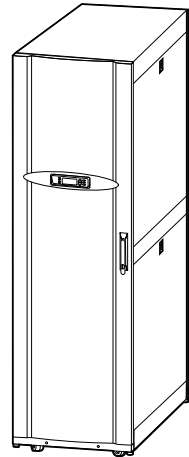




# Receiving and Unpacking

## Symmetra™ PX

48 kW 400 V, 96 kW 400 V,  
100 kW 208 V, 160 kW 400 V



### IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

#### Symbols Used



**WARNING:** Indicates an electrical hazard, which, if not avoided, could result in injury or death.



**Caution:** Indicates a hazard, which, if not avoided, could result in injury or death.



**Note:** Indicates important information.

## Weights and Dimensions

### Enclosures

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
<b>48 kW System (SYCF48KH)</b>				
Packaged	331 (729)	2140 (84)	848 (33.3)	1210 (47.6)
Unpackaged	307 (679)	2011 (79.1)	600 (23.6)	1070 (42.1)
<b>100 kW UPS (SYCF10KF)</b>				
Packaged	331 (729)	2140 (84)	848 (33.3)	1210 (47.6)
Unpackaged	307 (679)	2011 (79.1)	600 (23.6)	1070 (42.1)
<b>96 and 160 kW UPS (SYCF160KH)</b>				
Packaged	358 (789)	2140 (84)	848 (33.3)	1210 (47.6)
Unpackaged	325 (716)	2011 (79.1)	600 (23.6)	1070 (42.1)
<b>XR Battery Enclosure (SYCFXR9 and SYCFXR48)</b>				
Packaged	379 (835)	2150 (84.6)	848 (33.3)	1210 (47.6)
Unpackaged	345 (760)	1996 (78.5)	600 (23.6)	1070 (42.1)
<b>PDU-XR (PDUM160H-B)</b>				
Packaged	444 (978)	2150 (84.6)	848 (33.3)	1210 (47.6)
Unpackaged	411 (904)	2004 (78.8)	600 (23.6)	1070 (42.1)
<b>PDU (PDPM100F6F-M, PDPM100G6F-M, PDPM100L6F-M)</b>				
Packaged	862 (1900)	2150 (84.6)	1016 (40)	1210 (47.6)
Unpackaged	816 (1800)	2004 (78.8)	600 (23.6)	1070 (42.1)
<b>PDU (PDPM100F-M)</b>				
Packaged	454 (1000)	2150 (84.6)	1016 (40)	1210 (47.6)
Unpackaged	408 (900)	2004 (78.8)	600 (23.6)	1070 (42.1)
<b>Maintenance Bypass Panel (SYMBP100F, SYMBP160H)</b>				
Packaged	189 (416)	2150 (84.6)	848 (33.3)	1210 (47.6)
Unpackaged	169 (371)	2004 (78.8)	600 (23.6)	1070 (42.1)
<b>Side Car for Bottom Cable Entry (PDPM100SC)</b>				
Packaged	159 (350)	2150 (84.6)	848 (33.3)	1210 (47.6)
Unpackaged	138 (305)	2004 (78.8)	600 (23.6)	1070 (42.1)

## Modules

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
<b>Battery Unit (SYBTU2-PLP)</b>				
Packaged	27 (59.2)	180 (7)	150 (5.9)	810 (31.89)
Unpackaged	25.2 (55.3)	159 (6.2)	107 (4.2)	700 (27.5)
<b>Power Module — 400 V (SYPM10K16H)</b>				
Packaged	31.5 (69.5)	225 (8.8)	595 (23.4)	795 (31.3)
Unpackaged	28.5 (62.8)	132 (5.2)	483 (19)	700 (27.5)
<b>Power Module — 208 V (SYPM10KF)</b>				
Packaged	30 (66)	225 (8.8)	595 (23.4)	795 (31.3)
Unpackaged	26 (57.3)	132 (5.2)	483 (19)	700 (27.5)

## Receiving

### External inspection

When the shipment arrives, inspect the shipping material for any signs of damage or mishandling. Do not attempt to install the system if a damage is apparent. If any damage is noted, contact APC and file a damage claim with the shipping agency within 24 hours.

