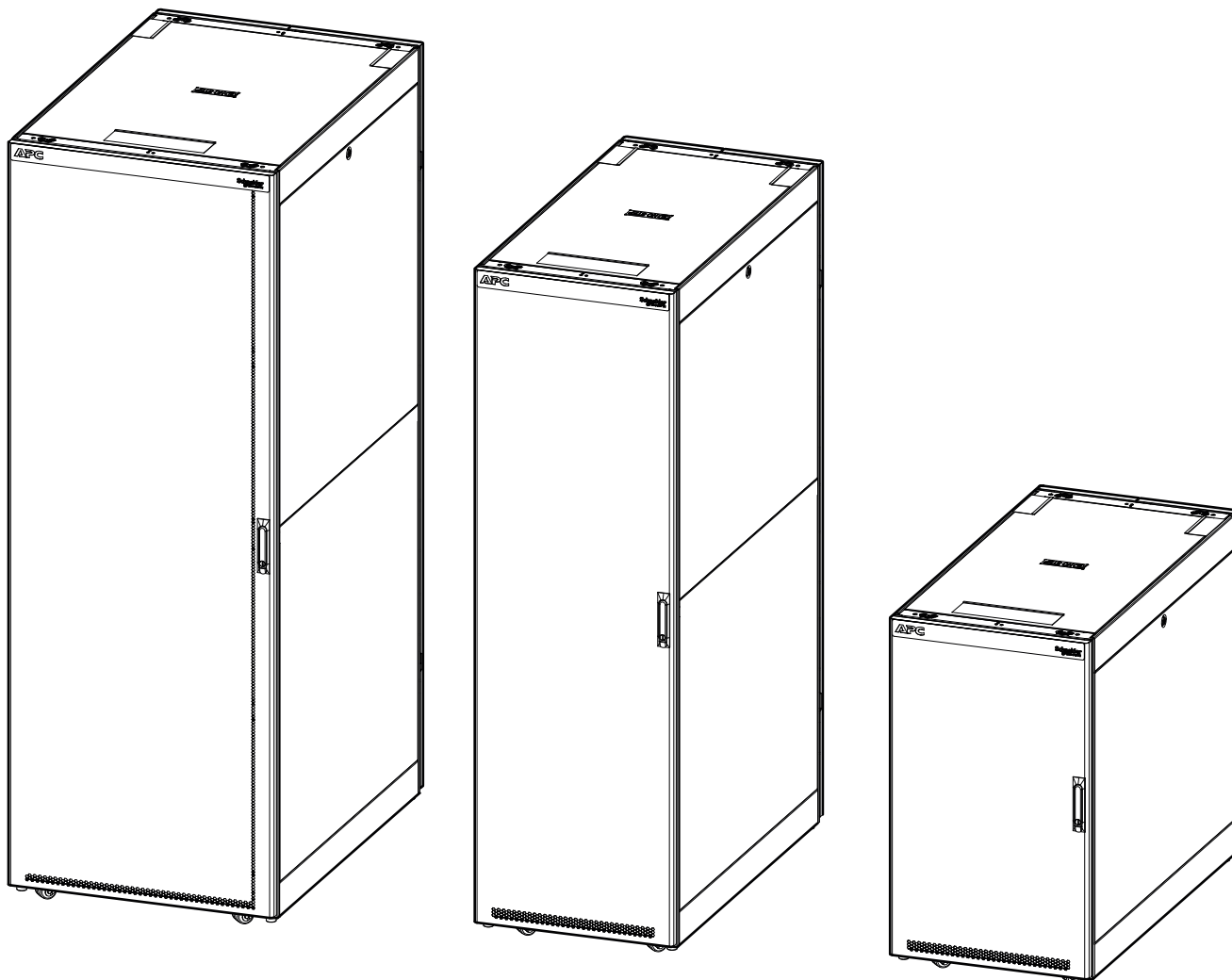


Easy Rack

Installation and Customization

Release date: May 2021



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Introduction

The APC by Schneider Electric Easy Racks are quality racks for storage of industry-standard (EIC/ECA-310), 19 in. (483 mm) rack-mounted hardware, which includes servers and voice, data, networking, internetworking, and power protection equipment.

This manual covers the general installation and customization of the racks in the Easy Rack family and their accessories.

SKU	Rack Description (W = Width, D = Depth)	SKU	Accessory Description
ER6482	24U, 600W x 800D	ER7BP1U	Blanking Panel
ER6222	42U, 600W x 1200D	ER7BP2U	Blanking Panel
ER6212	42U, 600W x 1100D	ER7RCC24	Rear Cable Channel, single width
ER6202	42U, 600W x 1000D	ER7RCC42	Rear Cable Channel
ER6282	42U, 600W x 800D	ER7RCC48	Rear Cable Channel
ER8222	42U, 800W x 1200D	ER7FANTRAY	Fan Tray with Single Fan
ER8212	42U, 800W x 1100D	ER7DCM	Cable Manager 1U depth
ER8202	42U, 800W x 1000D	ER7HCM	Horizontal Cable Manager
ER8282	42U, 800W x 800D	ER7VCM42	Vertical Cable Manager 42U
ER6822	48U, 600W x 1200D	ER7VCM48	Vertical Cable Manager 48U
ER6812	48U, 600W x 1100D	ER7PDUBRKT	PDU Mounting Bracket for 1100 mm and 1200 mm depth Easy Racks
ER6802	48U, 600W x 1000D	ER7PDUBRKTS	PDU Mounting Bracket for 800 mm and 1000 mm depth Easy Racks
ER8822	48U, 800W x 1200D	ER7SHELF	Adjustable Shelf, 50kg, for use in 800mm depth rack
ER8812	48U, 800W x 1100D	ER7SHELFS	Accessory Shelf
ER8802	48U, 800W x 1000D		
ER6402	24U, 600W x 1000D		
ER6422	24U, 600W x 1200D		

Safety

Read the instructions carefully to become familiar with the equipment before trying to install, operate, service or maintain it.

The addition of this symbol to a Danger or Warning safety label 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 message that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates an imminently 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 potentially hazardous situation which, if not avoided, can result in death or serious injury.

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

CAUTION

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

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

NOTICE

NOTICE addresses practices not related to physical injury including certain environmental hazards, potential damage or loss of data.

Failure to follow these instructions can result in equipment damage.

Safety Instructions

This manual contains important instructions that must be followed during the installation and customization of the rack.

DANGER

ELECTRIC SHOCK HAZARD

Connection of the rack to the Common Bonding Network (CBN) of the building is required.

