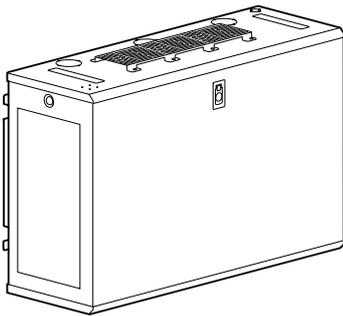


NetShelter WX Low-profile Cabinet

Installation and Customization Manual

990-6229-001
Release date 10/2019



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Product Overview

The APC by Schneider Electric NetShelter™ WX Low-profile cabinet provides storage for industry-standard (EIA/ECA-310) 482 mm (19 in) rack-mount hardware, including voice, data, networking, and networking equipment

Model	Mounting Width	Mounting Depth	Mounting Height	External Width*	External Depth	External Height
AR106V (cabinet with 120 V fan)	6U†	762 mm (30 in)	482 mm (19 in)	351.75 mm (13.85 in)	978.2 mm (38.5 in)	649.5 mm (25.6 in)
AR106VI (cabinet with 230 V fan)						

†One U= 44 mm (1.75 in)

*Includes 16.75 mm (0.65 in) mounting bracket

This unit has the following features:

- Black, perforated front panel with filter for ventilation.
- Rear with fans for ventilation.
- Large side panels for access to equipment.
- Locks on all panels.
- Fixed front and rear mounting flanges with square cage nut holes.

Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in death or serious injury.**

Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in death or serious injury.**

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in minor or moderate injury.**

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by APC by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Safety Information for the 6U Cabinet

DANGER

HAZARD OF ELECTRIC SHOCK

- Power supplied to the cabinet must be a dedicated branch circuit with ground.
- The cabinet must be connected to the building Common Bonding Network (CBN).

Failure to follow these instructions will result in death or serious injury.

WARNING

HEAVY EQUIPMENT HAZARD

- Installation must be performed by qualified personnel.
- Use at least two (2) people to move the cabinet.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

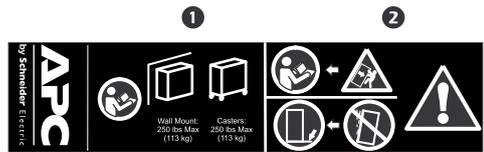
RISK OF EQUIPMENT DAMAGE

Ensure your fan is connected to a power source appropriate for its voltage. Check the *Specifications, page 26*.

Failure to follow these instructions can result in equipment damage.

Labels on the Cabinet

Weight Rating



The weight rating label shown above can be found on the cabinet, and serves to communicate the following information:

Section ❶: Weight capacity. The cabinet can be mounted on a wall or casters loaded with up to 113 kg (250 lb) of equipment.

Section ❷: Generic Tip Hazard.

Falling Equipment Hazard

⚠ WARNING

UNSECURED EQUIPMENT FALLING HAZARD



- Enclosure wall mount requires reinstallation of all four (4) T30 bolts.
- Enclosure is designed to support loads only with all four (4) mounting bolts installed. Failure to follow these instructions can result in death or serious injury.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

FCC

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference and 2. This device must accept any interference received that may cause undesired operation.

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

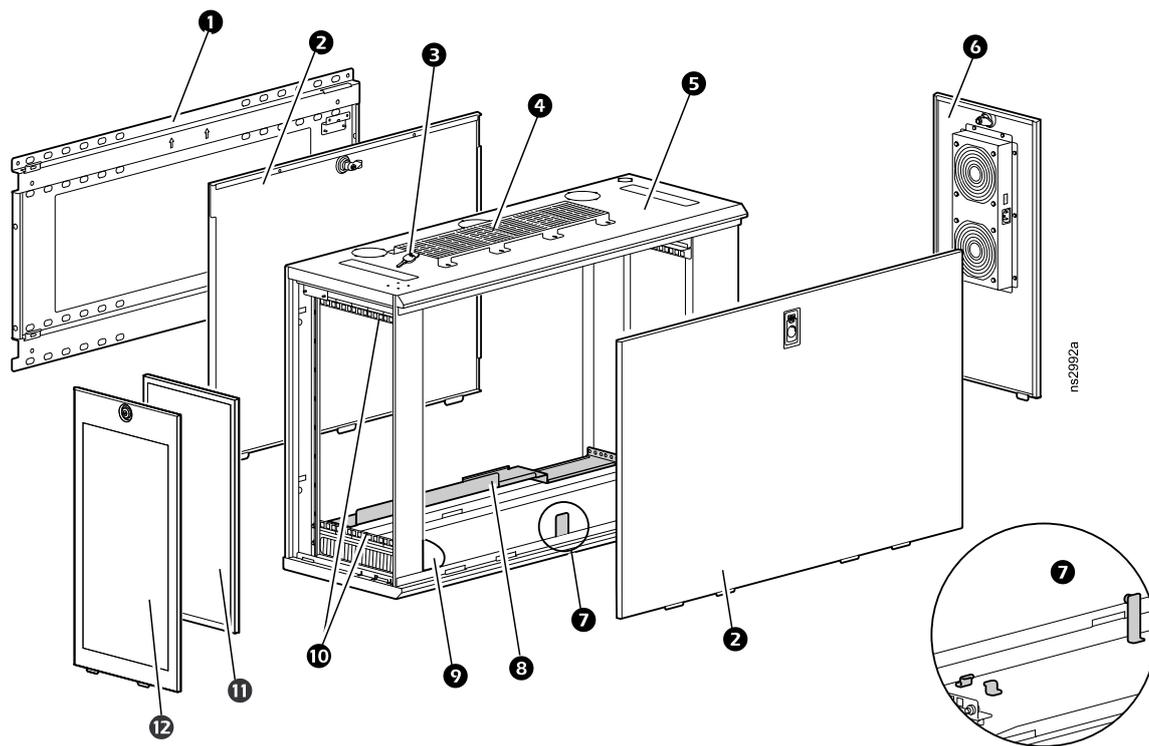
CAUTION: To reduce the risk of shock - Use indoors only in a dry location. No user serviceable parts inside. Refer servicing to qualified personnel.

ATTENTION: Pour réduire les risques d'électrocution - Utilisez uniquement à l'intérieur dans un endroit sec. Aucune pièce réparable par l'utilisateur à l'intérieur. Confiez la réparation à du personnel qualifié.