Compare the components of the shipment with the bill of lading. Report any missing items to the carrier and to APC immediately.

Verify that labelled units match the order confirmation.

## Move to Installation Site



**Caution:** Do not tip the enclosure more than 10° as it will cause damage to the enclosure.



**Caution:** If the height of the enclosure exceeds the height of the doorway, remove the enclosure from the pallet.



**Caution:** Ensure that the floor and the sub-floor can support the total weight of the system, especially when the weight is concentrated on the stabilizing feet.



**Caution:** Ensure that the floor is level. The enclosure cannot be installed on a floor that is not level.

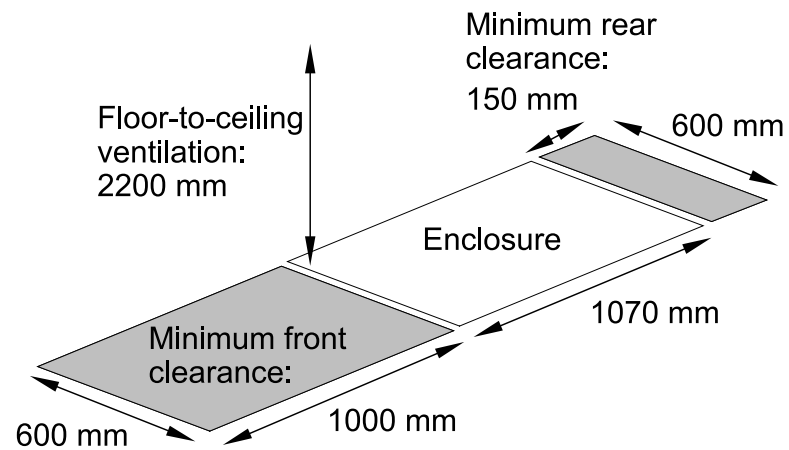


**Caution:** Use a pallet jack or a forklift to move the pallets to the installation site.

## Clearance Symmetra PX 48 kW



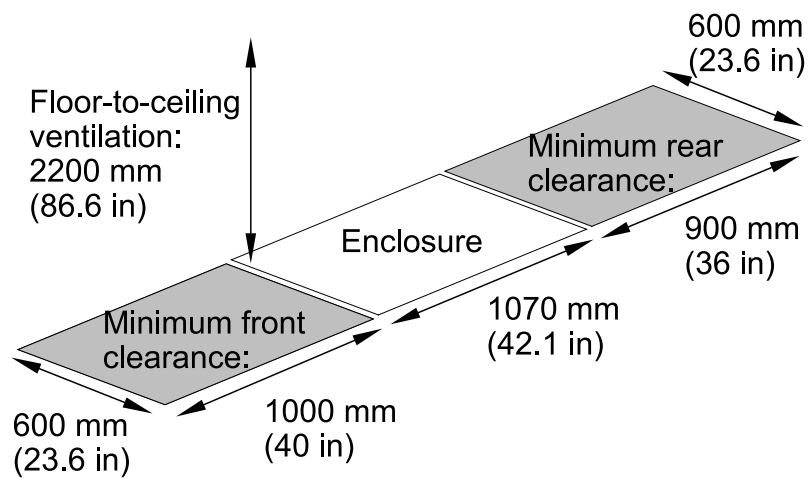
**Note:** Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.



