

# Galaxy PW 2nd Gen

## IP42 Kit for UPS

### Installation

EPWOPT017, EPWOPT018, EPWOPT019, EPWOPT020

Latest updates are available on the Schneider Electric website  
11/2025



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# 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 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.

Per IEC 62040-1: "Uninterruptible power systems (UPS) -- Part 1: Safety Requirements," this equipment, including battery access, must be inspected, installed and maintained by a skilled person.

The skilled person is a person with relevant education and experience to enable him or her to perceive risks and to avoid hazards which the equipment can create (reference IEC 62040-1, section 3.102).

## Safety Precautions

### **⚠ DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

All safety instructions in this document must be read, understood and followed.

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

### **⚠ DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Read all instructions in the Installation Manual before installing or working on this UPS system.

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

### **⚠ DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

The UPS system must be installed according to local and national regulations. Install the UPS according to:

- IEC 60364 (including 60364-4-41- protection against electric shock, 60364-4-42 - protection against thermal effect, and 60364-4-43 - protection against overcurrent), **or**
- NEC NFPA 70, **or**
- Canadian Electrical Code (C22.1, Part 1)

depending on which one of the standards apply in your local area.

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

### **⚠ DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Do not make mechanical changes to the product (including removal of cabinet parts or drilling/cutting of holes) that are not described in the Installation Manual.

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

### **NOTICE**

#### **RISK OF OVERHEATING**

Respect the space requirements around the UPS system and do not cover the product's ventilation openings when the UPS system is in operation.

**Failure to follow these instructions can result in equipment damage.**

## Electrical Safety

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH**

- Electrical equipment must be installed, operated, serviced, and maintained only by qualified personnel.
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- Turn off all power supplying the UPS system before working on or inside the equipment.
- Before working on the UPS system, check for hazardous voltage between all terminals including the protective earth.
- The UPS contains an internal energy source. Hazardous voltage can be present even when disconnected from the utility/mains supply. Before installing or servicing the UPS system, ensure that the units are OFF and that utility/mains and batteries are disconnected. Wait five minutes before opening the UPS to allow the capacitors to discharge.
- A disconnection device (e.g. disconnection circuit breaker or switch) must be installed to enable isolation of the system from upstream power sources in accordance with local regulations. This disconnection device must be easily accessible and visible.
- The UPS must be properly earthed/grounded and due to a high touch current/leakage current, the earthing/grounding conductor must be connected first.

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

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Always perform correct Lockout/Tagout before working on the UPS.
- A UPS with autostart enabled will automatically restart when the mains supply returns.
- If autostart is enabled on the UPS, a label must be added on the UPS to warn about this functionality.

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

Add the label below on the UPS if autostart has been enabled:

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Autostart is enabled. The UPS will automatically restart when the mains supply returns.

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

## Model List

- EPWOPT017: Galaxy PW 2nd Gen 10-60 kVA, IP42 kits for 800 mm width cabinets
- EPWOPT018: Galaxy PW 2nd Gen 60-80 kVA, IP42 kits for 800 mm width cabinets
- EPWOPT019: Galaxy PW 2nd Gen, IP42 kits for 1200 mm width cabinets
- EPWOPT020: Galaxy PW 2nd Gen, IP42 kits for 1600 mm width cabinets