885-91819_REV01

Component Identification



Item	Description
1	Mounting bracket
2	Removable, lockable side panels
3	Key
4	Universal accessories bracket
5	Cabinet frame
6	Removable, lockable rear panel with fan
7	Reserved for future use
8	UPS mounting bracket
9	Hardware bag
10	Top and bottom mounting flanges
11	Removable filter
12	Removable, lockable front panel
Not shown: Fan power cord, IEC C-13 to NEMA 5-15	

Hardware Bag



Cage nuts (24)



M6 plastic cup washers (24)



M6 x 16 Phillips slot screws (24)



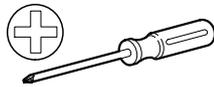
TORX® T30/#2 Phillips tool (1)



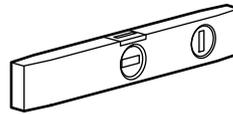
Cage nut tool (1)

Tools (Not Provided)

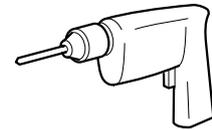
Required



Phillips screw driver

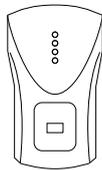


Level

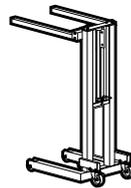


Drill

Optional



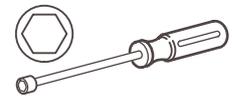
Stud finder



Material lift



Ladder



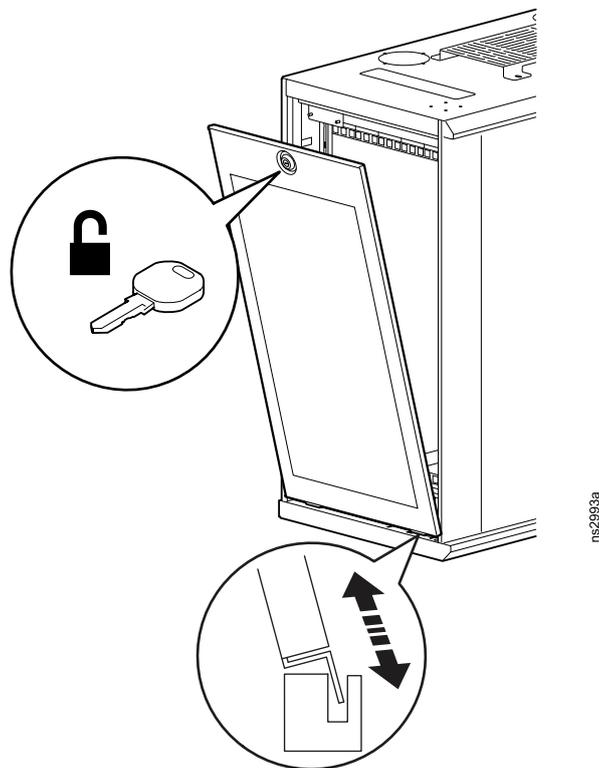
Nut driver (7 mm)

Configuration Options

Before you install the cabinet, plan the location and arrangement of components within the cabinet based on the available space.

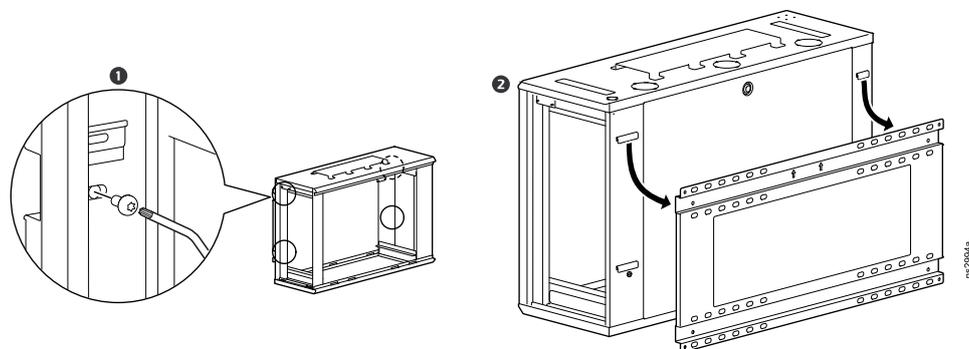
Front and Rear Panels

You can swap the front and rear panels to reverse the direction of the cabinet.



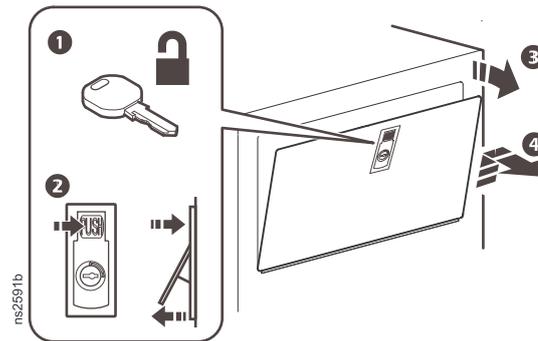
Mounting Bracket

You must remove the front and rear panels to remove or install the mounting bracket. As you remove the screws (1), hold the bracket to prevent it from falling. Save the screws for wall-mounting.