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

WARNING

TIP/HEAVY EQUIPMENT HAZARD

- This rack may be easily tipped. Use extreme caution when unpacking or moving.
- At least two people are required to unpack and move the rack.
- Before moving the rack on its casters, load 158 kg (350 lb) of equipment into the bottom of the rack for extra stability.
- Make sure the leveling feet are up and push the rack only from the front or rear when moving the rack on its casters. Never push the rack from the sides.

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

CAUTION

LIFTING HAZARD

- Use M10 eye bolts with a shoulder rated for 181 kg (400 lb).
- Use appropriate lifting hardware to assure straight-line pull on lifting eye bolts.

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

CAUTION

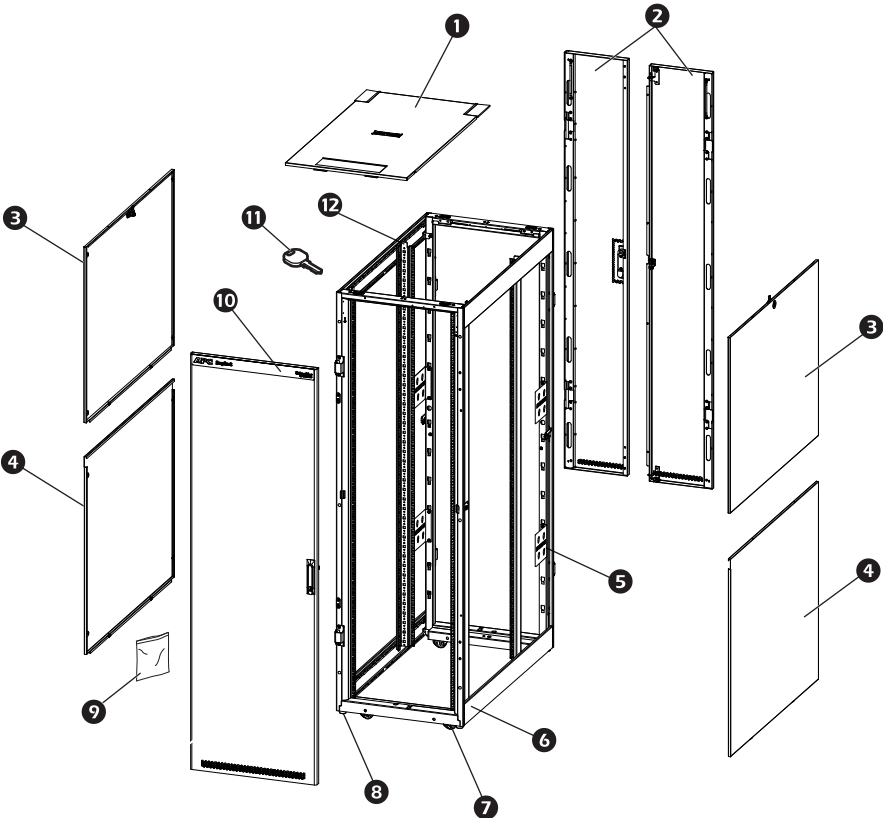
FALLING EQUIPMENT HAZARD

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.

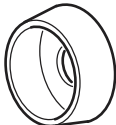
Component Identification

ER6822 shown (48U, 600W x 1200D)

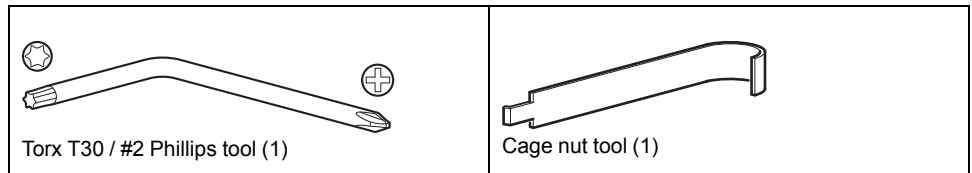


Item	Description	Item	Description
1	Roof	7	Caster (4)
2	Rear Doors (2)	8	Leveling Feet (4)
3	Removable Top Side Panel (Locking) (2)	9	Hardware bag
4	Removable Bottom Side Panel (2)	10	Removable and reversible front door
5	Zero U Accessory Mounting Bracket (4) Can be mounted in various locations throughout the rack to support small accessories and equipment.	11	Key (2)
6	Cabinet Frame	12	Vertical Mounting Flange (4)

Hardware

 Plastic Cup Washer M6 (50)	 Cage Nut (50)	 M5 x 12 Phillips screw (4)	 M6 x 16 Phillips screw (50)
--	--	--	---

Tools Provided



Rack Installation

Move the Rack

⚠ WARNING

TIP HAZARD

- This rack is easily tipped. Use extreme caution when unpacking or moving.
- At least two people are required to unpack and move the rack.
- Make sure the leveling feet are up and push the rack only from the front or rear when moving the rack on its casters. Never push the rack from the sides.

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

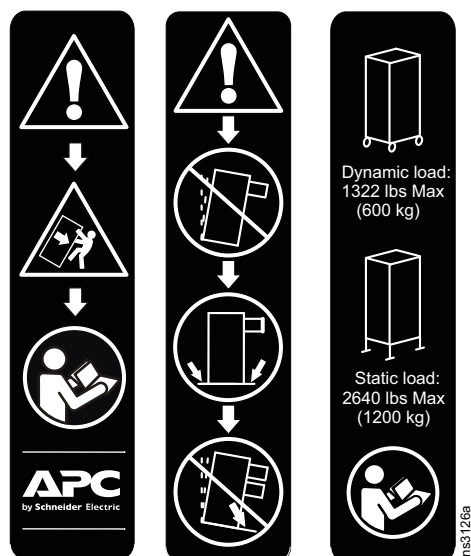
Labels

Labels can be found on the rack that serve to communicate:

Tip Hazard

Extend Slide-Mounted Hardware One Piece at a time

Casters: The rack can be moved (Dynamic Load) on its casters with up to 600 kg (1320 lb) of equipment installed. With the leveling feet lowered, the static rack can be loaded with up to 1200 kg (2640 lb) of equipment (Static Load).