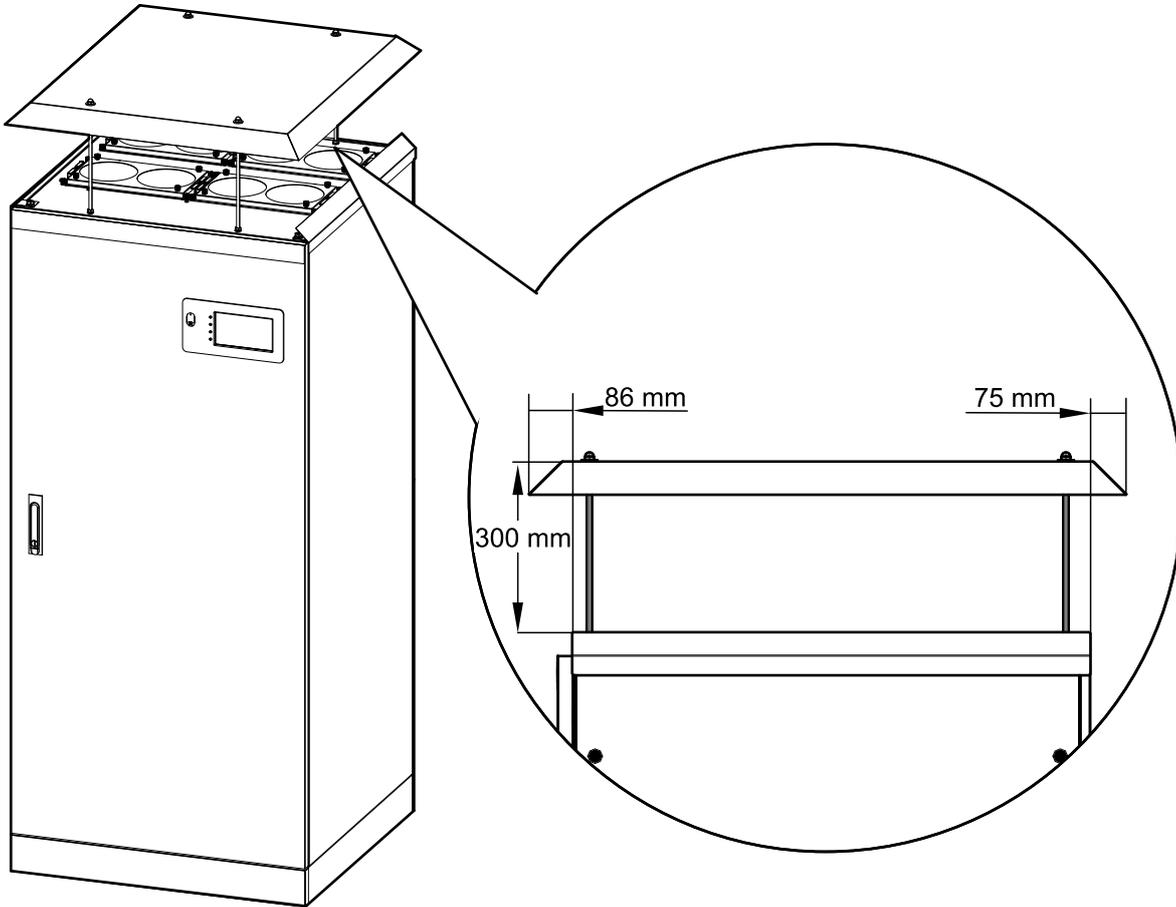
# Applicable Products

| UPS commercial reference | UPS description  | Applicable IP42 kit |
|--------------------------|--|---------------------|
| EPWUPS10KU6PTS           | Galaxy PW 2nd Gen UPS 10 kVA 3:1, 220 VAC 6P, 220 VDC  | EPWOPT017           |
| EPWUPS20KU6PTS           | Galaxy PW 2nd Gen UPS 20 kVA 3:1, 220 VAC 6P, 220 VDC  | EPWOPT017           |
| EPWUPS30KU6PTS           | Galaxy PW 2nd Gen UPS 30 kVA 3:1, 220 VAC 6P, 220 VDC  | EPWOPT017           |
| EPWUPS40KU12PTS          | Galaxy PW 2nd Gen UPS 40 kVA 3:1, 220 VAC 12P, 220 VDC   | EPWOPT017           |
| EPWUPS10KH6PS            | Galaxy PW 2nd Gen 10 kVA 3:3 UPS 380 VAC 6P 384VDC   | EPWOPT017           |
| EPWUPS20KH6PS            | Galaxy PW 2nd Gen 20 kVA 3:3 UPS 380 VAC 6P 384VDC   | EPWOPT017           |
| EPWUPS30KH6PS            | Galaxy PW 2nd Gen 30 kVA 3:3 UPS 380 VAC 6P 384VDC   | EPWOPT017           |
| EPWUPS40KH6PS            | Galaxy PW 2nd Gen 40 kVA 3:3 UPS 380 VAC 6P 384VDC   | EPWOPT017           |
| EPWUPS50KU12PTS          | Galaxy PW 2nd Gen 50 kVA 3:1 UPS 220 VAC 12 Pulse 220 VDC with input transformer, Startup 5x8  | EPWOPT019           |
| EPWUPS60KU6PS            | Galaxy PW 2nd Gen 60 kVA 3:1 UPS 220 VAC 6 pulse 384 VDC, Startup 5x8                          | EPWOPT018           |
| EPWUPS60KH6PS            | Galaxy PW 2nd Gen 60 kVA 3:3 UPS 380 VAC 6P 384VDC   | EPWOPT017           |
| EPWUPS60KU12PTS          | Galaxy PW 2nd Gen 60 kVA 3:1 UPS 220 VAC 12 Pulse 220 VDC with input transformer, Startup 5x8  | EPWOPT019           |
| EPWUPS80KU6PS            | Galaxy PW 2nd Gen 80 kVA 3:1 UPS 380 VAC 6 Pulse 384 VDC, Startup 5x8                          | EPWOPT018           |
| EPWUPS80KH6PS            | Galaxy PW 2nd Gen 80 kVA 3:3 UPS 380 VAC 6P 384VDC   | EPWOPT018           |
| EPWUPS80KU12PTS          | Galaxy PW 2nd Gen 80 kVA 3:1 UPS 220 VAC 12 Pulse 220 VDC with input transformer, Startup 5x8  | EPWOPT019           |
| EPWUPS100KU12PTS         | Galaxy PW 2nd Gen 100 kVA 3:1 UPS 220 VAC 12 Pulse 220 VDC with input transformer, Startup 5x8 | EPWOPT020           |
| EPWUPS100KH12PS          | Galaxy PW 2nd Gen 100 kVA 3:3 UPS 380 VAC 12P 384VDC   | EPWOPT019           |
| EPWUPS120KU12PTS         | Galaxy PW 2nd Gen 120 kVA 3:1 UPS 220 VAC 12 Pulse 220 VDC with input transformer, Startup 5x8 | EPWOPT020           |
| EPWUPS120KH12PS          | Galaxy PW 2nd Gen 120 kVA 3:3 UPS 380 VAC 12P 384VDC   | EPWOPT019           |
| EPWUPS160KH12PS          | Galaxy PW 2nd Gen 160 kVA 3:3 UPS 380 VAC 12 Pulse 384 VDC, Startup 5x8                        | EPWOPT020           |
| EPWUPS200KH12PS          | Galaxy PW 2nd Gen 200 kVA 3:3 UPS 380 VAC 12 Pulse 384 VDC, Startup 5x8                        | EPWOPT020           |
| EPWUPS10KU12PTS          | Galaxy PW 2nd Gen UPS 10 kVA 3:1, 220 VAC 12P, 220 VDC   | EPWOPT017           |
| EPWUPS20KU12PTS          | Galaxy PW 2nd Gen UPS 20 kVA 3:1, 220 VAC 12P, 220 VDC   | EPWOPT017           |
| EPWUPS30KU12PTS          | Galaxy PW 2nd Gen UPS 30 kVA 3:1, 220 VAC 12P, 220 VDC   | EPWOPT017           |
| EPWUPS10KU6PS            | Galaxy PW 2nd Gen 10 kVA 3:1 UPS 220 VAC 6P, 384VDC  | EPWOPT017           |
| EPWUPS20KU6PS            | Galaxy PW 2nd Gen 20 kVA 3:1 UPS 220 VAC 6P 384VDC   | EPWOPT017           |
| EPWUPS30KU6PS            | Galaxy PW 2nd Gen 30 kVA 3:1 UPS 220 VAC 6P 384VDC   | EPWOPT017           |
| EPWUPS40KU6PS            | Galaxy PW 2nd Gen 40 kVA 3:1 UPS 220 VAC 6P 384VDC   | EPWOPT017           |