## Clearance Symmetra PX 100 kW



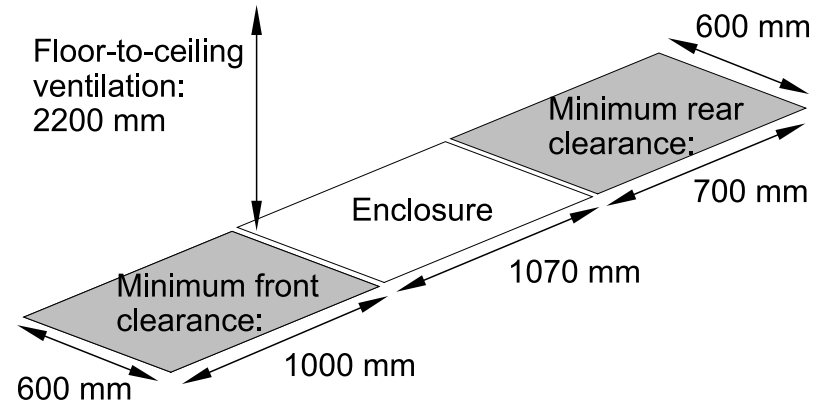
**Note:** Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.



## Clearance Symmetra PX 96 and 160 kW



**Note:** Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.



## Unpack the Enclosures



**Caution:** Do not unpack the units before the time of the installation.



**Note:** The shipping materials are recyclable. Save them for later use, or dispose of them appropriately.

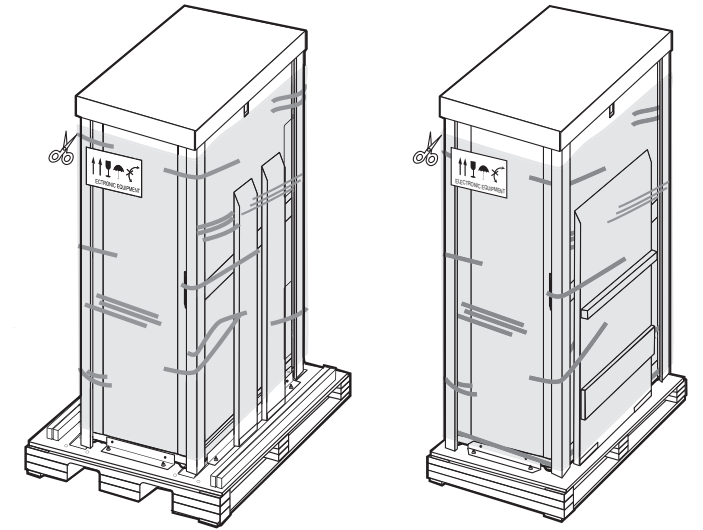


**Note:** If the system is not being installed immediately, do not remove the packaging. Store the system in an indoor, temperature-controlled area, free of conductive contaminants.

