel	High resolution graphical LCD display	
Emergency power off (EPO)	Yes (NO/NC connections)	
Physical		
Rack height	3.35" (85 mm), 2U	3.35" (85 mm), 2U
Maximum width (RM)	17" (432 mm)	17" (432 mm)
Maximum depth (RM)	2" (559 mm)	25 " (636 mm)
Net weight	55 lb (24.95 kg)	69 lb (31.3 kg)
Conformance		
Regulatory Approvals	FCC Part 15 Class A, UL 1778, CSA C22.2 No.107.3-05	
Warranty	3 years electronics, 2 years battery	

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Smart-UPS On-Line SRT 3000 VA 208V

Technical specifications

Product features	SRT3000XLW-IEC SRT3000RMXLW-IEC	SRT3000XLT - SRT3000RMXLT SRT3000RMXLT-NC (Pre-installed NMC, AP9631)
Output		
Power rating	3000 VA/2700 W	
Nominal output voltage	230 V (208 V, 220 V, 230 V, 240 V user selectable)	208 V (240 V user selectable)
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)	
Topology	Double-conversion Online	
Online efficiency at full load (typical)	91% (ENERGY STAR)	
Green mode efficiency at full load (typical)	97%	
Output connections (switched groups)	(4) IEC 320 C13 (2) IEC 320 C19	(2) L6-20 (1) L6-30
Input		
Nominal input voltage	230 V (208 V, 220 V, 240 V user selectable)	208 V (240 V user selectable)
Input voltage range full load (half load)	160 – 275 V (100 – 275 V)	
Input frequency	40 – 70 Hz auto-selecting	
Input connection	IEC 60320 C20, Schuko CEE 7/EU1-16P, British BS1363A	L6-20P
Batteries and runtime		
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof	
Typical backup time at 1/2 load (min.)	11.8 min	11.4 min
Typical backup time at full load (min.)	4.0 min	3.8 min
Replacement battery (quantity)	APCRBC152 (1)	
External battery pack (tower/rackmount)	SRT96BP/SRT96RMBP	
Communication and management		
Interface ports	Serial (RJ45), USB (Type A) and Smart-Slot	
Control panel	High resolution graphical LCD display	
Emergency power off (EPO)	Yes (NO/NC connections)	
Physical		
Rack height	3.35" (85 mm), 2U	
Maximum width (RM)	17" (432 mm)	
Maximum depth (RM)	25" (636 mm)	
Net weight	69 lb (31 kg)	
Conformance		
Regulatory Approvals	CE, VDE, RCM, and EAC, IEC/EN 62040-1, IEC/EN 62040-2, UL-1778, FCC Part 15 Class A, CSA	UL-1778, FCC Part 15 Class A, CSA
Warranty	3 years electronics, 2 years battery	

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Life Is On

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Smart-UPS On-Line SRT 3000 VA 120/208V

Technical specifications

Product features	SRT3000XLT-5KTF	SRT3000RMXLT-5KTF
Output		
Power rating	3000 VA/2700 W	
Nominal output voltage	120 V and 208 V (240 V user selectable)	
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)	
Topology	Double-conversion Online	
Online efficiency at full load (typical)	91% (ENERGY STAR)	
Green mode efficiency at full load (typical)	97%	
Output connections (switched groups)	(8) 5-20, (4) L6-20, (1) L6-30, (1) L14-30	(12) 5-20, (2) L6-20
Input		
Nominal input voltage	208 V (240 V user selectable)	
Input voltage range full load (half load)	160 – 275 V (100 – 275 V)	
Input frequency	40 – 70 Hz auto-selecting	
Input connection	L6-20P	
Batteries and runtime		
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof	
Typical backup time at 1/2 load (min.)	11.4 min	
Typical backup time at full load (min.)	3.8 min	
Replacement battery (quantity)	APCRBC152 (1)	
External battery pack (tower/rackmount)	SRT96BP/SRT96RMBP	
Communication and management		
Interface ports	Serial (RJ45), USB (Type A) and Smart-Slot	
Control panel	High resolution graphical LCD display	
Emergency power off (EPO)	Yes (NO/NC connections)	
Physical		
Rack height	Tower	6.7" (170 mm) 4U
Maximum width (RM)	8.45" (215 mm)	17" (432 mm)
Maximum depth (RM)	26" (660 mm)	25" (636 mm)
Net weight	194 lb (87.82 kg)	164 lb (74.18 kg)
Conformance		
Regulatory Approvals	UL-1778, FCC Part 15 Class A, CSA	
Warranty	3 years electronics, 2 years battery	