Eye Bolts

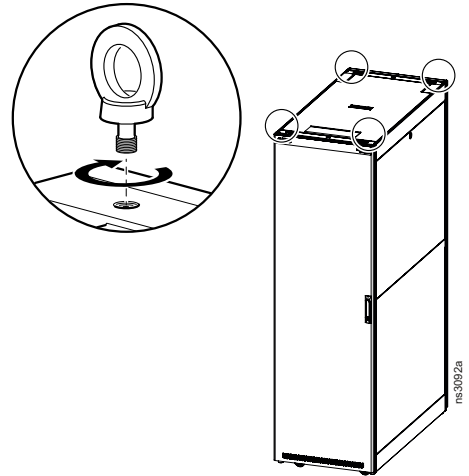
⚠ CAUTION

LIFTING HAZARD

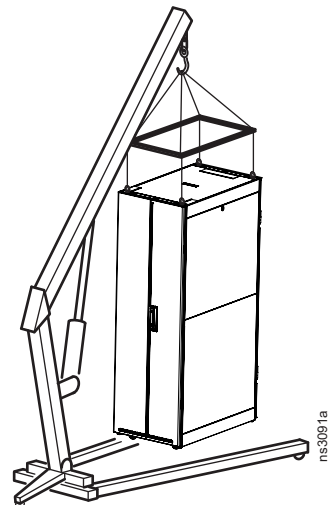
- Use M10 eye bolts with a shoulder rated for 181 kg (400 lb).
- Use appropriate lifting hardware to assure straight-line pull on lifting eye bolts.

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

Use M10 eye bolts with a shoulder rated for 181 kg (400 lb) when lifting the Easy Rack.



Assure a straight-line pull on the lifting eye bolts when lifting the Easy Rack.



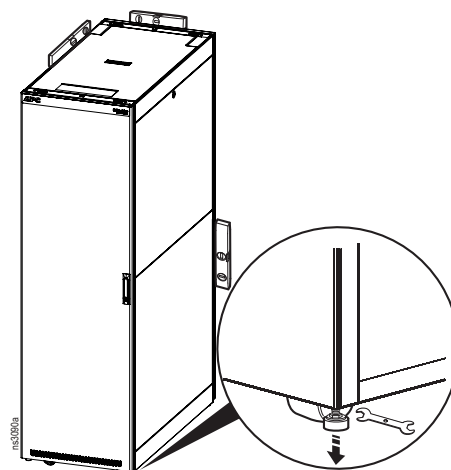
Level the Rack

The leveling feet at the corners of the Easy Rack provide a stable base if the floor is uneven, but they cannot compensate for a badly sloped surface.

Ensure the rack is in its intended location.

Use a 13 mm open-ended wrench to lower the leveling feet if the rack is loaded with equipment.

Adjust each foot and, using a level, adjust the feet until the rack is level and plumb.



Join the Racks

Join racks with the provided brackets to provide alignment and added stability. Racks may be joined with or without the side panels installed.

⚠ WARNING

TIP HAZARD

Joining racks provides limited stability to the racks. Secure the rack to the floor before installing equipment.

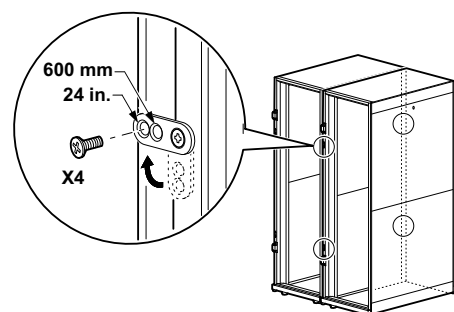
Failure to follow these instructions can result in death, serious injury, or equipment damage.

If installed, remove the front and rear doors. See the “Door Removal” section for instructions.

Choose between 24 in. or 600 mm centers.

Align the racks and locate the joining brackets. There are two brackets on the front and two brackets on the back of each rack.

Racks are joined using a M5 x 12 countersunk screw, provided in the hardware bag. Using the Phillips head end of the provided tool or a Phillips head screwdriver, insert the screw into the designated hole and tighten.



Install the doors. See the “Door Installation” section for instructions.

Ground the Rack

⚡ ⚠ DANGER

ELECTRIC SHOCK HAZARD

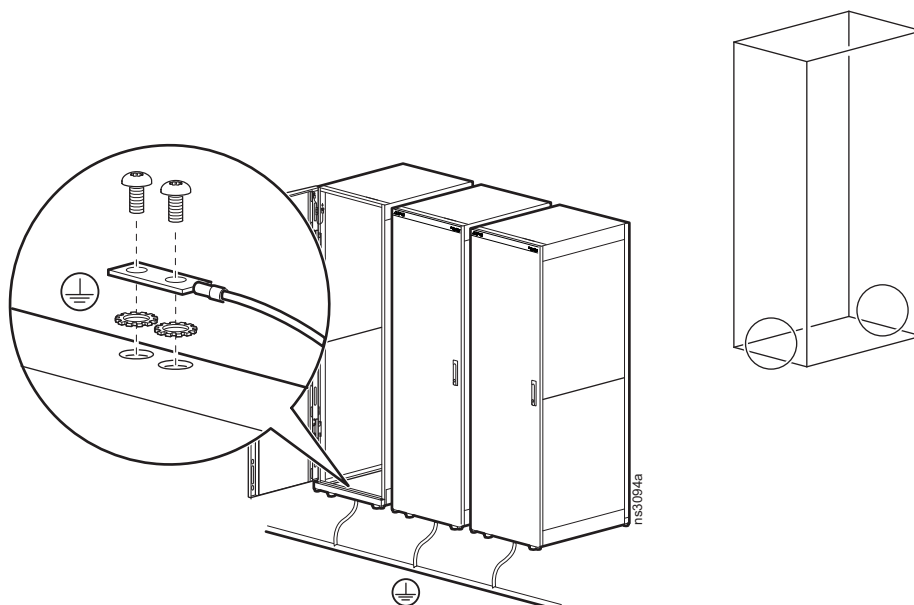
Connection of the rack to the Common Bonding Network (CBN) of the building is required.

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

Each rack should be bonded directly to a common ground using one of the designated grounding locations (two M6 threaded inserts) at the top or bottom of the cabinet.

- Use a Common Bonding Network Kit (for example: Listed [KDER] Panduit® RGCBNJ660PY or equivalent).
- Use paint-piercing washers between the ground terminal and the rack frame, or remove the paint on the frame under the ground terminals, per NEC NFPA 70 Article 250.12.
- Torque the screws to 6.9 N•m (60 lb-in.).

NOTE: Additional functional grounding points are available at the top of the rack. Do not connect the building CBN to these functional grounding points.