1. Cut the plastic wrap along the edges.

PDU Units

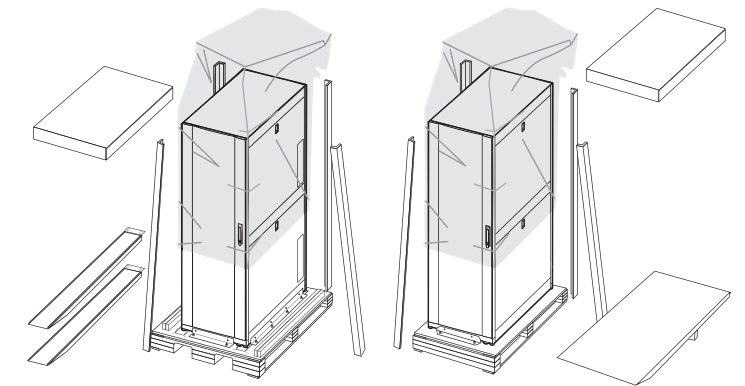
All other enclosures



2. Remove the plastic wrap and the cardboard covers. Remove the ramp(s) and set aside.

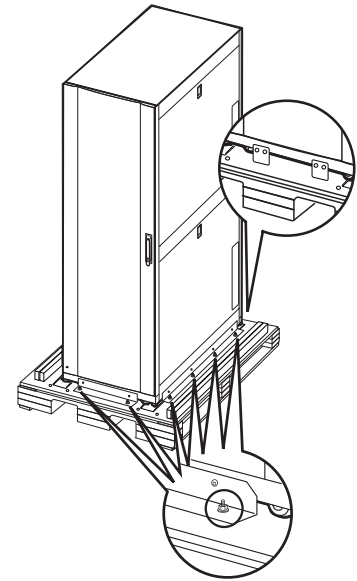
PDU Units

All other enclosures

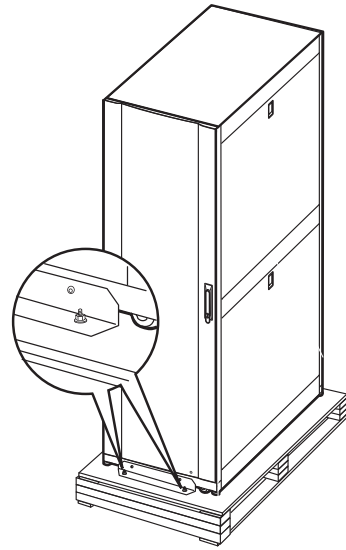


- Remove the stabilizing brackets from the front, back, and sides of the enclosures.

#### PDU Units



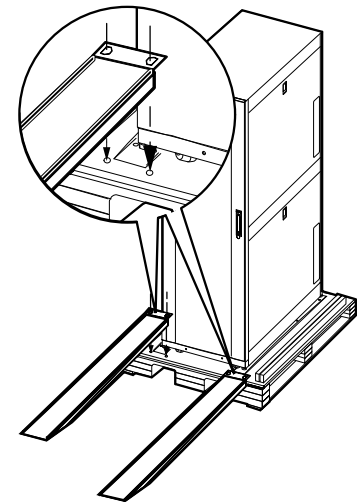
#### All other enclosures



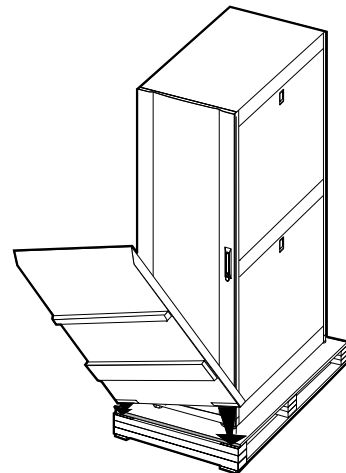
**Caution:** Risk of instability. The product could roll down the ramp too quickly, or the casters could jam into the ramp's guides, causing the product to tip over. To reduce the risk of personal injury, a minimum of two people are required to control the product as it rolls down the ramps. One person should be located in either side of the ramps. In addition, ensure a clear area around the pallet and ramps to have as an escape route in the event the product were to tip over.

- For the PDU, drop the metal taps of the two ramps into the two slots near the edge of the pallet. For all other enclosures align the hook-and-loop tape strips on the ramp to the tape strips on the pallet.

#### PDU Units

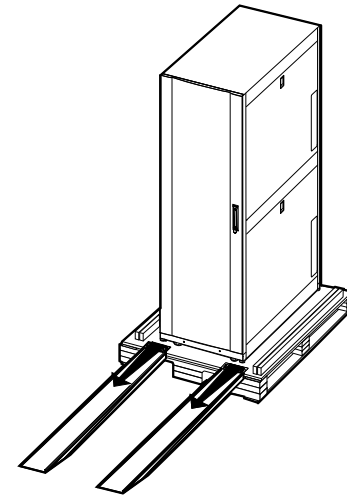


#### All other enclosures

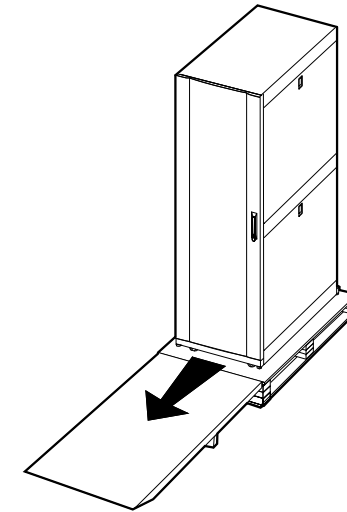


- Use two people to roll the enclosure off the pallet and guide it down the ramp. For the PDU, make sure that the metal taps remain in the slots while rolling off the unit.