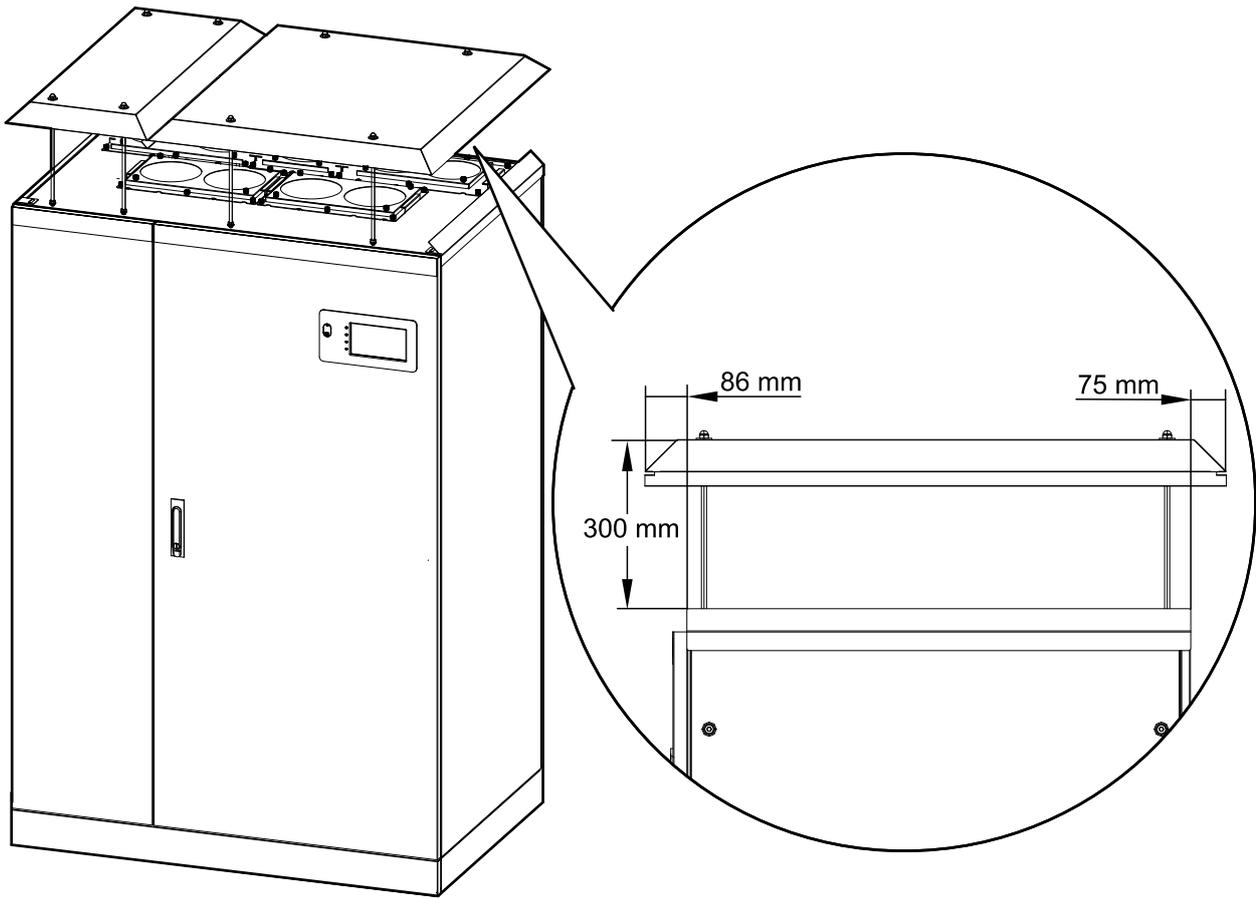
# Specifications

## IP Kit Dimensions When Installed

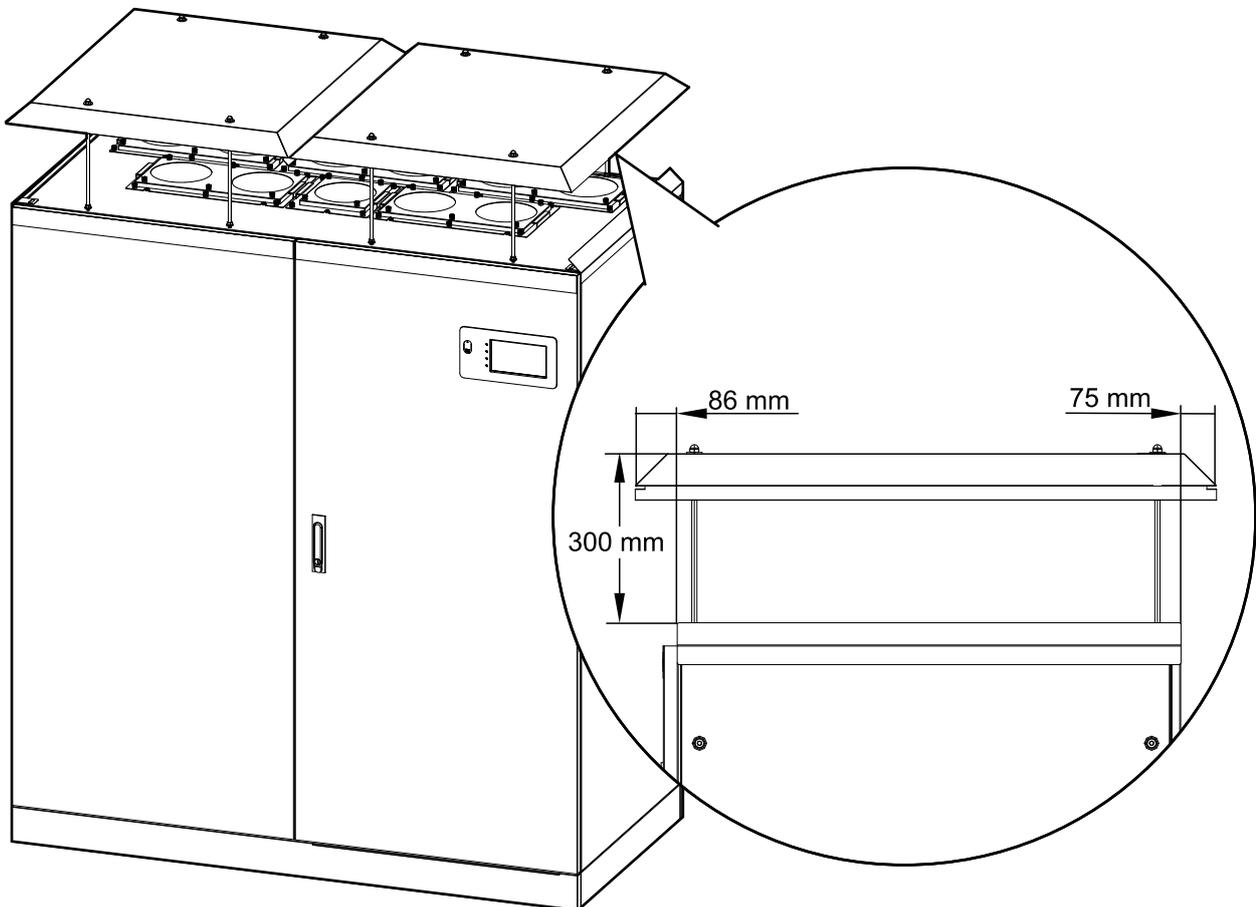
### 800 mm Wide UPS



**1200 mm Wide UPS**



**1600 mm Wide UPS**



## Load Derating for UPS with IP42 Kit Installed

### NOTICE

#### RISK OF OVERHEATING

- A UPS with IP42 kit may require load derating / overload derating. See table below.
- Read all instructions in the installation manual before installing or working on the UPS.

**Failure to follow these instructions can result in equipment damage.**

| UPS rating | UPS commercial reference | Maximum continuous load at 30 °C | Maximum continuous load at 35 °C | Maximum continuous load at 40 °C |
|------------|--------------------------|----------------------------------|----------------------------------|----------------------------------|
| 10 kW      | EPWUPS10KU6PT            | 8kVA/6.8kW                       | 8kVA/6.4kW                       | 6kVA/5.2kW                       |
|            | EPWUPS10KU12PT           | 8kVA/6.8kW                       | 8kVA/6.4kW                       | 6kVA/5.2kW                       |
|            | EPWUPS10KU6P             | 8kVA/6.8kW                       | 8kVA/6.4kW                       | 6kVA/5.2kW                       |
|            | EPWUPS10KH6P             | 8kVA/6.8kW                       | 8kVA/6.4kW                       | 6kVA/5.2kW                       |
| 20 kW      | EPWUPS20KU6PT            | 17kVA/13.6kW                     | 16kVA/12.8kW                     | 13kVA/10.4kW                     |
|            | EPWUPS20KU12PT           | 17kVA/13.6kW                     | 16kVA/12.8kW                     | 13kVA/10.4kW                     |
|            | EPWUPS20KU6P             | 17kVA/13.6kW                     | 16kVA/12.8kW                     | 13kVA/10.4kW                     |
|            | EPWUPS20KH6P             | 17kVA/13.6kW                     | 16kVA/12.8kW                     | 13kVA/10.4kW                     |
| 30 kW      | EPWUPS30KU6PT            | 25kVA/20.4kW                     | 24kVA/19.2kW                     | 19kVA/15.6kW                     |
|            | EPWUPS30KU12PT           | 25kVA/20.4kW                     | 24kVA/19.2kW                     | 19kVA/15.6kW                     |
|            | EPWUPS30KU6P             | 25kVA/20.4kW                     | 24kVA/19.2kW                     | 19kVA/15.6kW                     |
|            | EPWUPS30KH6P             | 25kVA/20.4kW                     | 24kVA/19.2kW                     | 19kVA/15.6kW                     |
| 40 kW      | EPWUPS40KU12PT           | 34kVA/27.2kW                     | 32kVA/25.6kW                     | 26kVA/20.8kW                     |
|            | EPWUPS40KU6P             | 34kVA/27.2kW                     | 32kVA/25.6kW                     | 26kVA/20.8kW                     |
|            | EPWUPS40KH6P             | 34kVA/27.2kW                     | 32kVA/25.6kW                     | 26kVA/20.8kW                     |
| 50 kW      | EPWUPS50KU12PT           | 42kVA/34kW                       | 40kVA/32kW                       | 32kVA/26kW                       |
| 60 kW      | EPWUPS60KU12PT           | 51kVA/40.8kW                     | 48kVA/38.4kW                     | 39kVA/31.2kW                     |
|            | EPWUPS60KU6P             | 51kVA/40.8kW                     | 48kVA/38.4kW                     | 39kVA/31.2kW                     |
|            | EPWUPS60KH6P             | 51kVA/40.8kW                     | 48kVA/38.4kW                     | 39kVA/31.2kW                     |
| 80 kW      | EPWUPS80KU12PT           | 68kVA/54.4kW                     | 64kVA/51.2kW                     | 52kVA/41.6kW                     |
|            | EPWUPS80KU6P             | 68kVA/54.4kW                     | 64kVA/51.2kW                     | 52kVA/41.6kW                     |
|            | EPWUPS80KH6P             | 68kVA/54.4kW                     | 64kVA/51.2kW                     | 52kVA/41.6kW                     |
| 100 kW     | EPWUP-S100KU12PT         | 85kVA/68kW                       | 80kVA/64kW                       | 65kVA/52kW                       |
|            | EPWUPS100KH12P           | 85kVA/68kW                       | 80kVA/64kW                       | 65kVA/52kW                       |
| 100 kW     | EPWUP-S120KU12PT         | 102kVA/81.6kW                    | 96kVA/76.8kW                     | 78kVA/62.4kW                     |
|            | EPWUPS120KH12P           | 102kVA/81.6kW                    | 96kVA/76.8kW                     | 78kVA/62.4kW                     |
| 160 kW     | EPWUPS160KH12P           | 136kVA/108.8kW                   | 128kVA/102.4kW                   | 104kVA/83.2kW                    |
| 200 kW     | EPWUPS200KH12P           | 170kVA/136kW                     | 160kVA/128kW                     | 130kVA/104kW                     |

## Torque Specifications

| Bolt size | Torque |
|-----------|--------|
| M4        | 1 Nm   |
| M5        | 2 Nm   |
| M6        | 7 Nm   |
| M8        | 5 Nm   |

# Install the IP42 Kit on a 800 mm Wide UPS

## ⚠ WARNING

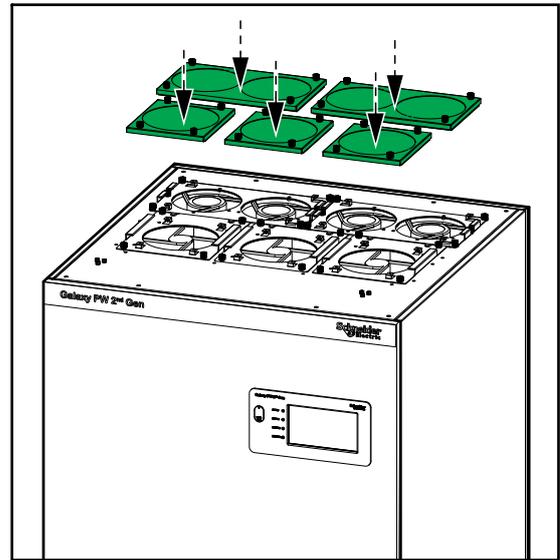
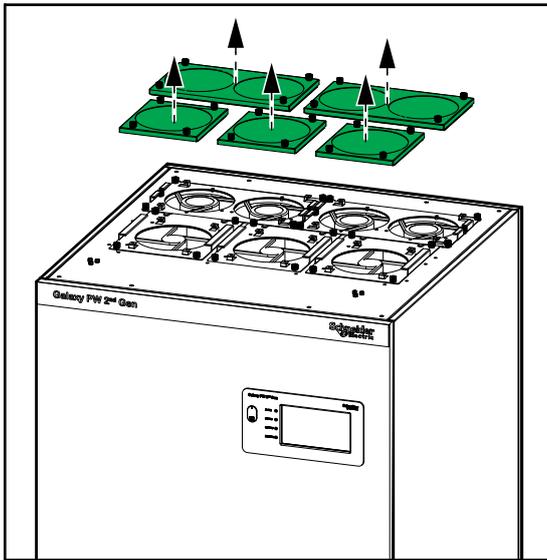
### TIPPING HAZARD

Shut down the UPS system completely before installing the kit.

