Installation Guide Smart-UPS™ RT
External Battery Module SRTG192XLBP / BP1

Important Safety Information

Read the instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this document 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 either 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 messages that follow 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.

⚠ WARNING

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

⚠ CAUTION

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

NOTICE

NOTICE is used to address practices not related to physical injury.

Product Handling Guidelines













Safety and General Information

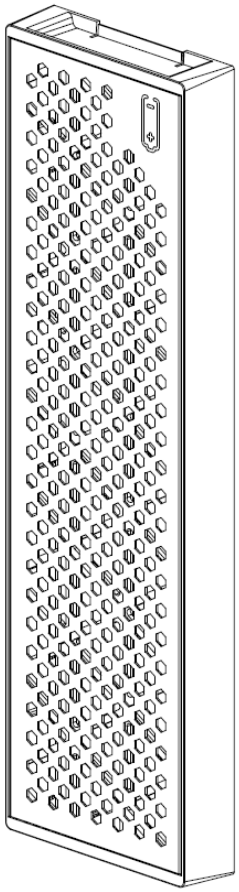
- Adhere to all national and local electrical codes.
- Changes and modifications to this unit not expressly approved by APC could void the warranty.
- This unit is intended only for indoor use in a controlled environment.
- Do not operate this unit in direct sunlight, in contact with fluids, or where there is excessive dust or humidity.
- Be sure the air vents on the unit are not blocked. Allow adequate space for proper ventilation.
- Before installing or replacing the batteries, remove jewelry such as wristwatches and rings. High, short circuit current through conductive materials could cause severe burns.
- The battery typically lasts for two to five years. Environmental factors impact battery life.
- Elevated ambient temperatures, poor quality mains power, and frequent short duration discharges will shorten battery life.
- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- The batteries are heavy. Remove the batteries before installing the UPS and external battery modules in a rack.
- Always install XLBPs at the bottom in rack-mount configurations. The UPS must be installed above the XLBPs.
- Do not dispose of batteries by burning them. The batteries may explode.
- Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes, and may be toxic.
- Always recycle used batteries.
- Recycle the package materials or save them for reuse.
- Additional safety information can be found in the Safety Guide supplied with this unit.

Package Contents

Inspect the contents upon receipt. Notify the carrier and dealer if there is damage.

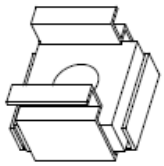
Included with all models

Front bezel



（x1）

M5 Floating nut for fixing the battery case to the rack



（x4）

M4x6 flat head screws for fixing ears



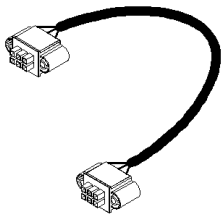
（x4）

M5x12 Phillips flat head screw for fixing the XLBP to the rack-mount



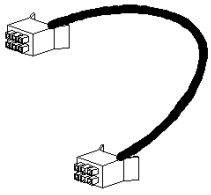
（x4）

Battery wire 0.64m SRTG192XLBP



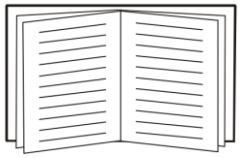
（x1）

SRTG192XLBP1



（x1）

Installation manual



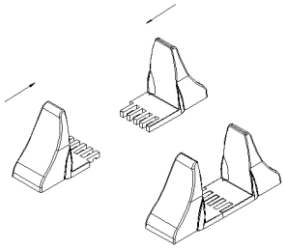
（x1）

Packing list



（x1）

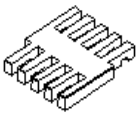
Stabilizer bracket



（x2 pairs）

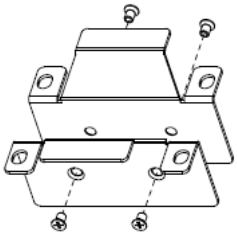
SRTG192XLBP

Stabilizer bracket connectors



（x4）

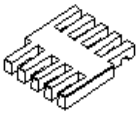
Rack-mount brackets



（x1pair）

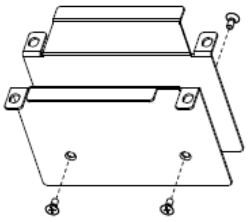
SRTG192XLBP1

Stabilizer bracket connectors



（x6）

Rack-mount brackets



（x1pair）

Specifications

For additional specifications, refer to the APC web site at www.apc.com.