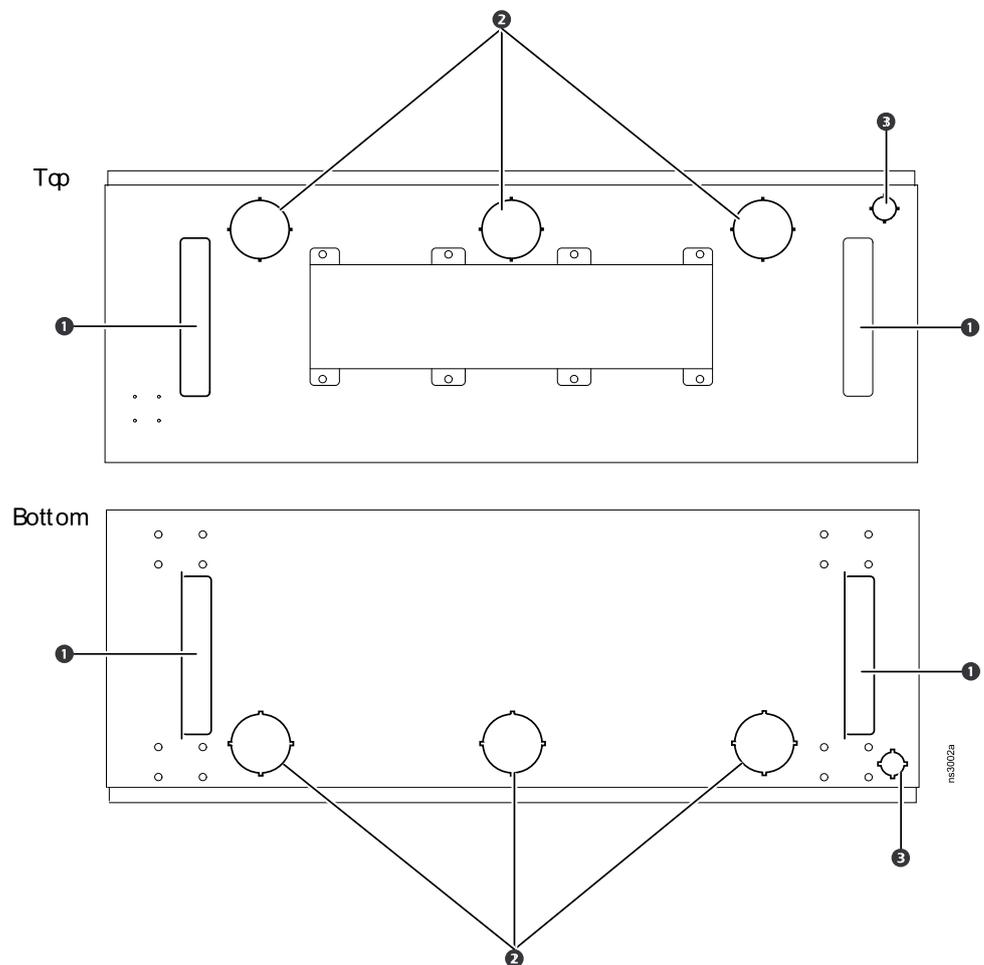


Side Panels

To remove the side panel closest to the wall, you must first remove the mounting bracket.



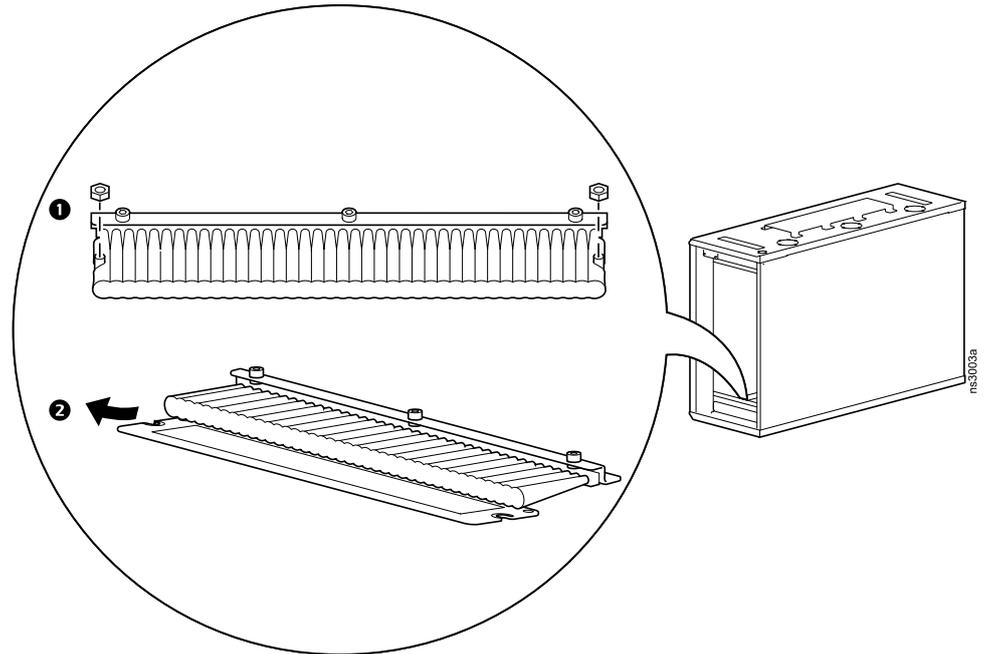
Cable Access



- ❶ Brush strips, 201 x 44 mm (8 x 2 in). See *Open Brush Strips for Cable Access*, page 13.
- ❷ Knockouts for CAT5 or CAT6 cables, 70 mm (2.76 in)
- ❸ Conduit knockouts, 28 mm (1.1 in)

Open Brush Strips for Cable Access

Use a 7 mm nut driver to remove the nuts, then remove the plate covering the brush strip.



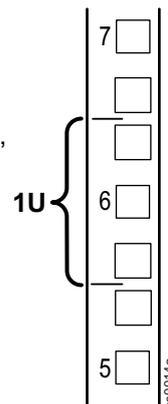
Equipment Installation

NOTE: Before installing the equipment, remove any desired knockouts or brush strips (*Cable Access, page 12*) and install the casters if desired (*Floor Mount, page 22*).

For specific information on how to mount equipment in the cabinet, see the installation instructions supplied with the equipment. You can use the provided M6 x 16 Phillips slot screws and cage nuts to mount equipment on the square holes in the mounting flanges.

Identify One (1) U-space

To install rack-mount equipment, locate the top and bottom of a U-space on the mounting flanges. Every third hole on the mounting flanges of a NetShelter enclosure is numbered to indicate the middle of a U-space. A U-space consists of one of these numbered holes and one hole directly above and below it, as shown.



Install a Cage Nut

APC by Schneider Electric offers a cage nut hardware kit (AR8100) for use with square holes.

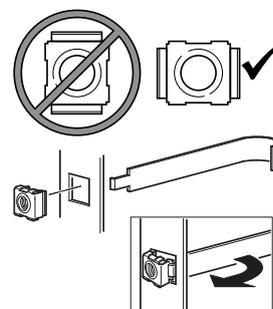
⚠ CAUTION

FALLING EQUIPMENT HAZARD

Install cage nuts horizontally, with the tabs engaging the left and right sides of the square hole. Do NOT install cage nuts vertically with the tabs engaging the top and bottom of the square hole.

Failure to follow these instructions can result in injury or equipment damage.

1. Install the cage nuts on the interior of the vertical mounting flange. Insert the cage nut into the square hole by hooking one (1) ear of the cage nut assembly through the far side of the hole.