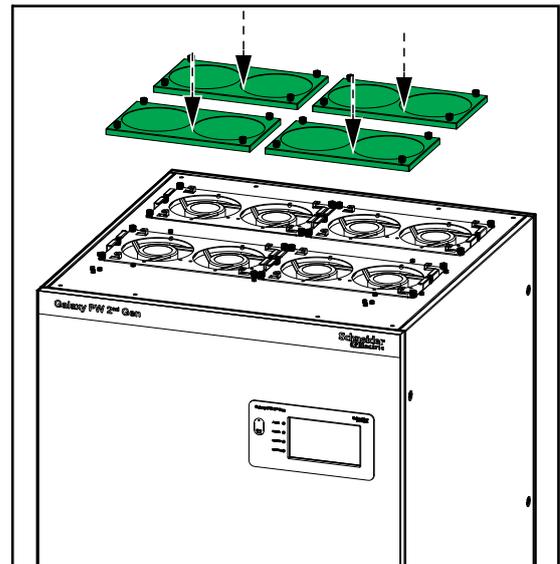
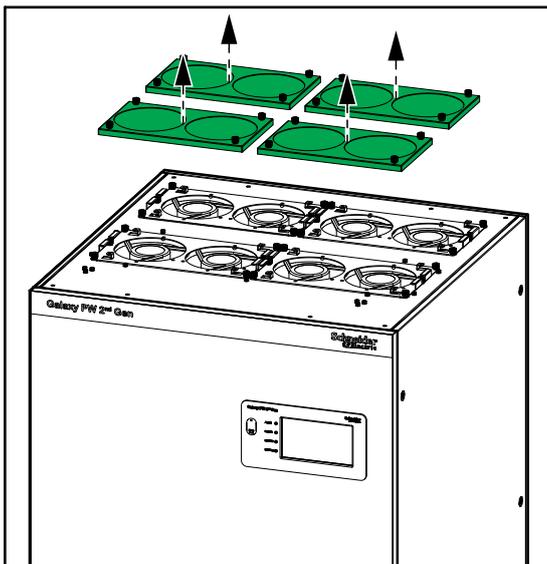
**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

1. Install the IP42 top assembly:
  - a. Remove the existing fan plates. Save the screws for reuse and discard the fan plates. Install the new fan plates with the reused screws.

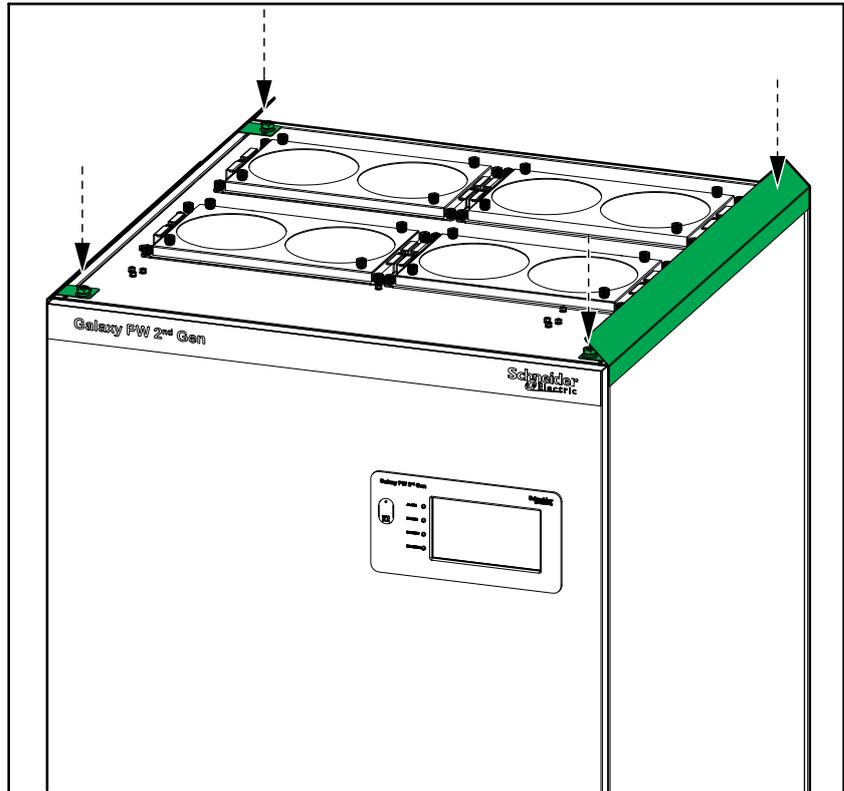
### 10-60 kVA UPS



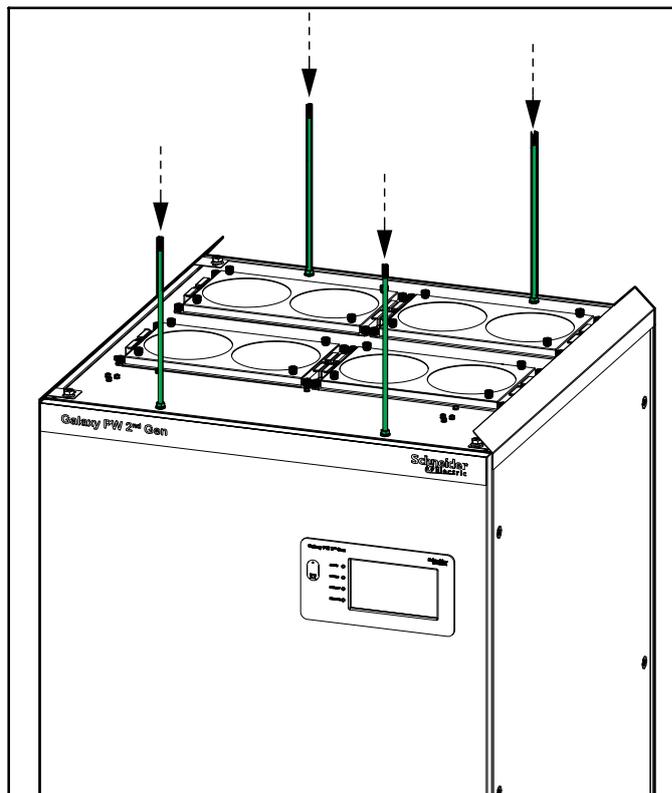
### 60-80 kVA UPS



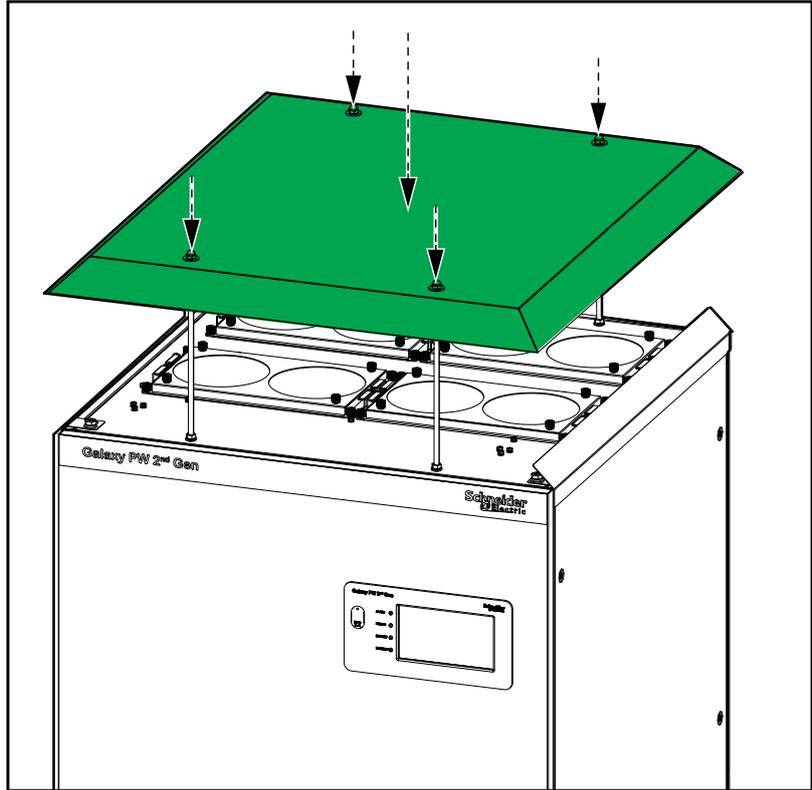
- b. Install the two water guard sheets on the UPS with the four provided M8 screws.



- c. Install the provided rods on the UPS.

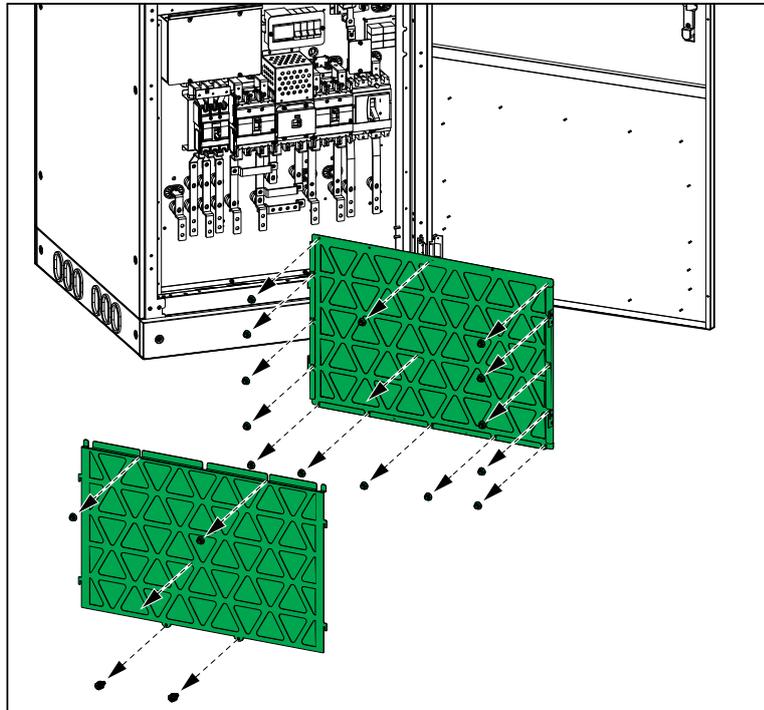


- d. Install the top cover on the UPS with the four provided M8 screws.