Secure the Rack

⚠ WARNING

TIP HAZARD

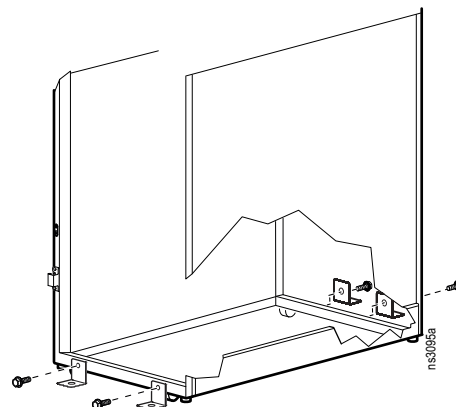
Secure the rack to the floor before installing equipment.

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

NOTE: Secure the rack to the floor only with the casters and leveling feet installed and the leveling feet in position to firmly and levelly support the rack.

The rack can be bolted to the floor as shown below. Open or remove the doors to access the mounting points on the rack's frame. Use the brackets that secured the rack to the pallet for shipping.

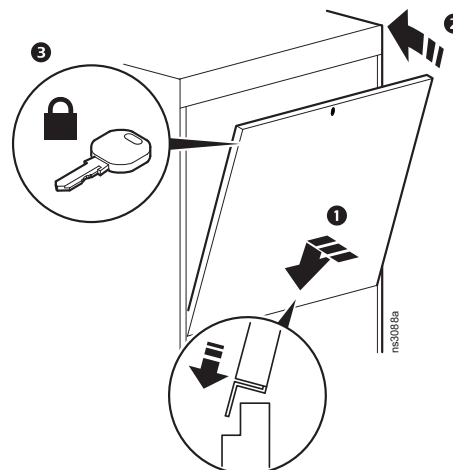
Side panel cut away in illustration to show brackets at rear of rack. Doors removed for clarity.



Side Panels, Roof, and Doors

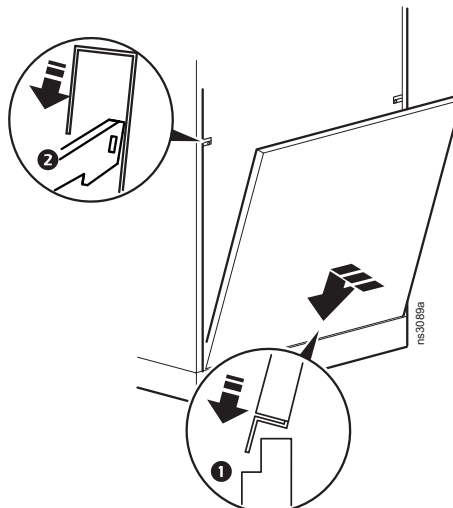
Locking Top Side Panels

The top panels on each side of the cabinet are locked and must be unlocked with a key (provided) before they can be opened or removed. The top panels must be removed before the bottom panel can be removed.



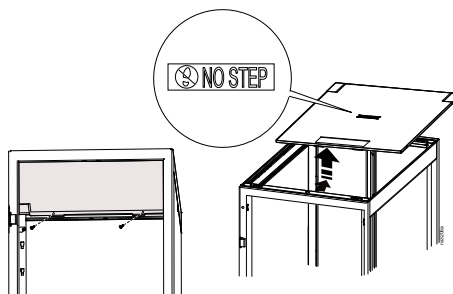
Bottom Side Panels

Once the top panel has been removed, the bottom panel can be removed by lifting the side panel up and off the brackets and then out of the rack.



Roof Removal

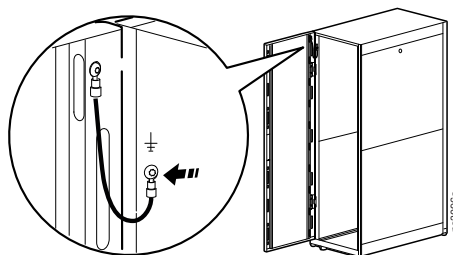
From the inside of the rack, remove the two screws at the back of the roof then push up. The roof can then be removed from the outside.



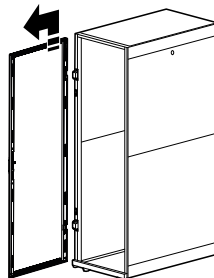
Door Removal

Unlock and open the front door.

Disconnect the ground wire and any other wire connections that may interfere with the removal of the doors.



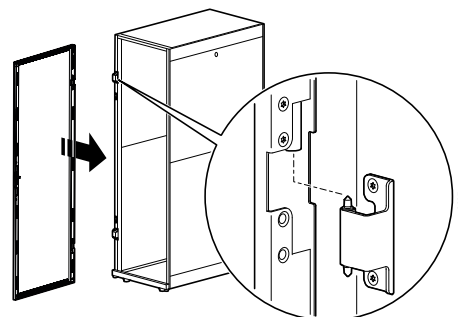
The hinges come apart by lifting the door up and away from the rack.



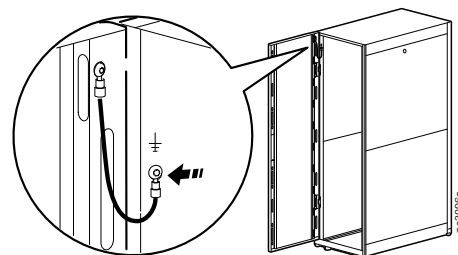
Door Installation

The doors self-align on hinge pins when properly installed. With the door at a 90 degree angle to the front of the rack, position the door over the hinge pins.

Slowly lower the door into the rack frame ensuring that the door hinges correctly align to the rack frame hinges.



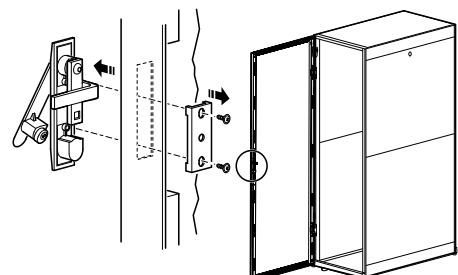
Connect the ground wire and any other wire connections.



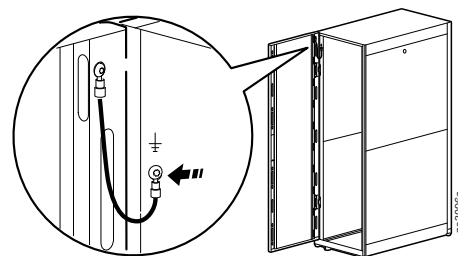
Reverse the Front Door

NOTE: The front door can be reversed so that the door opens in the other direction. This procedure assumes that initially, when facing the cabinet, the hinges are on the left and the door is opening from the right.