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Life Is On

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Smart-UPS On-Line SRT 5 kVA and 6 kVA 208V

Technical specifications

Product features	SRT5KRMXLW-HW	SRT5KXLT SRT5KRMXLT	SRT5KXLT-IEC SRT5KRMXLT-IEC	SRT6KXLT SRT6KRMXLT	SRT6KXLT-IEC SRT6KRMXLT-IEC
Output					
Power rating	5,000 VA/4,500 W	5,000 VA/4,250 W		6,000 VA/6,000 W	
Nominal output voltage	230 V (208, 220, 230, 240 V user selectable)	208 V (240 V user selectable)			
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)				
Topology	Double-conversion Online				
Online efficiency at full load (typical)	94% (ENERGY STAR)				
Green mode efficiency at full load (typical)	98%				
Output connections	HW	(2) L6-20R (2) L6-30R	(4) IEC 320 C13 (4) IEC 320 C19	(4) L6-20R (2) L6-30R, HW	(6) IEC 320 C13 (4) IEC 320 C19, HW
Input					
Nominal input voltage	230 V (208, 220, 230, 240 V user selectable)	208 V (240 V user selectable)			
Input voltage range full load (half load)	160 – 275 V (100 – 275 V)				
Input frequency	40 – 70 Hz auto-selecting				
Input connection	Hardwire 3-wire (L1+L2/N+G)	L6-30P		Hardwire 3-wire (L1+L2+G)	
Batteries and runtime					
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof				
Typical backup time at 1/2 load (min.)	11.8 min.	12.6 min.		8.3 min.	
Typical backup time at full load (min.)	4 min.	4.4 min.		2.3 min.	
Replacement battery (quantity)	APCRBC140 (1)				
External battery pack (tower/rackmount)	SRT192BP/SRT192RMBP				
Communication and management					
Interface ports	RJ-45 with status LEDs (10/100 Base-T), serial (RJ45), USB (Type B), and SmartSlot				
Control panel	High-resolution graphical LCD display				
Emergency power off (EPO)	Yes (NO/NC connections)				
Embedded network management with environmental monitoring	Yes				
Physical					
Rack height	3 U			4 U	
Maximum height rackmount SKU	5.1" (130 mm)			6.85" (174 mm)	
Maximum width rackmount SKU	17" (432 mm)			17" (432 mm)	
Maximum depth rackmount SKU	28.32" (719 mm)			28.32" (719 mm)	
Net weight	123 lbs (55.8 kg)			135 lbs (61.25 kg)	
Conformance					
Regulatory Approvals	CE, VDE, UL-1778, FCC Part 15 Class A, cUL	UL-1778, FCC Part 15 Class A, cUL, NOM			
Warranty	3 years for electronics, 2 years for battery				

Life Is On

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Smart-UPS On-Line SRT 5 kVA & 6 kVA 120/208V