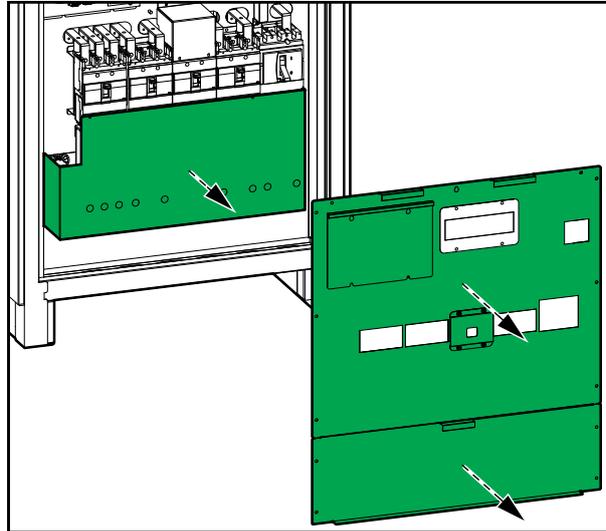
- 2. Install the IP42 front assembly:
  - a. Open the front door of the UPS.
  - b. Remove the cover plate and the air filter from the front door. Discard the old air filter and save the screws for reuse.

**Front View of the UPS**



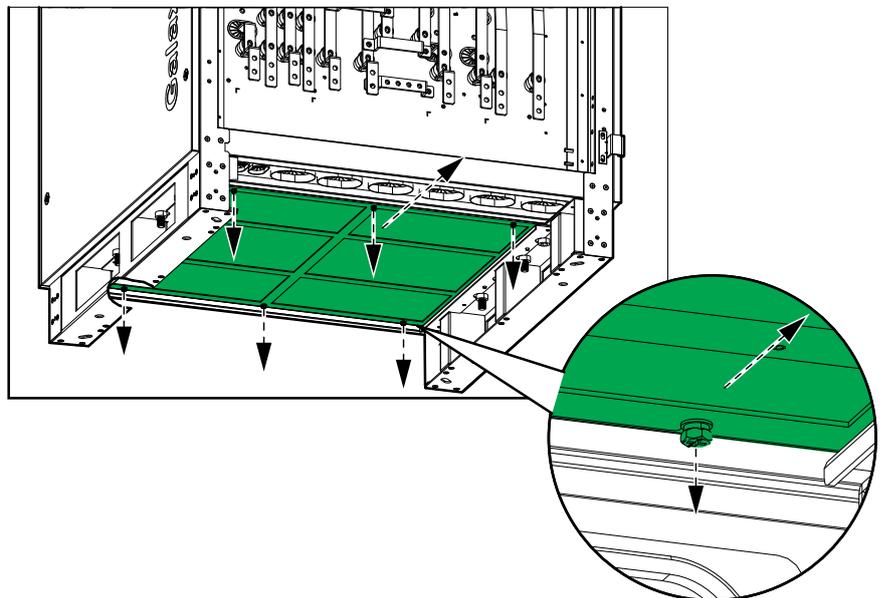
- c. Install the new air filter with the reused screws and reinstall the cover plate on the front door.
3. Install the IP42 bottom assembly:
  - a. Remove the front and rear kick plates. Save all parts for reinstallation.
  - b. Remove the indicated covers. Save all parts for reinstallation.

#### Front View of the UPS



- c. Remove all cables from all the cable openings in the bottom of the UPS.
- d. Remove the three front screws from the bottom plate and save the screws for reuse. Loosen the three rear screws. Pull the bottom air filter out from towards front. Discard the old bottom air filter.

#### Front View of the UPS



- e. Install the new bottom air filter with the reused screws.
- f. Reconnect the cables and reinstall the kick plates.

# Install the IP42 Kit on a 1200 mm Wide UPS

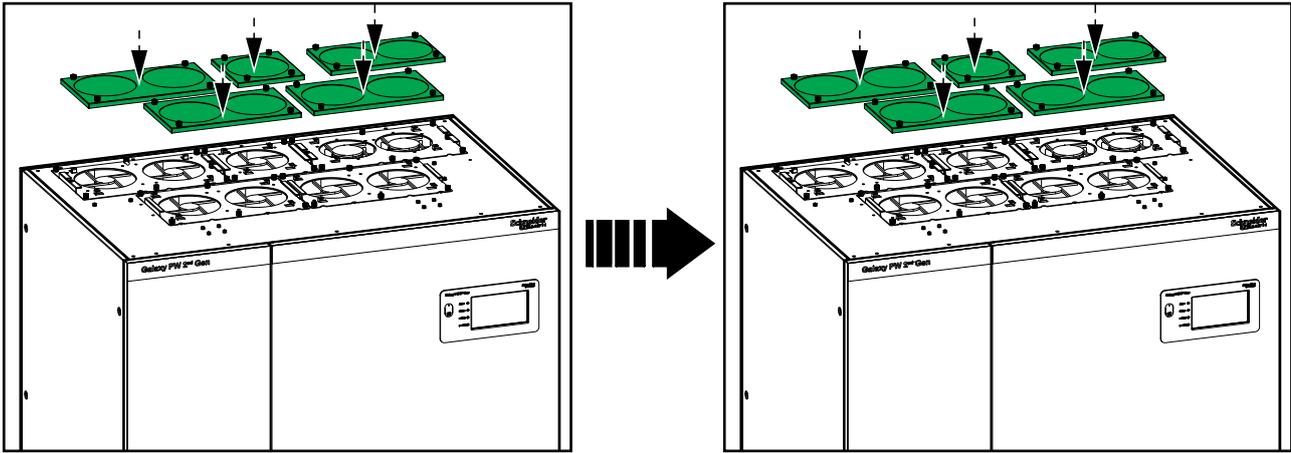
## ⚠ WARNING

### TIPPING HAZARD

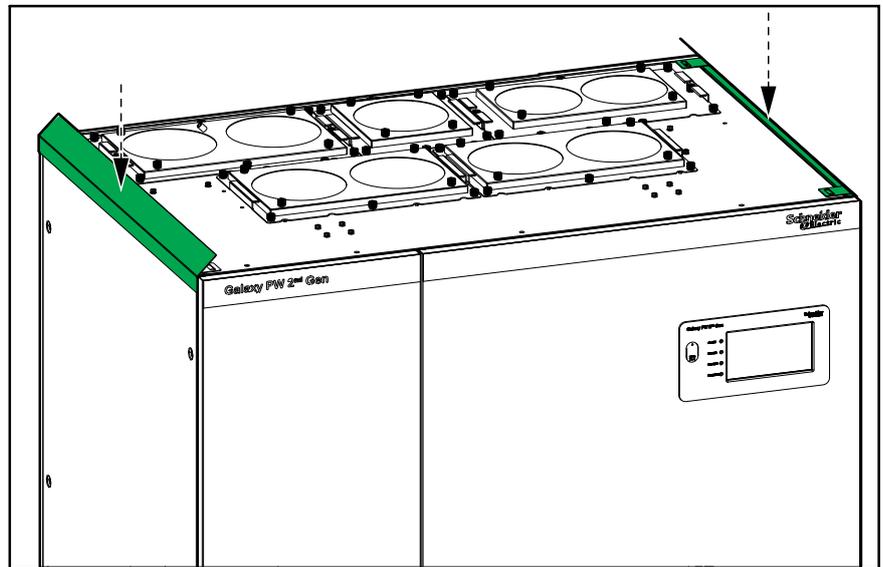
Shut down the UPS system completely before installing the kit.