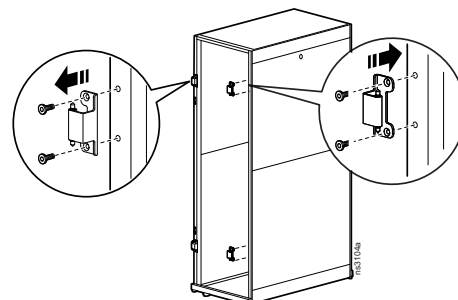
Remove the handle by removing the screw-plate. Pull the handle from the door.



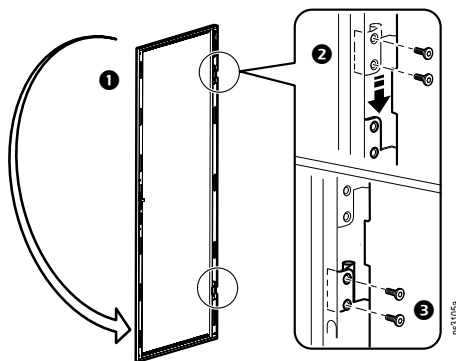
Disconnect the ground wire, and any other connections. Remove the door from the frame.



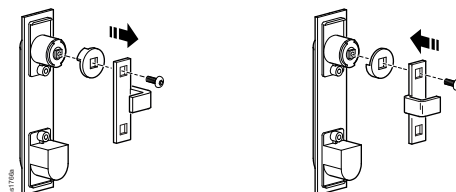
Locate the upper hinge on the rack frame. Remove the two screws holding the hinge in place. Install the hinge onto the other side of the rack frame. Repeat this step for the lower hinge.



Rotate the door. Remove the hinges from the door, and install them to the alternate hole location. The hinges on the door should now align with the hinges on the rack.

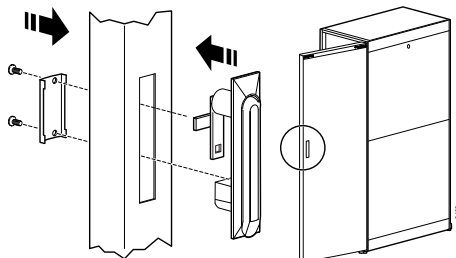


Install the door to the hinges now on the reverse side of the rack. Connect the ground wire and any other wire connections previously disconnected.



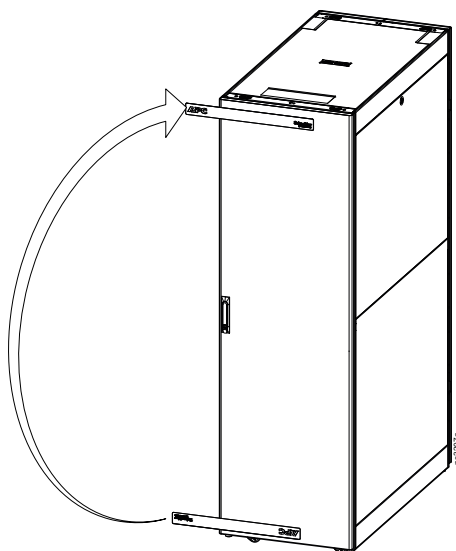
Locate the lock handle. Remove the cam screw, cam washer, and cam.

Rotate the cam washer 90 degrees, and the latch 180 degrees. Install the handle on the door.



Rotate the door logo

When the door has been reversed, the logo will now be located on the bottom of the door. The logo is attached to the perforated holes in the door with three (3) clips. Remove the logo by carefully pulling each clip from its perforated hole, rotate it, and install it at the top of the door.



Equipment Installation

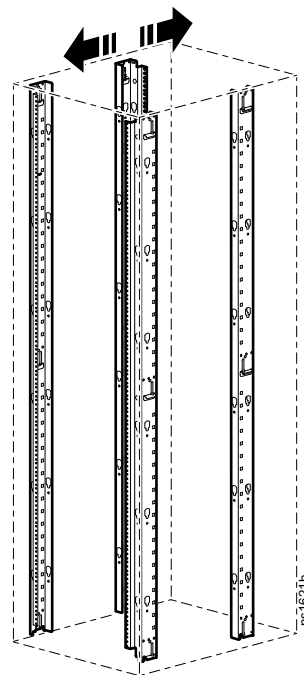
NOTE: Easy Racks are intended for use with Listed equipment. If un-Listed equipment is installed, you should evaluate the safety of your configuration.

Adjust the Vertical Mounting Flanges

Vertical mounting flanges come factory-installed at 737 mm (29 in.), the proper location for use with rack-mountable equipment.

The mounting flanges are adjustable towards the front or the rear of the cabinet to accommodate different rails or equipment with other depths.

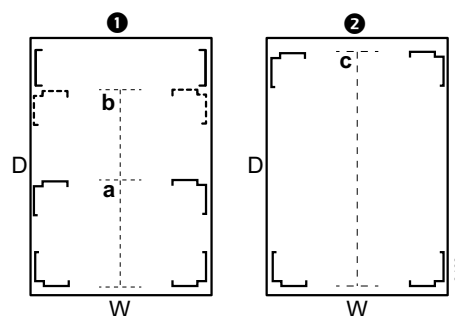
A common application for the 800 mm (31.5 in.) racks is to move the flanges to a depth of 476 mm (18.75 in.) to accommodate networking and telecommunications equipment.



Position the Vertical Mounting Flanges

Configuration 1: The Accessory Channel is installed. The Vertical Mounting Flanges can be installed a minimum distance of (a) and can extend as far as (b).

Configuration 2: The Accessory Channel is removed. The Vertical Mounting Flanges can extend as far as (c).



SKU	Cabinet Width (W)	Cabinet Depth (D)	a	b	c
ER6482	600 mm	800 mm	190.5 mm (7.5 in.)	552.5 mm (21.75 in.)	641.4 mm (25.25 in.)
ER6282	600 mm	800 mm	190.5 mm (7.5 in.)	522.5 mm (20.57 in.)	641.4 mm (25.25 in.)
ER6202	600 mm	1000 mm	190.5 mm (7.5 in.)	749.3 mm (29.5 in.)	838.2 mm (33 in.)
ER6212	600 mm	1100 mm	190.5 mm (7.5 in.)	787.4 mm (31 in.)	939.8 mm (37 in.)
ER6222	600 mm	1200 mm	190.5 mm (7.5 in.)	876.3 mm (34.5 in.)	1041.4 mm (41 in.)