2. Place the cage nut tool on the other side of the cage nut and pull to snap it into position.

Remove a Cage Nut

1. Remove any attached screw.
2. Grasp the cage nut and squeeze the sides to release it from the square hole.

Install Equipment on the Mounting Flanges

1. Review the installation instructions from the equipment manufacturer.
2. Turn the cabinet on its side.
3. Locate the top and bottom U-space on the mounting flanges. (See *Identify One (1) U-space*, page 14.)
4. If you use cage nuts, install the cage nuts on the interior of the mounting flanges (see *Install a Cage Nut*, page 14). Then install the equipment.

NOTE: Read *UPS Installation*, page 15 before installing a UPS. Read *Server Installation*, page 17 before installing a server.

UPS Installation

If you have an Uninterruptible Power Supply (UPS), it is recommended that you mount the UPS first, in U-space one (1) (closest to the wall and mounting bracket). You can use the included UPS bracket to mount a 2U UPS and fit additional equipment behind the UPS in the rear of the cabinet. Mount the UPS with the battery at the bottom of the cabinet.

⚠ CAUTION

BATTERY LEAK HAZARD

Mounting a UPS in the wrong orientation can prevent proper ventilation and cause overheating or battery leakage. Mount compatible APC by Schneider Electric UPS models with the display at the top of the cabinet and the battery at the bottom of the cabinet. If you install a third-party UPS in the cabinet, check with the manufacturer to ensure that the UPS can be safely mounted in the vertical orientation required by the cabinet.

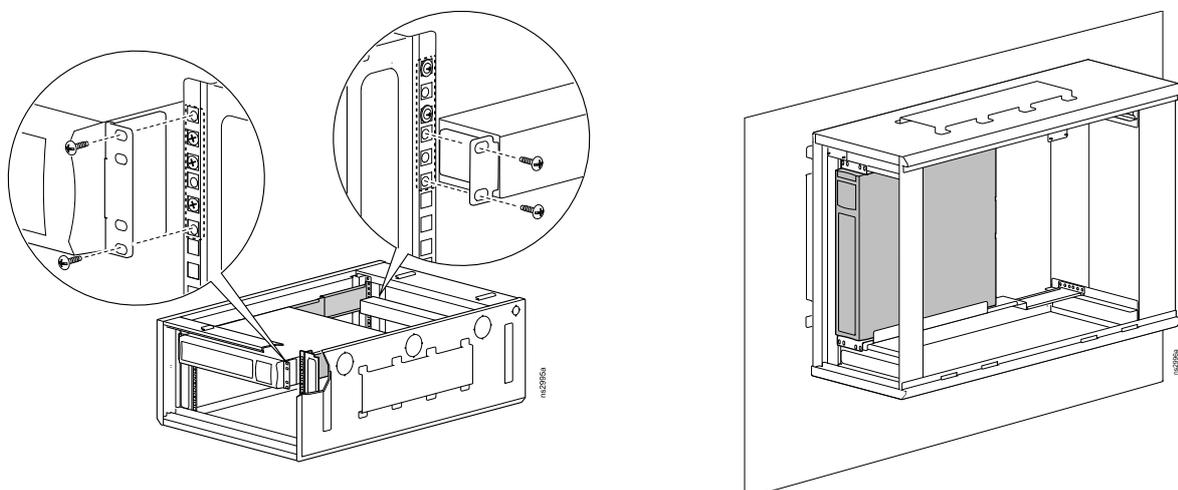
Failure to follow these instructions can result in injury or equipment damage.

NOTICE

RISK OF EQUIPMENT DAMAGE

- If you intend to re-ship the cabinet with a UPS installed, ensure the UPS bracket will keep the UPS secure while the cabinet is on its side and that the UPS can tolerate the shipping orientation.
- Disconnect the battery before reshipment. Follow all national and international shipping requirements.

Failure to follow these instructions can result in equipment damage.



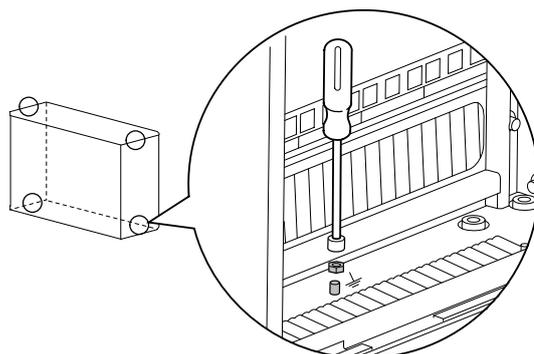
Compatible UPS Models

The following UPS models are compatible with the Low-profile WX Cabinet by APC by Schneider Electric.

Lead Acid UPS Models		Lithium Ion UPS Models	
Rating	Model	Rating	Model
750 VA	SMX750-NMC	500 VA	SCL500RMI1UNC
	SMX750NC		SCL500RMI1UC
	SMX750I		SCL500RM1UNC
			SCL500RM1UC
1 kVA	SMT1000RMI2UC	750 VA	SMTL750RMI2UNC
	SMT1000RMI2U		SMTL750RMI2UC
	SMT1000RM2UC		SMTL750RM2UC
	SMT1000RM2U	1 kVA	SMTL1000RMI2UNC
	SMX1000I		SMTL1000RMI2UC
	SMX1000		SMTL1000RM2UNC
	SRT1000RMXLA		SMTL1000RM2UC
	SRT1000RMXLA-NC		SRTL1000RMXLI-NC
	SRT1000RMXLI		SRTL1000RMXLI
	SRT1000RMXLI-NC		
1.5 kVA	SMT1500RMI2UNC	1.5 kVA	SMTL1500RMI3UNC
	SMT1500RMI2UC		SMTL1500RMI3UC
	SMT1500RMI2U		SMTL1500RM3UC
	SMT1500RM2UNC		SRTL1500RMXLI-NC
	SMT1500RM2UC		SRTL1500RMXLI
	SMT1500RM2U		
	SMT1500R2-NMC		
	SMX1500RMI2UNC		
	SMX1500RMI2U		
	SMX1500RM2UNC		
	SMX1500RM2U		
	SRT1500RMXLA		
	SRT1500RMXLA-NC		
	SRT1500RMXLI		
	SRT1500RMXLI-NC		

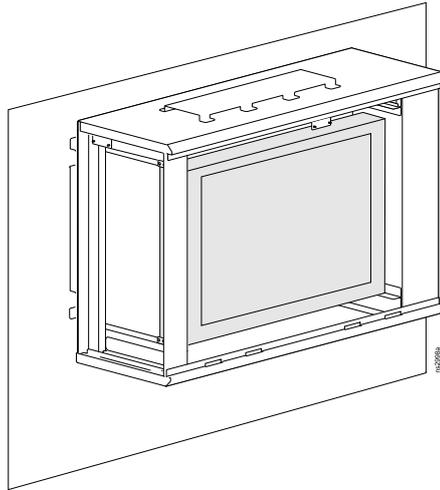
Ground the UPS

Follow the grounding guidelines for your UPS model. There are four(4) grounding points available with 7 mm nuts pre-installed.