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

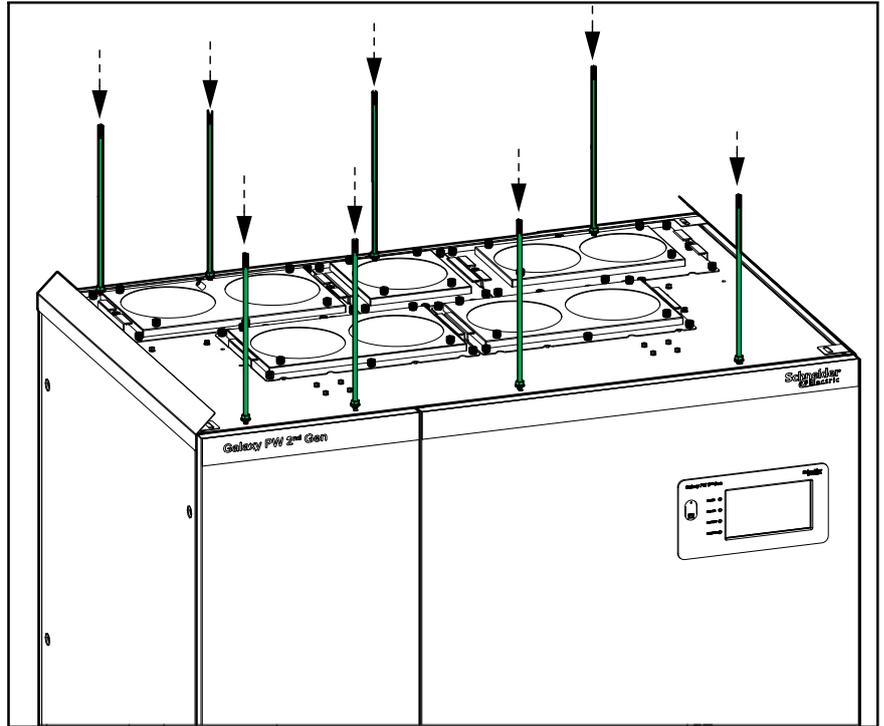
1. Install the IP42 top assembly:
  - a. Remove the existing fan plates. Save the screws for reuse and discard the fan plates. Install the new fan plates with the reused screws.



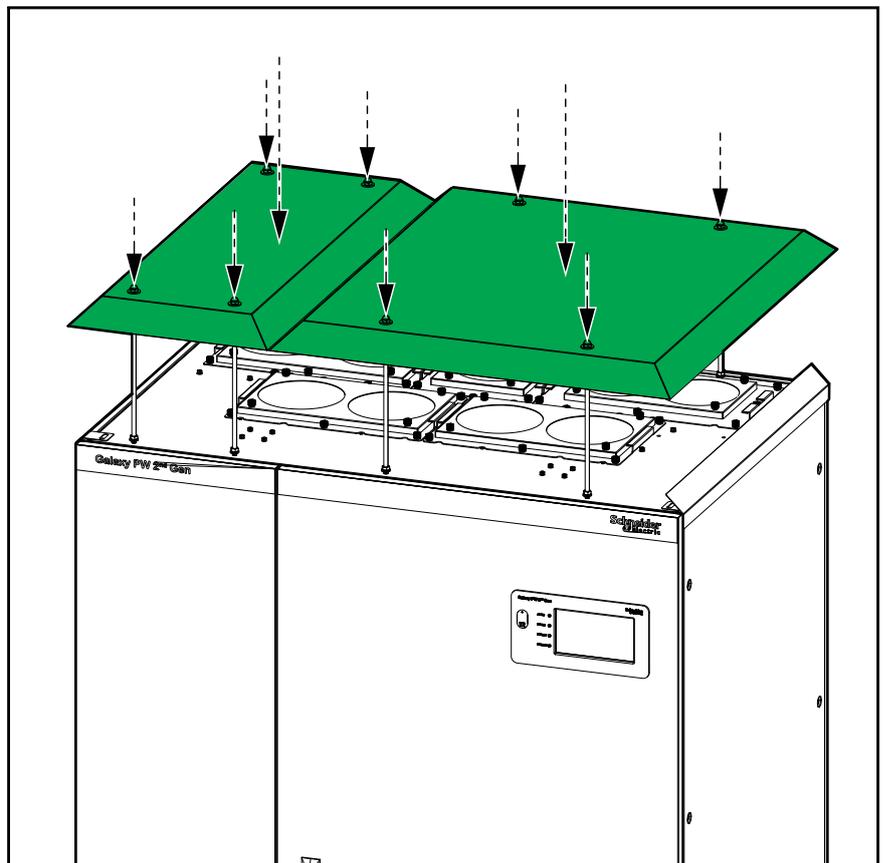
- b. Install the two water guard sheets on the UPS with the four provided M8 screws.



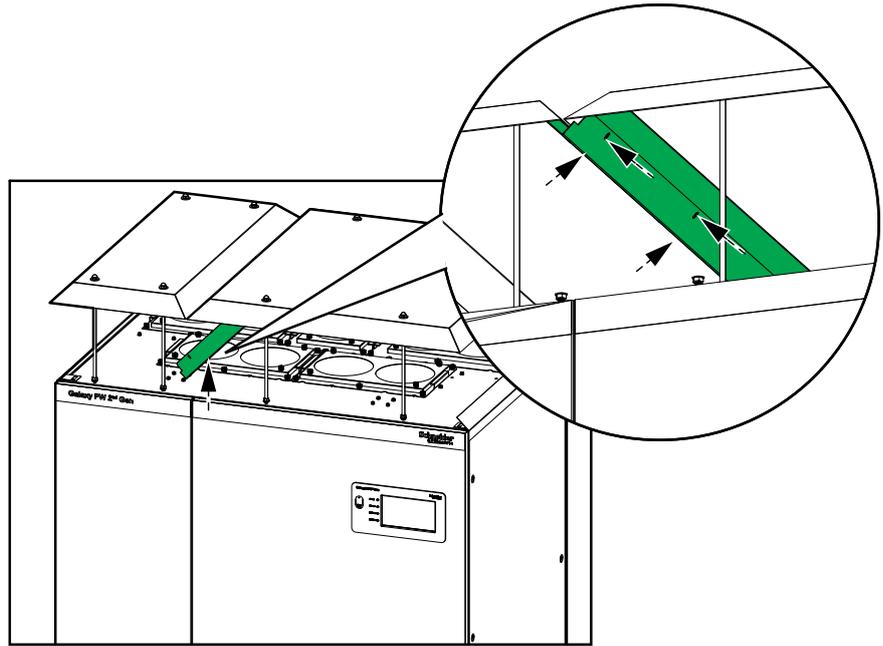
c. Install the provided rods on the UPS.



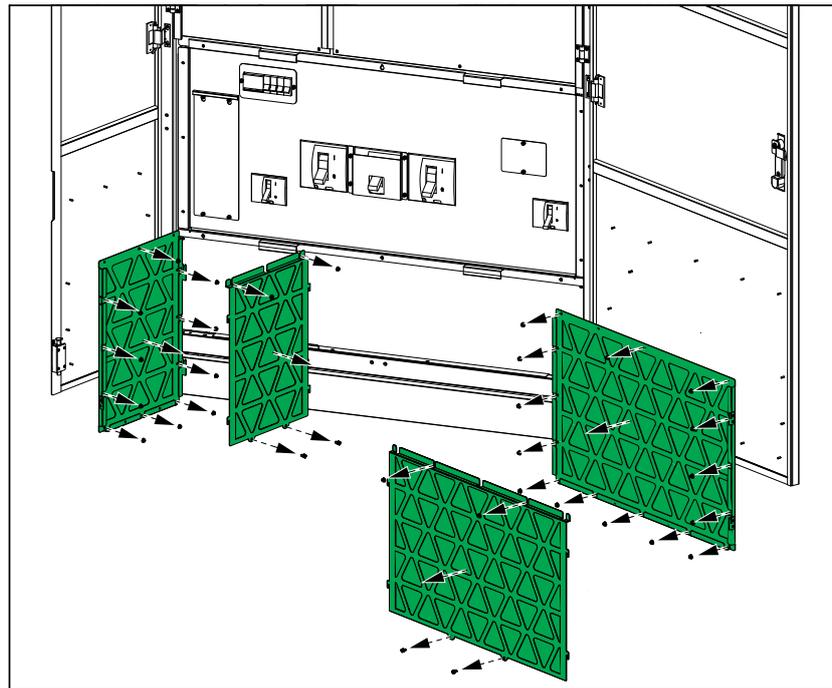
d. Install the top covers on the UPS with the eight provided M8 screws.



- e. Install the gutter between the two top covers and fasten with the six provided M5 screws.

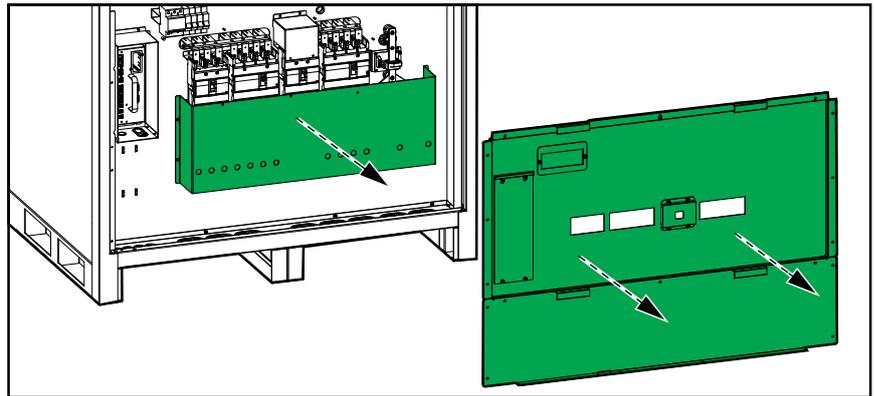


- 2. Install the IP42 front assembly:
  - a. Open the front doors of the UPS.
  - b. Remove the cover plates and the air filters from the front doors. Discard the old air filters and save the screws for reuse.