ER8282	800 mm	800 mm	241.64 mm (9.51 in.)	552.5 mm (21.75 in.)	641.4 mm (25.25 in.)
ER8202	800 mm	1000 mm	241.64 mm (9.51 in.)	749.3 mm (29.5 in.)	838.2 mm (33 in.)
ER8212	800 mm	1100 mm	241.64 mm (9.51 in.)	787.4 mm (31 in.)	939.8 mm (37 in.)
ER8222	800 mm	1200 mm	241.64 mm (9.51 in.)	876.3 mm (34.5 in.)	1041.4 mm (41 in.)
ER6802	600 mm	1000 mm	190.5 mm (7.5 in.)	749.3 mm (29.5 in.)	838.2 mm (33 in.)
ER6812	600 mm	1100 mm	190.5 mm (7.5 in.)	787.4 mm (31 in.)	939.8 mm (37 in.)
ER6822	600 mm	1200 mm	190.5 mm (7.5 in.)	876.3 mm (34.5 in.)	1041.4 mm (41 in.)
ER8802	800 mm	1000 mm	241.64 mm (9.51 in.)	749.3 mm (29.5 in.)	838.2 mm (33 in.)
ER8812	800 mm	1100 mm	241.64 mm (9.51 in.)	787.4 mm (31 in.)	939.8 mm (37 in.)
ER8822	800 mm	1200 mm	241.64 mm (9.51 in.)	876.3 mm (34.5 in.)	1041.4 mm (41 in.)
ER6402	600 mm	1000 mm	190.5 mm (7.5 in.)	749.3 mm (29.5 in.)	838.2 mm (33 in.)
ER6422	600 mm	1200 mm	190.5 mm (7.5 in.)	876.3 mm (34.5 in.)	1041.4 mm (41 in.)

Vertical Mounting Flange Adjustment

▲ WARNING

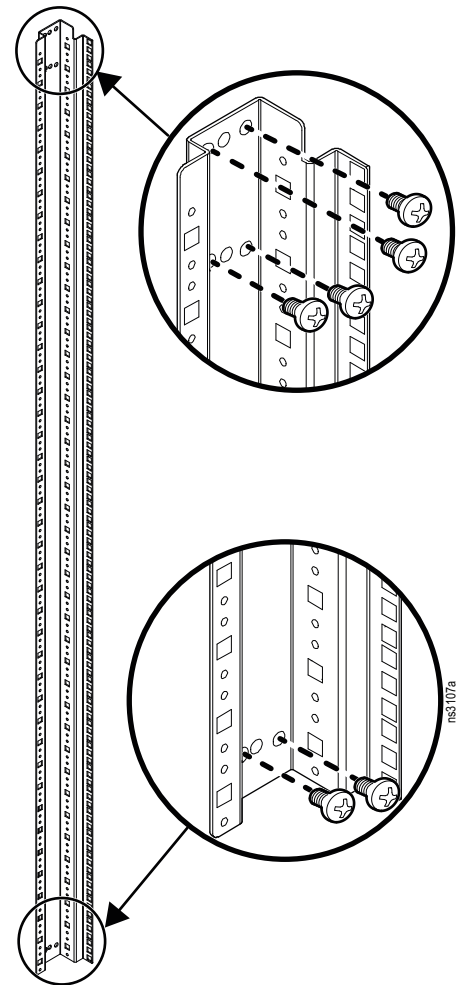
FALLING EQUIPMENT

Remove all equipment installed on the vertical mounting flanges before performing any adjustments.

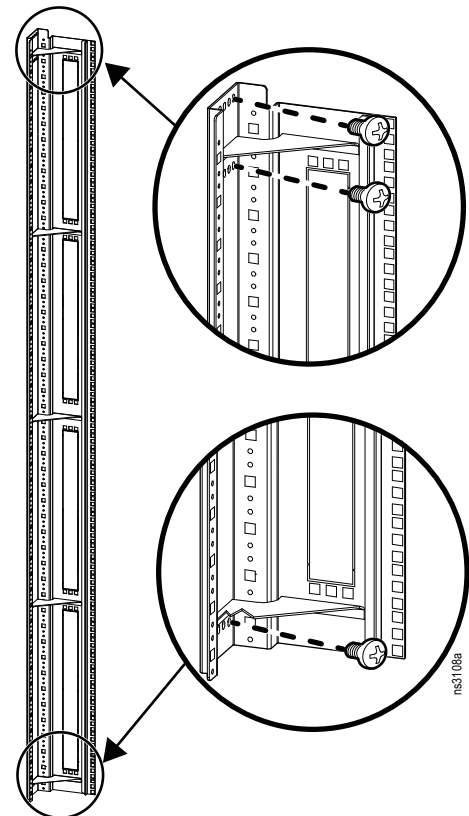
Failure to follow these instructions can result in death, serious injury, or equipment damage.

Loosen the top and bottom screws holding the vertical mounting flange in place. The brackets, all held in place by the screws, will now be loose. Move all three brackets to the desired position.

Brackets for 600 mm wide cabinet:



Brackets for 800 mm wide cabinet:



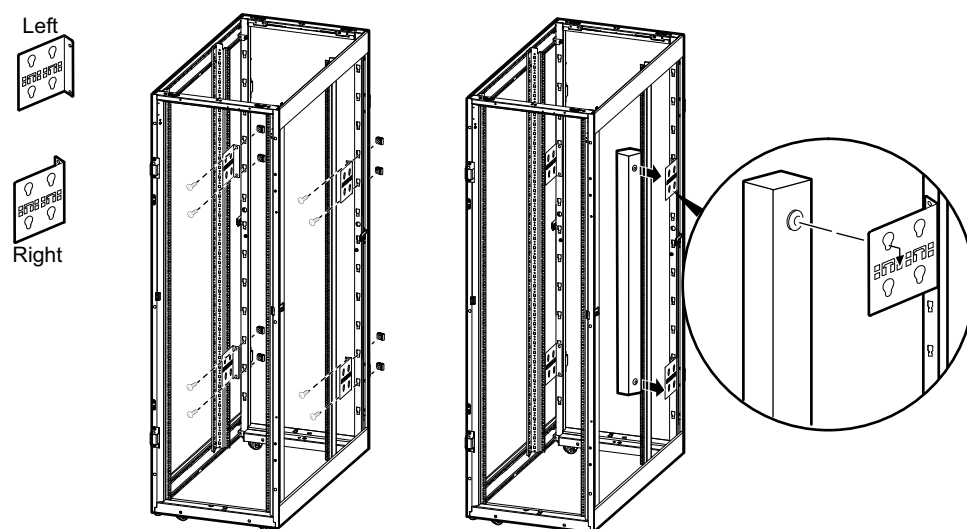
Zero U Accessory Mounting Brackets

The Zero U Accessory Mounting Brackets may be moved to different locations within the rack in order to mount your equipment. There are two different Mounting Brackets in the rack. One for the left side and one for the right side. The smallest part of the mounting holes in the bracket should be at the bottom when it is in the proper position.