#### PDU Units



#### All other enclosures



**Note:** After the unit has been removed from the pallet, move it only by rolling it on the casters.

## Storage Conditions

Storage temperature: -15°–40°C (5°–104°F)	Relative humidity: 0–95% Non-condensing	Altitude: 0–15000 m (0–50000 ft)



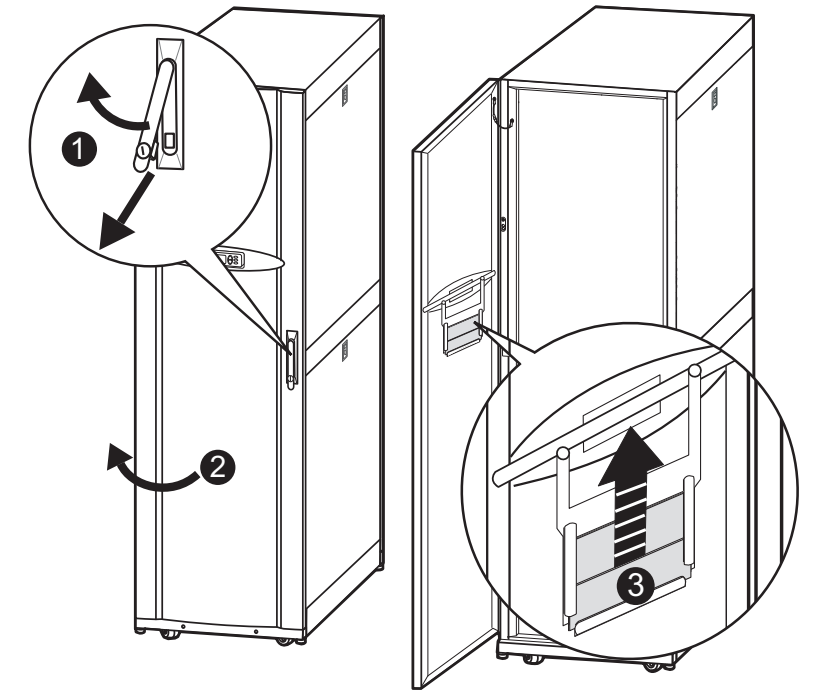
**Caution:** Do not install batteries in the UPS system before the system is ready to be started up. Failure to do so can result in a deep discharge of the batteries and cause permanent damage (the time between battery installation and UPS start-up must not exceed 72 hours or three days).



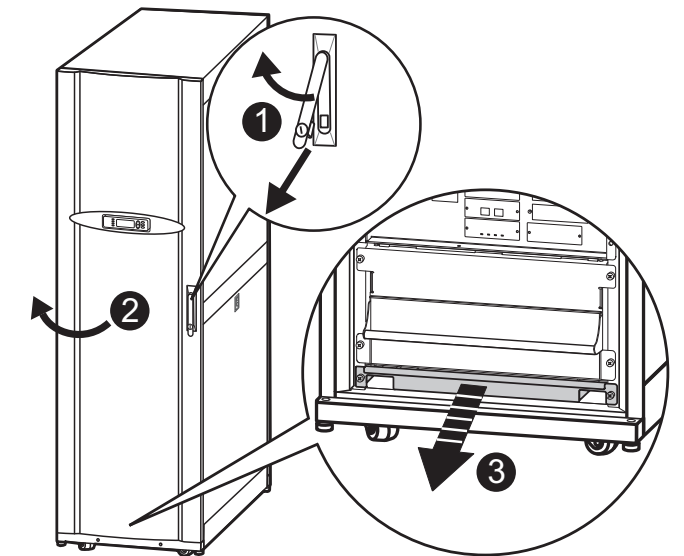
**Note:** Stored batteries should be recharged at regular intervals, depending on the storage temperature.

## Documentation Storage

### 48 kW System



### 96, 100, and 160 kW Systems



## Contact Information

For local, country-specific centers: go to [www.apc.com/support/contact](http://www.apc.com/support/contact).