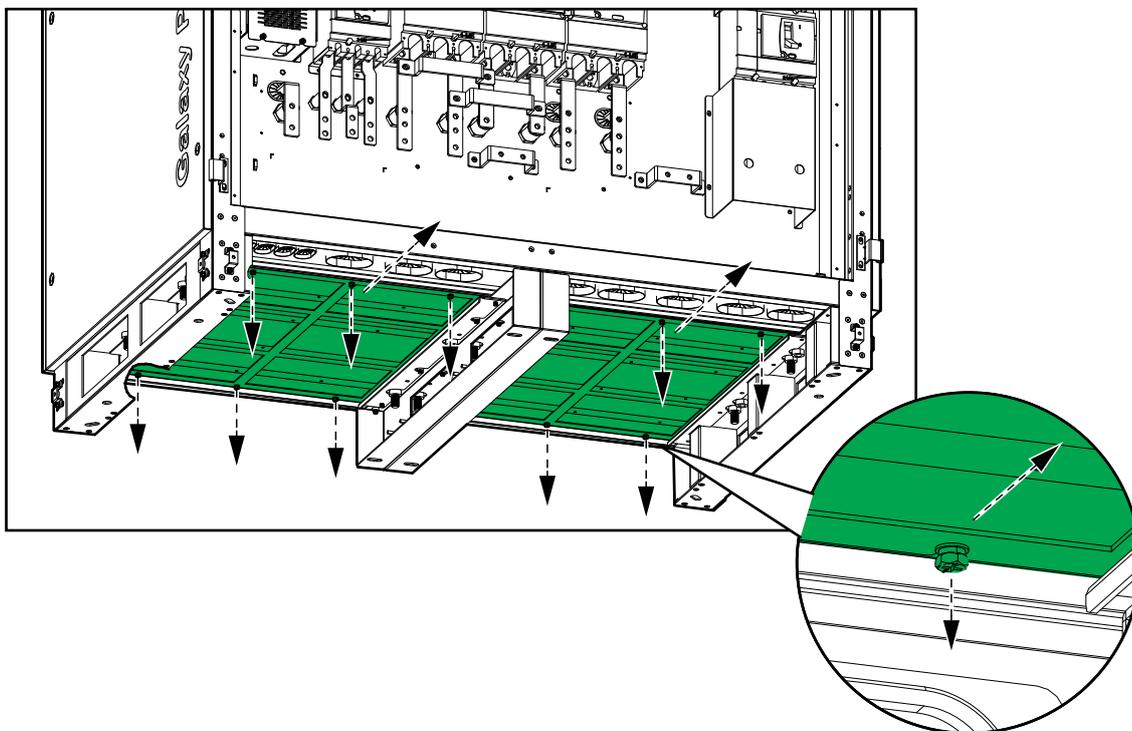


- c. Install the new air filters with the reused screws and reinstall the cover plates on the front doors.

3. Install the IP42 bottom assembly:
  - a. Remove the kick plates. Save all parts for reinstallation.
  - b. Remove the indicated covers. Save all parts for reinstallation.



- c. Remove all cables from all the cable openings in the bottom of the UPS.
- d. Remove the three front screws from the bottom plate and save the screws for reuse. Loosen the three rear screws. Pull the bottom air filters out from towards front. Discard the old bottom air filters.



- e. Install the new bottom air filters with the reused screws.
- f. Reconnect the cables and reinstall the kick plates.

# Install the IP42 Kit on a 1600 mm Wide UPS

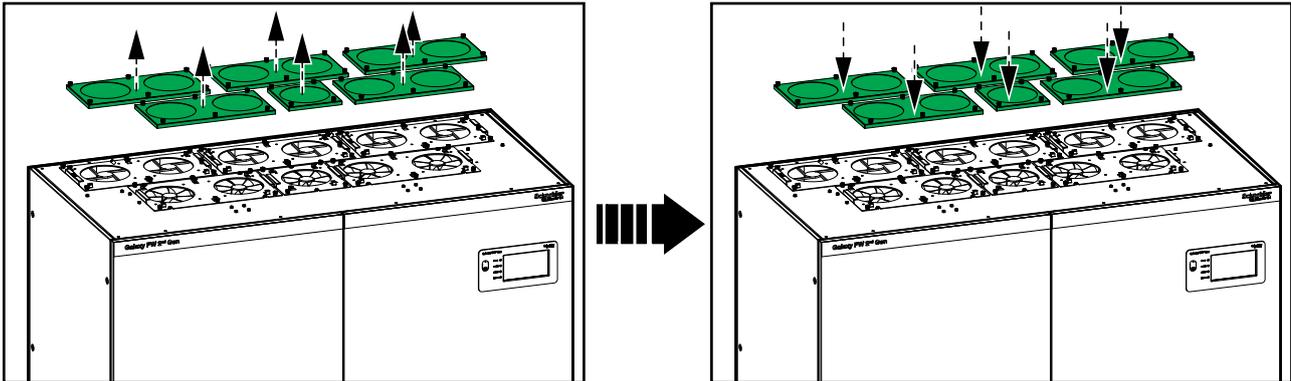
## ⚠ WARNING

### TIPPING HAZARD

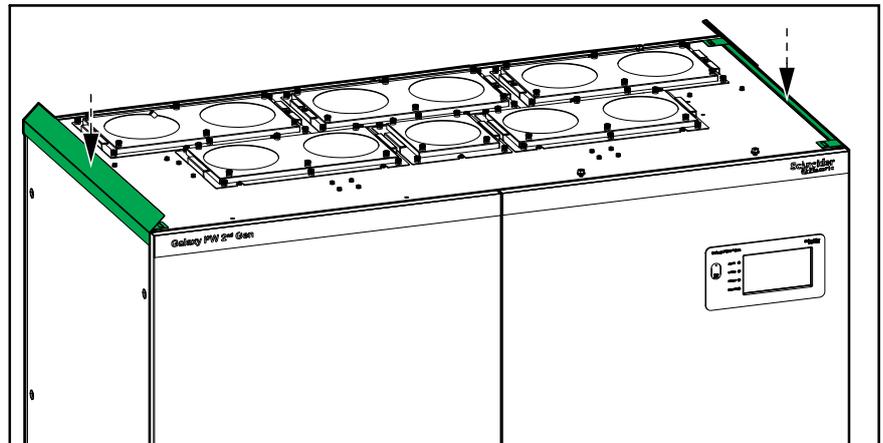
Shut down the UPS system completely before installing the kit.

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

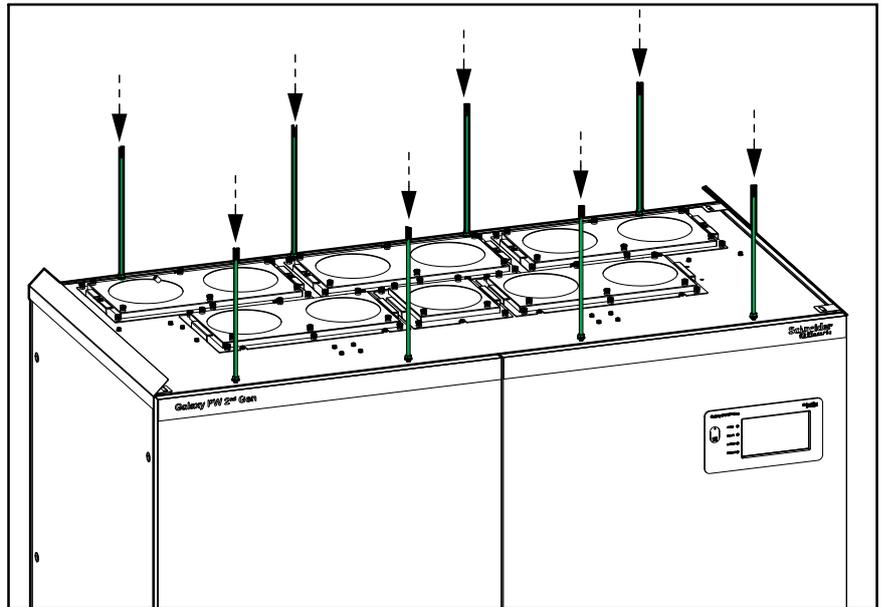
1. Install the IP42 top assembly:
  - a. Remove the existing fan plates. Save the screws for reuse and discard the fan plates. Install the new fan plates with the reused screws.