Environmental

Temperature	**Operating**	0 °to 40 °C (32 °to 104 °F)
	Storage	-15 °to 45 °C (5 °to 113 °F)
Maximum Elevation	**Operating**	0 - 2,000 m (0 - 10,000 ft.)
	Storage	0 - 15,000 m (50,000 ft.)
Humidity	0% to 95% relative humidity, non-condensing	
Protection Class	IP 20	

Note: Charge the battery modules every six months during storage.
Environmental factors impact battery life. Elevated ambient temperatures, high humidity, poor quality mains power, and frequent short duration discharges will shorten battery life.

Physical

The XLBP is heavy. Follow all lifting guidelines.

XLBP model	SRTG192XLBP	SRTG192XLBP1
Unit weight batteries included, without packaging	39.4kg	63.2kg
Unit weight batteries included, with packaging	43.5kg	70.0kg
Unit dimensions without packaging Height x Width x Depth	86.5mm x 440mm x 620mm 3.4in. x 17.3in. x 24.4in.	131mm x 440mm x 620mm 5.1in. x 17.3 n. x 24.4in.
Unit dimensions with packaging Height x Width x Depth	184mmx590mmx790mm 7.2in.x 23.2in.x 31.1in.	255mm x 613mm x 813mm 10.0in x 24.1in. x 32.0in.

The model and serial numbers are on a small label located on the rear panel.

Battery

UPS model	SRTG5KXLI SRTG6KXLI	SRTG8KXLI SRTG10KXLI
XLBP model	SRTG192XLBP	SRTG192XLBP1
Replacement battery module This UPS has replaceable battery modules. Refer to the appropriate replacement battery user manual for installation instructions. Contact your dealer or go the APC web site, www.apc.com for information on replacement batteries.	APCRBC170	APCRBC171
Total Voltage of battery pack for UPS **Ah rating**	±96 VDC 5Ah	±96 VDC 9Ah
Battery type	Maintenance free, leak proof, sealed, lead acid	
Number of battery modules	4 battery modules	4 battery modules
XLBP/XLBP1 wire length	0.64m	

UPS	**XLBP**	**RBC**
SRTG5KXLI SRTG6KXLI	SRTG192XLBP	APCRBC170
SRTG8KXLI SRTG10KXLI	SRTG192XLBP1	APCRBC171

Remove Battery Modules

⚠ CAUTION

DAMAGE TO EQUIPMENT OR PERSONNEL

- Each battery module weighs :SRTG192XLBP:14.5kg & SRTG192XLBP1:25.1kg.
- Always practice safe lifting techniques adequate for the weight of the equipment.
- Remove the battery modules before installing the SRTG192XLBP/ SRTG192XLBP1.
- Use the battery module handle to carefully slide the battery modules in or out of the SRTG192XLBP/ SRTG192XLBP1.
- Do not use the battery module handle to lift or carry the battery module.