Server Installation

Install the server in U-space six (6) (farthest from the wall and mounting bracket) with the access panel facing outward to allow easy access for maintenance.



NOTICE

RISK OF EQUIPMENT DAMAGE

- Check with the manufacturer to ensure that the server can safely operate in the vertical orientation required by the cabinet.
- If you intend to re-pack and ship the cabinet with a server installed, ensure the server bracket will keep the server secure while the cabinet is on its side and that the server can tolerate the shipping orientation (with the server access panel facing the ground).

Failure to follow these instructions can result in equipment damage.

Other Compatible Equipment

The following equipment is compatible with the Low-profile WX Cabinet by APC by Schneider Electric. Other equipment may work but has not been validated.

NetBotz Appliances	Rack Power Distribution Units
Rack Monitor 250 (NBRK0250)	Switched PDU, 1U, 15A, 100/120V, (8) 5-15 outlets (AP7900B)
Rack Monitor 570 (NBRK0570)	Switched PDU, 1U, 12A/208V, 10A/230V, (8) C13 outlets (AP7920B)
Rack Monitor 750 (NBRK0750)	Metered PDU, 1U, 15A, 100/120V, (8) 5-15 outlets (AP7800B)
	Metered PDU, 1U, 12A/208V, 10A/230V, (8) C13 outlets (AP7820B)
Miscellaneous Accessories	
Airflow management blanking panel kit, 1U (AR8136BLK)	Basic PDU, 1U, 15A, 120V, (10) 5-15 outlets (AP9562)

NOTE: See the installation manual for your NetBotz appliance to determine which NetBotz accessories are compatible.

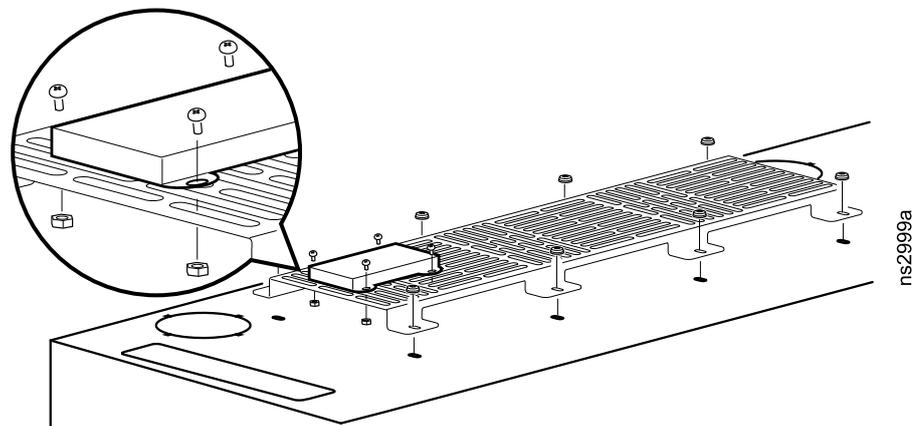
Additional Options for Cable Management

The following cable management accessories (not included) are compatible with the Low-profile WX Cabinet.

Accessory	Description	
Horizontal cable manager with brush strip, 1U (AR8429)	19 in, 1U cable pass-through assists with containing air in the cabinet and providing an aesthetic solution for cable routing.	ns0404a
Horizontal cable manager, 1U x 4 in (AR8602A)	Routes cables on the front or back of the 19 in EIA cabinet.	
Data distribution panel, 1U (AR8451)	Holds four (4) data distribution cables, for a total of 24 ports.	
Data distribution panel, 2U (AR8452)	Holds eight (8) data distribution cables, for a total of 48 ports.	

Universal Accessory Bracket

You can install additional sensors or networking equipment on the Universal Accessory bracket.

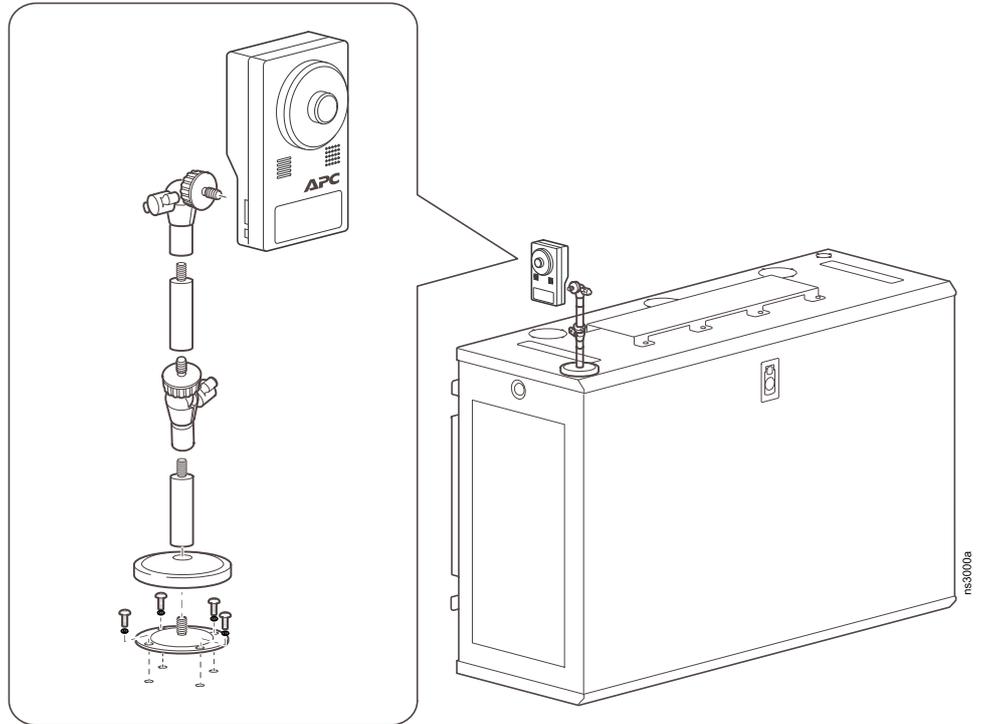


Additional Options (not included)

The following accessories are available on www.apc.com. Installation instructions are provided for each accessory. Check your NetBotz appliance documentation to ensure that any NetBotz accessories are compatible with your appliance.