To reposition the Zero U Mounting Bracket

The Mounting Bracket is attached to the rack with two (2) M6 x 12 pan head T30 screws and two (2) cage nuts.

1. Remove the two (2) M6 x 12 pan head T30 screws with the Torx tool (provided).
2. Remove the Mounting Bracket and then, remove the cage nuts from their current location.
3. Install the cage nuts in the location you have chosen to mount your equipment.
4. Install the Mounting Bracket with the two (2) M6 x 12 pan head T30 screws.
5. Mount your equipment. Mounting a Rack PDU with a toolless mounting bracket is shown in the illustration below.



The Easy Rack is shown with doors and side panels removed for clarity.

Install the Equipment

⚠ WARNING

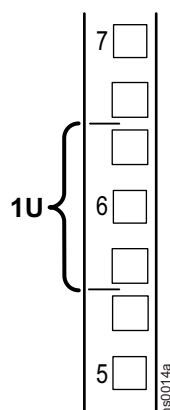
TIP HAZARD

- This rack is easily tipped. Make sure you have secured the rack to the floor before installing equipment.
- Install the heaviest equipment first and toward the bottom of the rack to prevent the rack from becoming top-heavy.
- Do not extend equipment on sliding rails until you have 150 kg (350 lb) of equipment installed in the bottom of the rack for stability or until the rack is bolted to the floor and secured to neighboring racks in the row. Never extend more than one piece of equipment on sliding rails at a time.

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

To install rack-mount equipment in the cabinet:

1. Review the equipment manufacturer's installation instructions.
2. Locate the top and bottom U space on the vertical mounting rails. Every third hole on the mounting rails is numbered to indicate the middle of a U space.
3. Install the cage nuts on the interior of the vertical mounting rail; then install the equipment.



Cage Nuts

Cage nuts are provided in the hardware bag inside the rack.

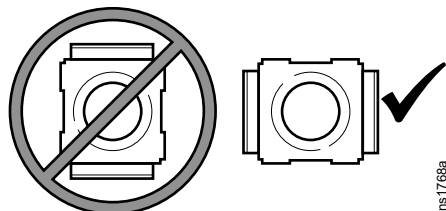
⚠ CAUTION

FALLING EQUIPMENT HAZARD

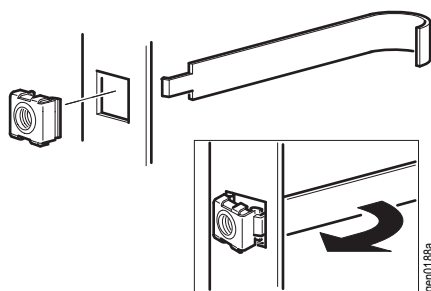
Do NOT install cage nuts vertically with the tabs engaging the top and bottom of the square hole.

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

- Install cage nuts horizontally, with the tabs engaging the sides of the square hole.
- Install the cage nuts on the interior of the vertical mounting rail.

**Installation:**

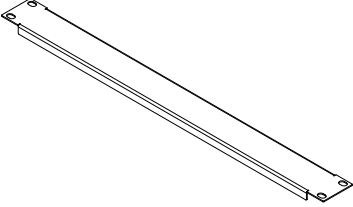
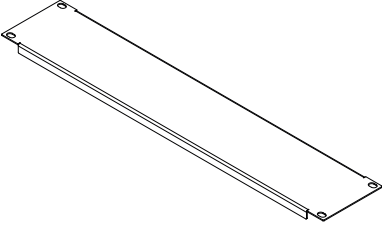
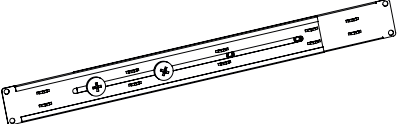
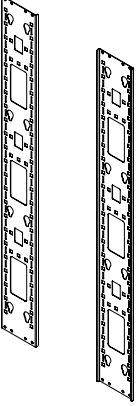
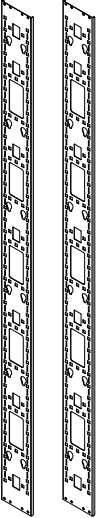
1. From the inside of the rack, insert the cage nut into the square hole.
2. Hook one tab of the cage nut assembly through the far side of the hole.
3. Place the cage nut tool on the other side of the cage nut and pull to snap it into position.

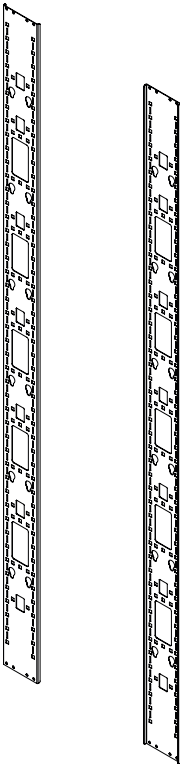
**Removal:**

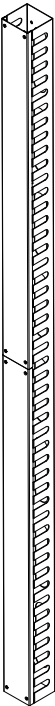
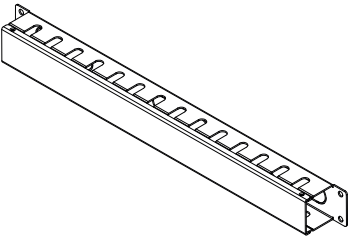
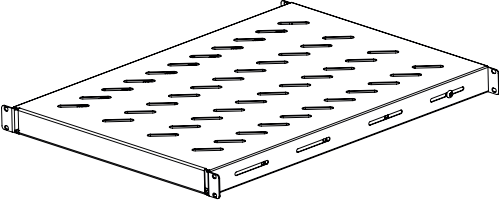
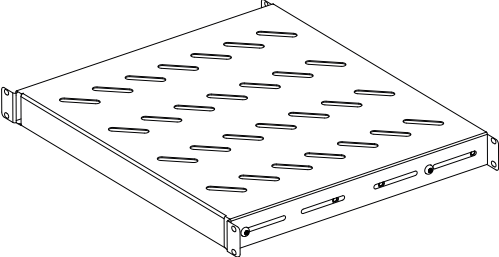
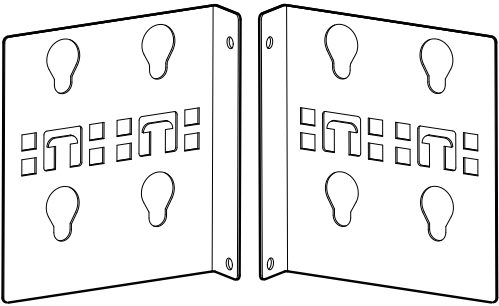
1. Remove any attached screw.
2. Grasp the cage nut and squeeze the sides to release it from the square hole.