Technical specifications

Product features	SRT5KXLT-5KTF	SRT5RMKXLT-5KTF	SRT6KXLT-5KTF	SRT6RMKXLT-5KTF
Output				
Power rating	5,000 VA/4,250 W		6,000 VA/6,000 W	
Nominal output voltage	208 V (240 V user selectable)			
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)			
Topology	Double-conversion Online			
Online efficiency at full load (typical)	94% (ENERGY STAR)			
Green mode efficiency at full load (typical)	98%			
Output connections	(8) 5-20, (4) L6-20, (2) L6-30, (1) L14-30	(12) 5-20, (2) L6-20, (1) L6-30	(8) 5-20, (4) L6-20, (3) L6-30, (1) L14-30, (1) Hardwire 3-wire (2PH + G)	(12) 5-20, (2) L6-20, (2) L6-30, (1) Hardwire 3-wire (2PH + G)
Input				
Nominal input voltage	208 V (240 V user selectable)			
Input voltage range full load (half load)	160 – 275 V (100 – 275 V)			
Input frequency	40 – 70 Hz auto-selecting			
Input connection	L6-30P		Hardwire 3-wire (L1+L2+G)	
Batteries and runtime				
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof			
Typical backup time at 1/2 load (min.)	12.6 min.		8.3 min.	
Typical backup time at full load (min.)	4.4 min.		2.3 min.	
Replacement battery (quantity)	APCRBC140 (1)			
External battery pack (tower/rackmount)	SRT192BP/SRT192RMBP			
Communication and management				
Interface ports	RJ-45 with status LEDs (10/100 Base-T), serial (RJ45), USB (Type B), and SmartSlot			
Control panel	High-resolution graphical LCD display			
Emergency power off (EPO)	Yes (NO/NC connections)			
Embedded network management with environmental monitoring	Yes			
Physical				
Rack height	Tower	5U	Tower	6U
Maximum height	17" (432 mm)	8.6" (219 mm)	17" (432 mm)	10.35" (263 mm)
Maximum width	10.2" (260 mm)	17" (432 mm)	11.95" (304 mm)	17" (432 mm)
Maximum depth	28.32" (719.4 mm)	28.32" (719.4 mm)	28.32" (719.4 mm)	28.32" (719.4 mm)
Net weight	248 lbs (112.62 kg)	218 lbs (98.98 kg)	260 lbs (118.07 kg)	230 lbs (104.43 kg)
Conformance				
Regulatory Approvals	UL-1778, FCC Part 15 Class A, cUL			
Warranty	3 years electronics, 2 years battery			

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Smart-UPS On-Line SRT 8 kVA & 10 kVA 208V

Technical specifications

Product features	SRT8KXLT SRT8KRMXLT	SRT8KXLT30 SRT8KRMXLT30	SRT8KXLT-IEC SRT8KRMXLT-IEC	SRT10KXLT SRT10KRMXLT	SRT10KXLT30 SRT10KRMXLT30	SRT10KXLT-IEC SRT10KRMXLT-IEC
Output						
Power rating	8,000 VA/8,000 W			10,000 VA/10,000 W		
Nominal output voltage	208 V (240 V user selectable)					
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)					
Topology	Double-conversion Online					
Online efficiency at full load (typical)	94% (ENERGY STAR)			93% (ENERGY STAR)		
Green mode efficiency at full load (typical)	98.5%			99%		
Output connections	(4) L6-20R (2) L6-30R, HW	(6) L6-30R, HW	(6) IEC 320 C13 (4) IEC 320 C19, HW	(4) L6-20R (2) L6-30R, HW	(6) L6-30R, HW	(6) IEC 320 C13 (4) IEC 320 C19, HW
Input						
Nominal input voltage	208 V (240 V user selectable)					
Input voltage range full load (half load)	160 – 275 V (100 – 275 V)					
Input frequency	40 – 70 Hz auto-selecting					
Input connection	Hardwire 3-wire (L1+L2+G)					
Batteries and runtime						
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof					
Typical backup time at 1/2 load (min.)	14.4 min.			11.4 min.		
Typical backup time at full load (min.)	5.2 min.			3.7 min.		
Replacement battery (quantity)	APCRBC140 (2)					
External battery pack (tower/rackmount)	SRT192BP2/SRT192RMBP2					
Communication and management						
Interface ports	RJ-45 with status LEDs (10/100 Base-T), serial (RJ45), USB (Type B), and SmartSlot					
Control panel	High-resolution graphical LCD display					
Emergency power off (EPO)	Yes (NO/NC connections)					
Embedded network management with environmental monitoring	Yes					
Physical						
Rack height	6U					
Maximum height rackmount SKU	10.35" (263 mm)					
Maximum width rackmount SKU	17" (432 mm)					
Maximum depth rackmount SKU	28.15" (715 mm)					
Net weight	246 lbs (111.82 kg)					
Conformance						
Regulatory Approvals	UL-1778, FCC Part 15 Class A, CSA C22.2 No.107.3-05, NOM					
Warranty	3 years electronics, 2 years battery					