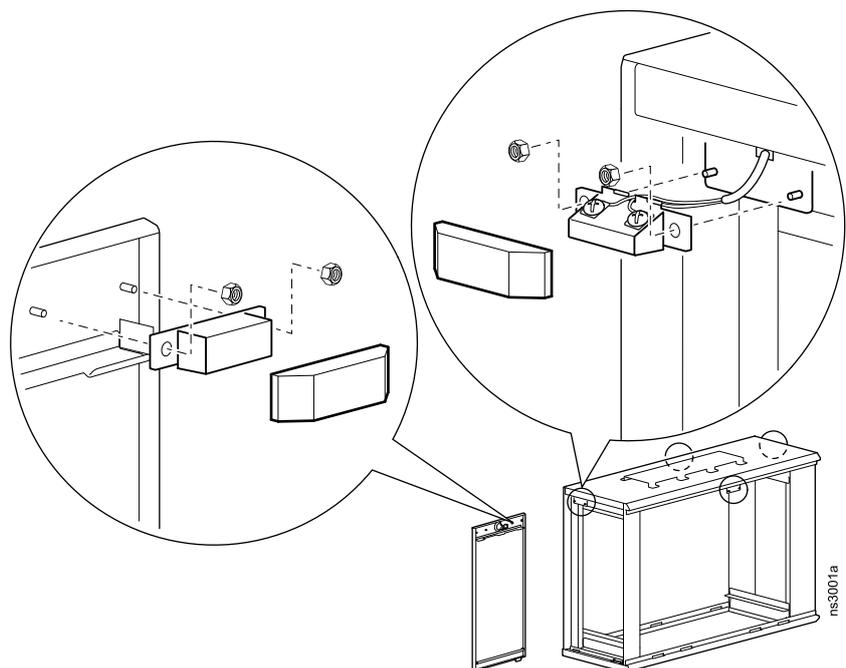
NetBotz Camera Pod 165 (NBPD0165)

The top of the cabinet has four (4) holes that can be used to install a NetBotz Camera Pod 165. Use the pre-installed #6-32 x 5/16 screws and washers.



NetBotz Door Switch Sensor (NBES0313)

The cabinet has four (4) locations for NetBotz door switch sensors with matching installation locations on each panel.



Cabinet Installation

⚠ WARNING

HEAVY EQUIPMENT HAZARD

- Installation must be performed by qualified personnel.
- Use at least two (2) people to lift the cabinet and follow site-specific requirements for lifting.
- Follow local and national building codes when installing the cabinet.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTE: The cabinet is intended only for indoor environments. See *Specifications, page 26* for environmental requirements.

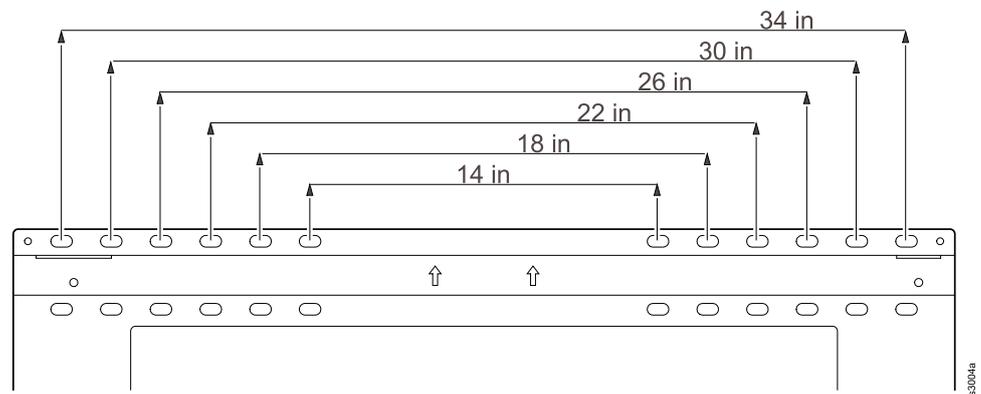
NOTE: See *Specifications, page 26* for the weight of the cabinet and its maximum weight capacity.

Mount the Cabinet to a Wall

NOTE: Install equipment before mounting the cabinet to a wall. See *Equipment Installation, page 14*.

The holes on the mounting bracket will accommodate up to a 10 mm (3/8 in) bolt. The centers of adjacent holes are 51 mm (2 in) apart, and the centers of the middle holes are 356 mm (14 in) apart. The bracket can be mounted on studs with standard 16 in (406 mm) centers or 24 in (610 mm) centers.

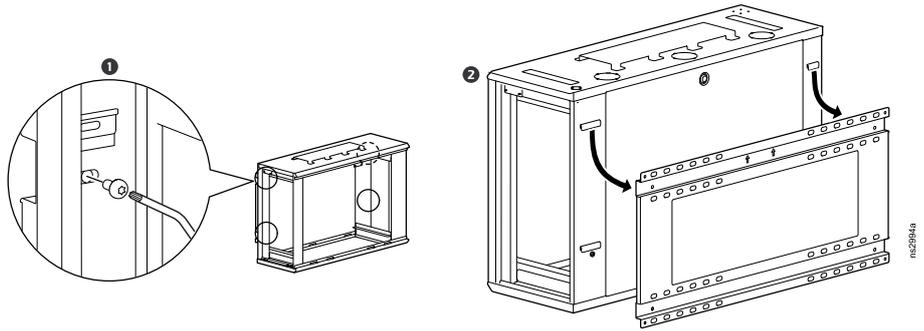
Unless mounting on concrete or cinder block, you must mount the bracket on at least two (2) studs, centered to the best of your ability. Secure the bracket with at least four (4) fasteners. Follow local and national building codes, and ensure your mounting surface and fasteners can support the weight of the loaded cabinet and all attached equipment.