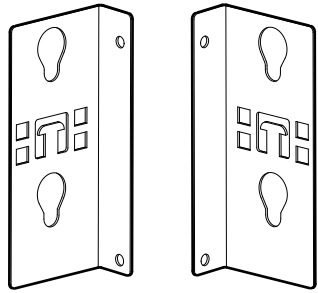
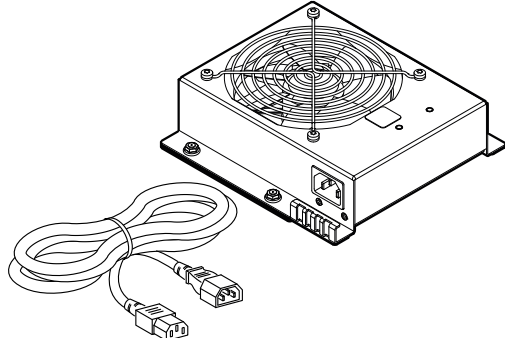
Accessories

Optional accessories can be ordered separately. Installation hardware is included with the accessory. See accessory list below.

SKU	Description	
ER7BP1U	1U Blanking panel, Qty 10	
ER7BP2U	2U Blanking panel, Qty 10	
ER7DCM	1U Cable manager, for use along the depth of the Easy Rack, Qty 1	
ER7RCC24	0U Rear Cable Channel, for use in 24U Easy Rack, Qty 2	
ER7RCC42	0U Rear Cable Channel, for use in 42U Easy Rack, Qty 2	

ER7RCC48	0U Rear Cable Channel, for use in 48U Easy Rack, Qty 2	 Two long, narrow, rectangular metal channels with multiple mounting holes along their length, designed for cable management in a rack.
ER7VCM42	42U Vertical cable manager for installation in rear of 42U Easy Rack, Qty 1	 A long, narrow, vertical metal cable manager with a series of horizontal slots along its length for cable routing.

ER7VCM48	48U Vertical cable manager for installation in rear of 48U Easy Rack, Qty 1	
ER7HCM	1U Horizontal cable management for installation in front of Easy Rack, Qty 1	
ER7SHELF	Shelf, 50kg, for use in 800mm depth rack, Qty 1	
ER7SHELFS	Accessory Shelf, Qty 1	
ER7PDUBRKT	Mounting brackets (left and right), for installation on rear of 1100 and 1200 depth Easy Racks to install PDU or cable manager, 2 pair	

ER7PDUBRKTS	Mounting brackets (left and right), for installation on rear of 800 and 1000 depth Easy Racks to install PDU or cable manager, 2 pair	 Two vertical mounting brackets, one for the left and one for the right, designed for installation on the rear of 800 and 1000 depth Easy Racks. Each bracket features a central cutout for a PDU or cable manager and two pairs of mounting holes at the top and bottom.
ER7FANTRAY	Fan tray module, Qty 1	 A fan tray module, which is a rectangular unit with a fan on top. It is shown with a cable connected to its rear panel. The cable has a standard power connector on one end and a custom connector on the other.

Specifications

General specifications for Easy Racks:

SKU	Height with Castor	Height without Castor	Width	Depth	U Space
ER6482	1198 mm (47.16 in.)	1162 mm (45.74 in.)	600 mm (23.6 in.)	800 mm (31.49 in.)	24 U
ER6222	1991 mm (78.38 in.)	1955 mm (76.96 in.)	600 mm (23.6 in.)	1200 mm (47.24 in.)	42 U
ER6212	1991 mm (78.38 in.)	1955 mm (76.96 in.)	600 mm (23.6 in.)	1100 mm (43.30 in.)	42 U
ER6202	1991 mm (78.38 in.)	1955 mm (76.96 in.)	600 mm (23.6 in.)	1000 mm (39.37 in.)	42 U
ER6282	1991 mm (78.38 in.)	1955 mm (76.96 in.)	600 mm (23.6 in.)	800 mm (31.49 in.)	42 U
ER8222	1991 mm (78.38 in.)	1955 mm (76.96 in.)	800 mm (31.49 in.)	1200 mm (47.24 in.)	42 U
ER8212	1991 mm (78.38 in.)	1955 mm (76.96 in.)	800 mm (31.49 in.)	1100 mm (43.30 in.)	42 U
ER8202	1991 mm (78.38 in.)	1955 mm (76.96 in.)	800 mm (31.49 in.)	1000 mm (39.37 in.)	42 U
ER8282	1991 mm (78.38 in.)	1955 mm (76.96 in.)	800 mm (31.49 in.)	800 mm (31.49 in.)	42 U
ER6822	2258 mm (88.89 in.)	2222 mm (87.48 in.)	600 mm (23.6 in.)	1200 mm (47.24 in.)	48 U
ER6812	2258 mm (88.89 in.)	2222 mm (87.48 in.)	600 mm (23.6 in.)	1100 mm (43.30 in.)	48 U
ER6802	2258 mm (88.89 in.)	2222 mm (87.48 in.)	600 mm (23.6 in.)	1000 mm (39.37 in.)	48 U
ER8822	2258 mm (88.89 in.)	2222 mm (87.48 in.)	800 mm (31.49 in.)	1200 mm (47.24 in.)	48 U
ER8812	2258 mm (88.89 in.)	2222 mm (87.48 in.)	800 mm (31.49 in.)	1100 mm (43.30 in.)	48 U
ER8802	2258 mm (88.89 in.)	2222 mm (87.48 in.)	800 mm (31.49 in.)	1000 mm (39.37 in.)	48 U
ER6402	1198 mm (47.16 in.)	1162 mm (45.74 in.)	600 mm (23.6 in.)	1000 mm (39.37 in.)	24U
ER6422	1198 mm (47.16 in.)	1162 mm (45.74 in.)	600 mm (23.6 in.)	1200 mm (47.24 in.)	24U

SKU	Front and Rear Door Perforation Pattern	Weight Rating: Static Load ¹	Weight Rating: Dynamic (Rolling) Load ²
All	80.8% open area	1200 kg (2640 lb.)	600 kg (1320 lb.)
¹ Lower the leveling feet if the static weight is over XXX kg (XXX lb.).			
² Dynamic (Rolling) rating valid only for rolling the rack into position.			

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