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Smart-UPS On-Line SRT 8 kVA & 10 kVA 120/208V

Technical specifications

Product features	SRT8KXLT-5KTF	SRT8KRMXLT-5KTF	SRT10KRMXLT-10KTF	SRT10KXLT-5KTF2	SRT10KRMXLT-5KTF2
Output					
Power rating	8,000V A/8,000 W		10,000 VA/10,000 W		
Nominal output voltage	208 V (240 V user selectable)				
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)				
Topology	Double-conversion Online				
Online efficiency at full load (typical)	94% (ENERGY STAR)		93% (ENERGY STAR)		
Green mode efficiency at full load (typical)	98.5%		99%		
Output connections	(8) 5-20, (6) L6-20, (2) L6-30, (1) L14 30, (1) Hardwire 3-wire (2PH + G)	(12) 5-20, (4) L6-20, (1) L6-30, (1) Hardwire 3-wire (2PH + G)	(4) L6-20, (2) L6-30, (2) L5-20, (2) L14-30, (1) Hardwire 3-wire (2PH + G), (1) Hardwire 4-wire (2PH + N +G)	(16) 5-20, (4) L6-20, (6) L6-30, (2) L14-30, (1) Hardwire 3-wire 2PH + G)	(24) 5-20, (4) L6-30, (1) Hardwire 3-wire (2PH + G)
Input					
Nominal input voltage	208 V (240 V user selectable)				
Input voltage range full load (half load)	160 – 275 V (100 – 275 V)				
Input frequency	40 – 70 Hz auto-selecting				
Input connection	Hardwire 3-wire (L1+L2+G)				
Batteries and runtime					
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof				
Typical backup time at 1/2 load (min.)	14.4 min.		11.4 min.		
Typical backup time at full load (min.)	5.2 min.		3.7 min.		
Replacement battery (quantity)	APCRBC140 (2)				
External battery pack (tower/rackmount)	SRT192BP2/SRT192RMBP2				
Communication and management					
Interface ports	RJ-45 with status LEDs (10/100 Base-T), serial (RJ45), USB (Type B), and SmartSlot				
Control panel	High-resolution graphical LCD display				
Emergency power off (EPO)	Yes (NO/NC connections)				
Embedded network management with environmental monitoring	Yes				
Physical					
Rack height	Tower	8U	10U	Tower	10U
Maximum height	17" (432 mm)	13.85" (352 mm)	17.25" (438 mm)	17" (432 mm)	17.35" (441 mm)
Maximum width	15.45" (393 mm)	17" (432 mm)	17" (432 mm)	20.55" (523 mm)	17" (432 mm)
Maximum depth	28.15" (715 mm)	28.15" (715 mm)	29.5" (749 mm)	28.15" (715 mm)	28.15" (715 mm)
Net weight	371 lbs (168.4 kg)	341 lbs (154.76 kg)	466 lbs (211.58 kg)	496 lbs (225.22 kg)	436 lbs (197.94 kg)
Conformance					
Regulatory Approvals	UL-1778, FCC Part 15 Class A, CSA C22.2 No.107.3-05				
Warranty	3 years electronics, 2 years battery				

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