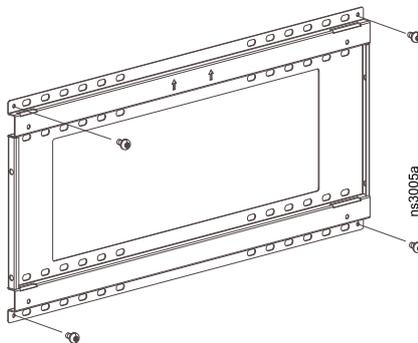
You will need the following items (not provided):

- stud finder (only needed for mounting on studs)
- four (4) drywall screws (only needed for temporary bracket mounting in step 3)
- level
- at least four (4) fastener and four (4) washers appropriate for your wall type
- cordless drill and appropriate drill bit
- material lift (recommended)

1. Remove the front and rear panels (see *Front and Rear Panels*, page 11).
2. Use two (2) people to remove the mounting bracket. While one person holds the bracket, let the other person remove the four (4) T30 TORX screws (keep the screws). Then remove the bracket.



3. **NOTE:** Skip this step for concrete or cinder block. Use a stud finder to locate and mark at least two (2) wall studs. Hold the bracket to the wall so that four (4) fastener holes are aligned with the studs. Ensure the bracket is horizontally level and install two (2) drywall screws as shown.



NOTE: The drywall screws will hold the bracket in position while you secure the bracket so that it can bear the weight of the cabinet. Do not put any weight on the bracket at this time.

4. Drill at least four (4) pilot holes where fastener holes in the bracket align with the wall studs.
5. Screw the appropriate fastener for your wall-type into each pilot hole. Leave about 13 mm (1/2 in) of each fastener out of the wall. When all four (4) fasteners are in place, tighten them to secure the bracket against the wall.
6. Hang the cabinet by all four (4) tabs on the mounting bracket. It is recommended that you use a material lift or other lifting device to lift the cabinet up to the mounting bracket, then use at least two (2) people to guide the cabinet onto the bracket.
7. Re-install the four (4) T30 TORX screws to secure the cabinet to the mounting bracket.

▲ WARNING

UNSECURED EQUIPMENT FALLING HAZARD

- Enclosure wall mount requires reinstallation of all four (4) T30 bolts.
- Enclosure is designed to support loads only with all four (4) mounting bolts installed. Failure to follow these instructions can result in death or serious injury.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

8. Re-attach and lock the front and rear panels. (See *Front and Rear Panels*, page 11).

Floor Mount

⚠ CAUTION

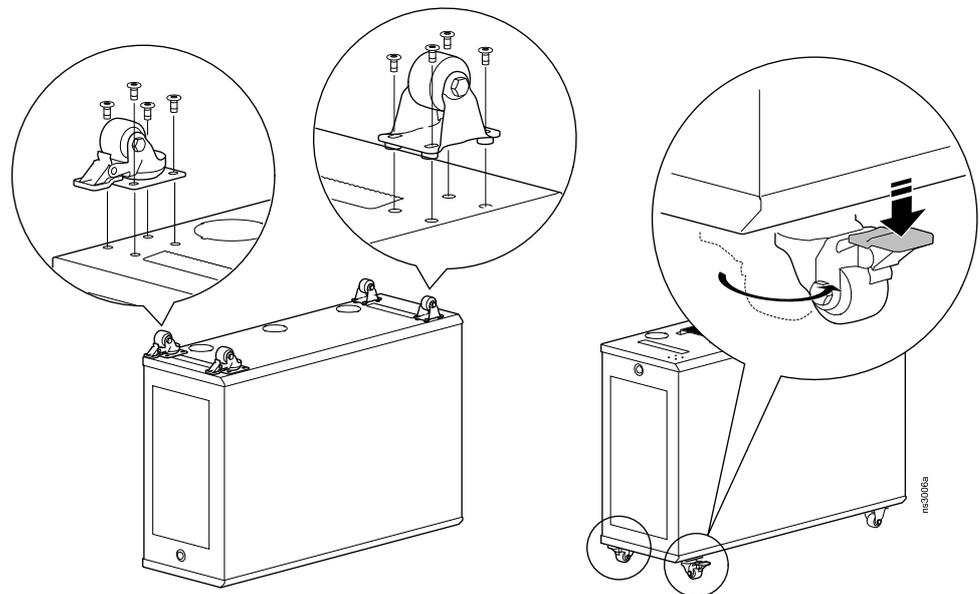
TIP HAZARD

The cabinet can be tipped. Exercise caution around a standing cabinet.

Failure to follow these instructions can result in injury or equipment damage.

The cabinet can be set on the floor or mounted on the APC by Schneider Electric caster kit (AR8741, not included).

The bottom of the cabinet has four (4) sets of holes for the casters. The caster kit comes with two (2) swivel casters for the front of the cabinet, and two (2) fixed casters for the rear of the cabinet. Ensure the screws are tight and fully seated. Lock the swivel casters once the cabinet is in place.



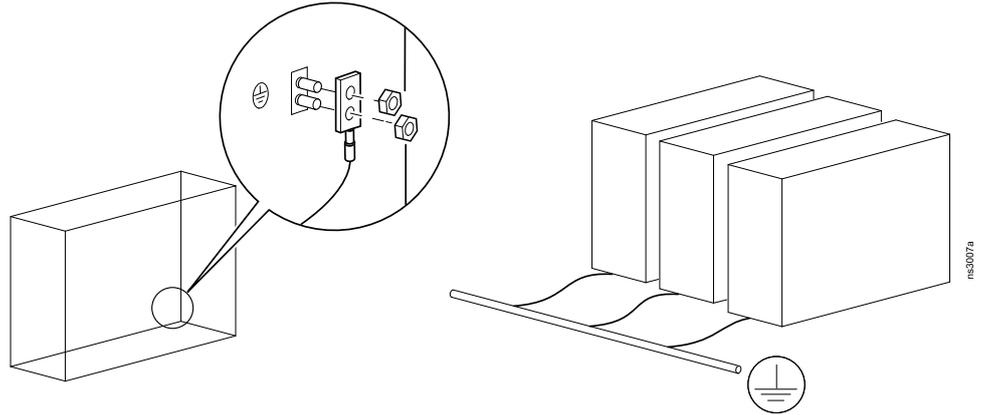
NOTE: Do not install casters on a loaded cabinet.

Ground the Cabinet

The front and rear doors are grounded with grounding clips.

Each cabinet should be grounded directly to the building ground using the grounding points at the rear of the cabinet (grounding hardware not provided).