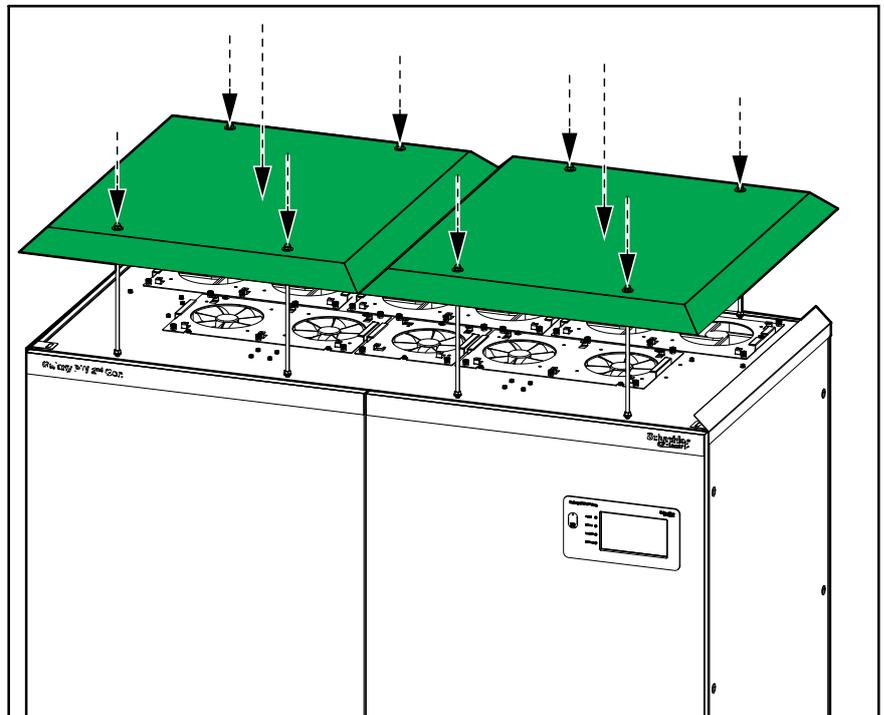
- b. Install the two water guard sheets on the UPS with the four provided M8 screws.



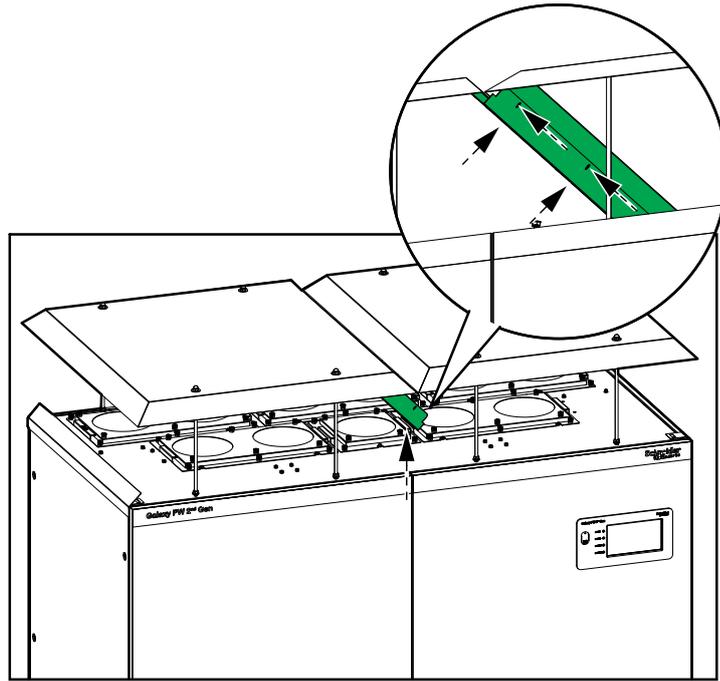
- c. Install the provided rods on the UPS.



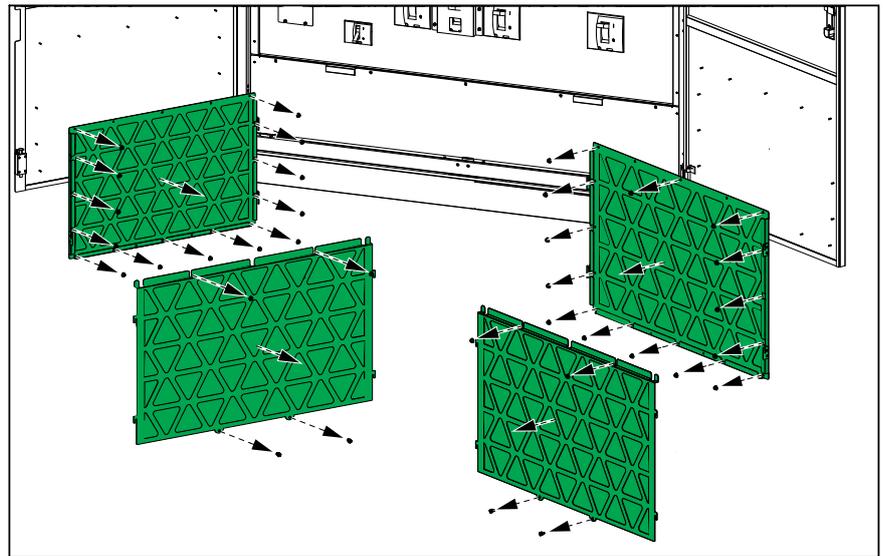
- d. Install the top covers on the UPS with the eight provided M8 screws.



- e. Install the gutter between the two top covers and fasten with the six provided M5 screws.

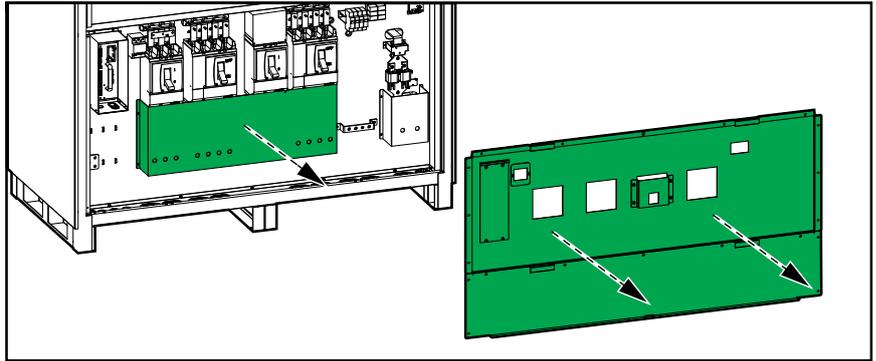


2. Install the IP42 front assembly:
  - a. Open the front doors of the UPS.
  - b. Remove the cover plates and the air filters from the front doors. Discard the old air filters and save the screws for reuse.

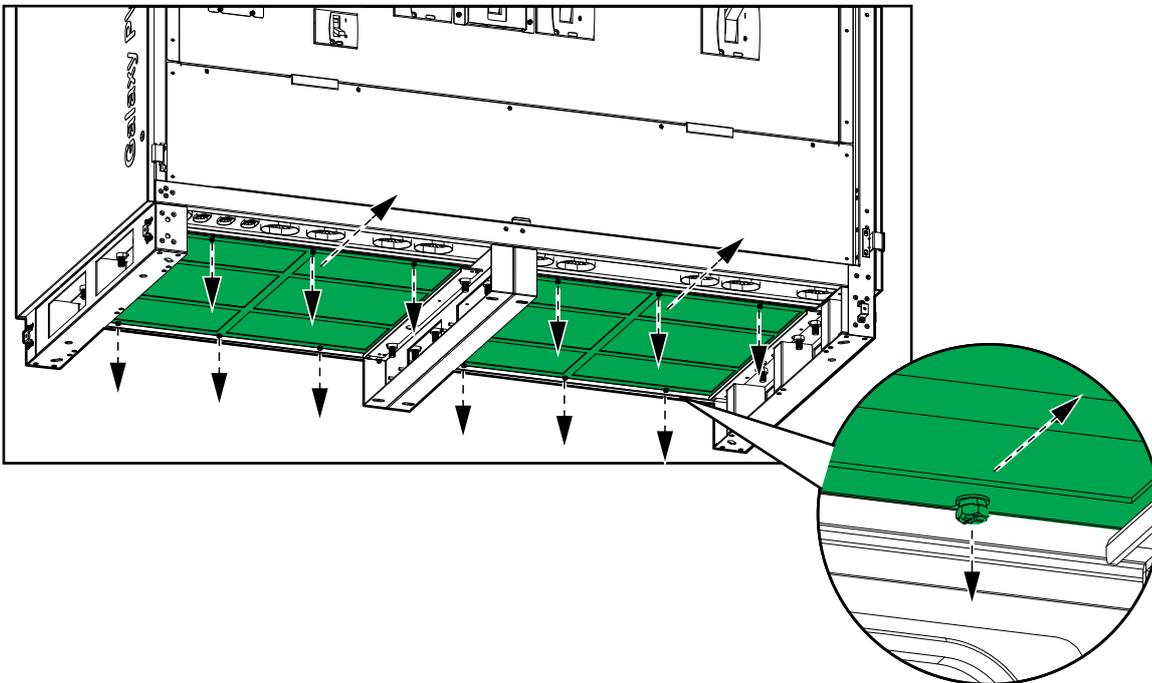


- c. Install the new air filters with the reused screws and reinstall the cover plates on the front doors.

3. Install the IP42 bottom assembly:
  - a. Remove the kick plates. Save all parts for reinstallation.
  - b. Remove the indicated covers. Save all parts for reinstallation.



- c. Remove all cables from all the cable openings in the bottom of the UPS.
- d. Remove the three front screws from the bottom plate and save the screws for reuse. Loosen the three rear screws. Pull the bottom air filters out from towards front. Discard the old bottom air filters.



- e. Install the new bottom air filter with the reused screws.
- f. Reconnect the cables and reinstall the kick plates.





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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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