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

⚠ CAUTION

HYDROGEN SULPHIDE GAS AND EXCESSIVE SMOKE

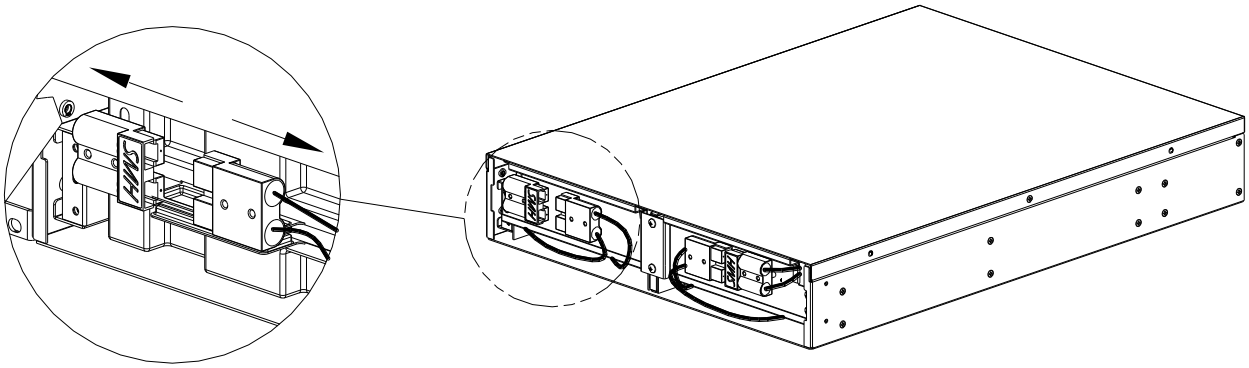
- Replace the battery at least every 5 years.
- Replace the battery immediately when the UPS indicates battery replacement is necessary.
- Replace battery at the end of its service life.
- Replace batteries with the same number and type of batteries as originally installed in the equipment.
- Replace the battery immediately when the UPS indicates a battery over-temperature condition, or UPS internal over-temperature, or when there is evidence of electrolyte leakage. Power off the UPS, unplug it from the AC input, and disconnect the batteries. Do not operate the UPS until the batteries have been replaced.
- *Replace all battery modules (including the modules in External Battery Packs) which are older than one year, when installing additional battery packs or replacing the battery module(s).

Failure to follow these instructions can result in injury.

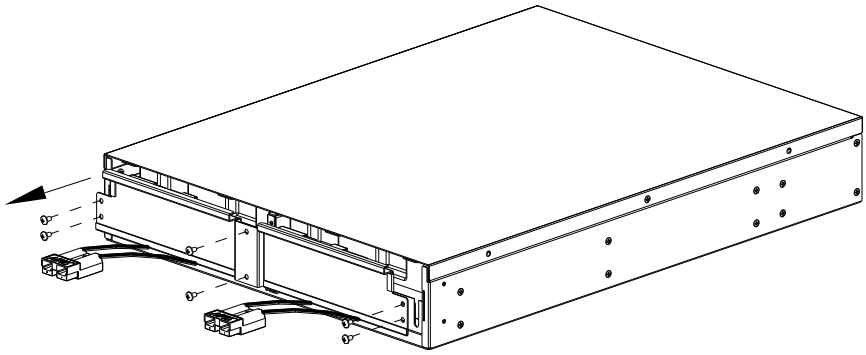
* Contact APC by Schneider Electric Worldwide Customer Support to determine the age of the installed battery modules.

SRTG192XLBP

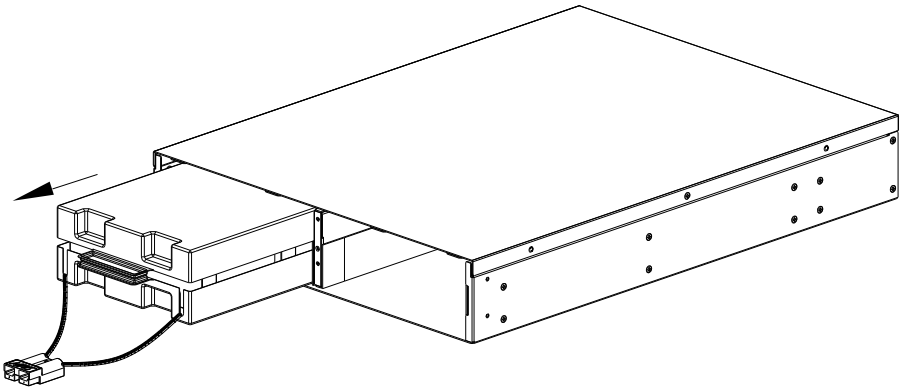
❶ Disconnect battery modules wires.



❷ Remove the screw and the battery door.