- Use a Common Bonding Network Jumper kit (for example, Listed [KDER] Panduit RGCBNJ660PY or equivalent).
- Use the M6 nuts pre-installed on the grounding points to secure the Jumper Kit. Torque the nuts to 6.9 N•m (60 lb-in). (You do not need the screws included in the Jumper Kit.)
- Do not ground one cabinet to another cabinet in a cascading style. Ground each cabinet directly to the building ground.



⚠️⚠️ DANGER

HAZARD OF ELECTRIC SHOCK

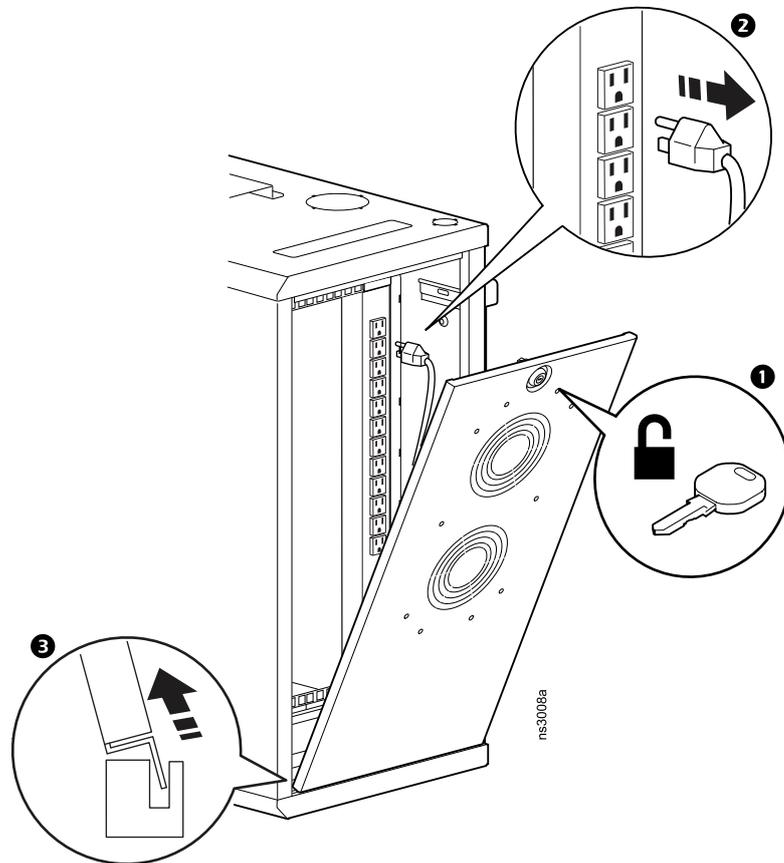
The cabinet must be connected to the building Common Bonding Network (CBN).

Failure to follow these instructions will result in death or serious injury.

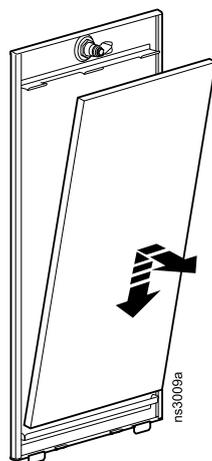
Maintenance

You can purchase APC by Schneider Electric fan modules (0J-0M-89059-XXX) or air filters (AR8472) on www.apc.com.

Replace the Fan Module



Replace the Filter



Additional Options: EcoStruxure Asset Advisor

EcoStruxure Asset Advisor is a cloud-based monitoring service that provides the following benefits:

- 24/7 remote monitoring and smart alarms for the provided by Schneider Electric Connected Services Hub
- The ability to resolve issues through an online chat or over the phone call with experts from the Connected Services Hub
- Incident tracking and data analysis to help your equipment run more efficiently
- Access to the EcoStruxure IT mobile application for your smart phone

You can purchase EcoStruxure Asset Advisor offers for individual devices on www.apc.com. For example:

Parts Covered	Part Number	Description
1-phase UPS up to 10 kVA	WADV1PEAA	One (1) Year EcoStruxure Asset Advisor Service for your UPS
	WUPG1PEAA-UG-01	Add one (1) Year EcoStruxure Asset Advisor to an existing firmware purchase or service plan

Specifications

	AR106VI 50 Hz	AR106V 60 Hz
Electrical (fan module)		
Rated input voltage	230 VAC	115 VAC
Rated input current	1 A	1 A
Input connection	C13	C13
Physical		
Dimensions (H x W x D)	649.5 x 351.75 x 978.2 mm (25.6 x 13.85 x 38.5 in) NOTE: Width includes 16.75 mm (0.65 in) mounting bracket.	
Maximum equipment depth	762 mm (30 in)	
Cabinet weight (empty)	34 kg (75 lb)	
Maximum equipment weight	113 kg (250 lb)	
Ventilation (front door)	79.6 % open area	
Airflow (fan module)	220 cubic feet (6 cubic meters) per minute at 0 static pressure	
Filter ratings	MERV 5, G3	
Environmental		
Temperature (fan) Operating Storage	-10 C (14 F) – 70 C (158 F) -40 C (-40 F) – 70 C (158 F)	
Compliance		
UL/cUL	UL2416 CAN/CSA 60950-1	UL2416 CAN/CSA 60950-1
CE	2014/35/EU	—
EMC compliance		
FCC	—	47 CFR Part 15 Class A

Five-year Factory Warranty

The limited warranty provided by APC by Schneider Electric in this Statement of Limited Factory Warranty applies only to products you purchase for your commercial or industrial use in the ordinary course of your business.

Terms of Warranty

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Non-transferable Warranty

This warranty extends only to the original purchaser who must have properly registered the product. The product may be registered at www.apc.com.

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Warranty Claims

Customers with warranty claims issues may access the customer support network through the Support page, www.apc.com/support. Select your country from the country selection pull-down menu at the top of the Web page. Select the **Support** tab to obtain contact information for customer support in your region.

Radio Frequency Interference

USA—FCC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. The user will bear sole responsibility for correcting such interference.

Canada—ICES

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Japan — VCCI

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may occur, in which case, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会 (VCCI) の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると、電波 妨害を引き起こすことがあります。この場合には、使用者が適切な対策を講ずるよう要求されることがあります。

European Union

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 32/European Standard EN 55032. The limits for Class A equipment were derived for commercial and industrial environments to provide a reasonable protection against interference with licensed communication equipment.

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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As standards, specifications, and design change from time to time,
please ask for confirmation of the information given in this publication.

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