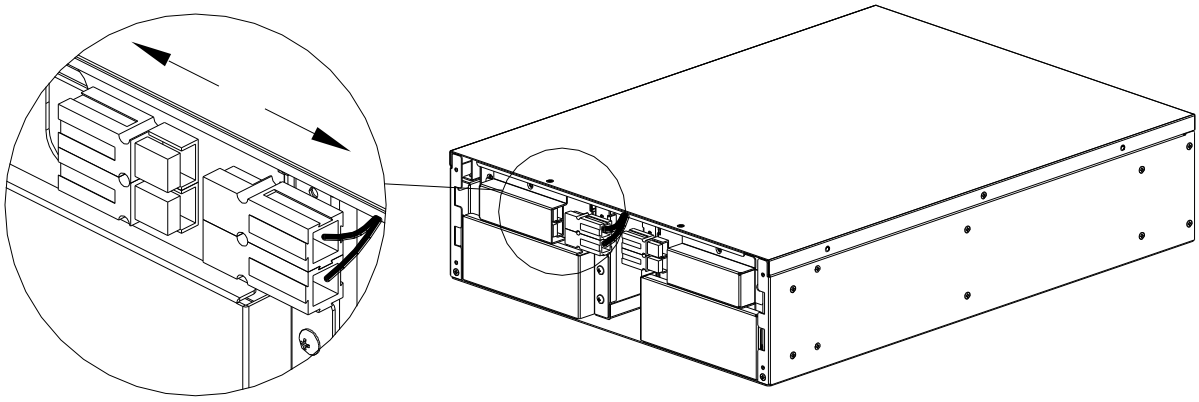


❸ Remove battery modules.

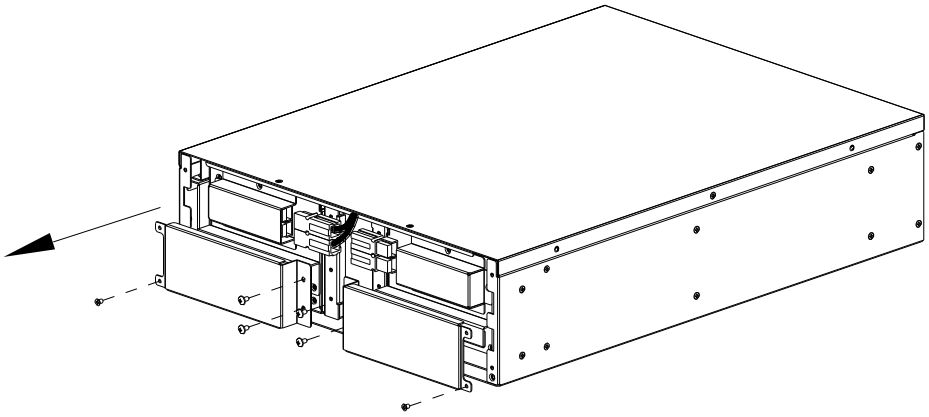


SRTG192XLBP1

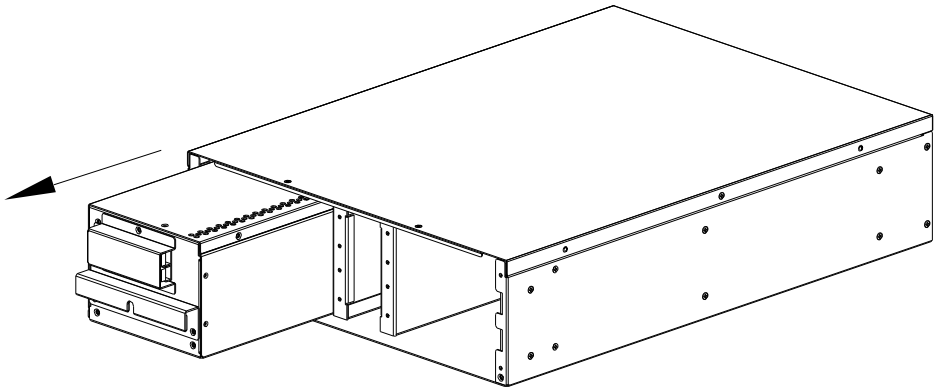
❶ Disconnect the battery input wires.



❷ Remove the screw and battery door.



❸ Remove battery modules.



Rack-Mount Installation

Your UPS model may differ in appearance from those depicted in these graphics. The SRTG192XLBP/ SRTG192XLBP1 installation process is identical for all models.
Refer to the rail kit Installation Guide for instructions on rail installation.

⚠ CAUTION

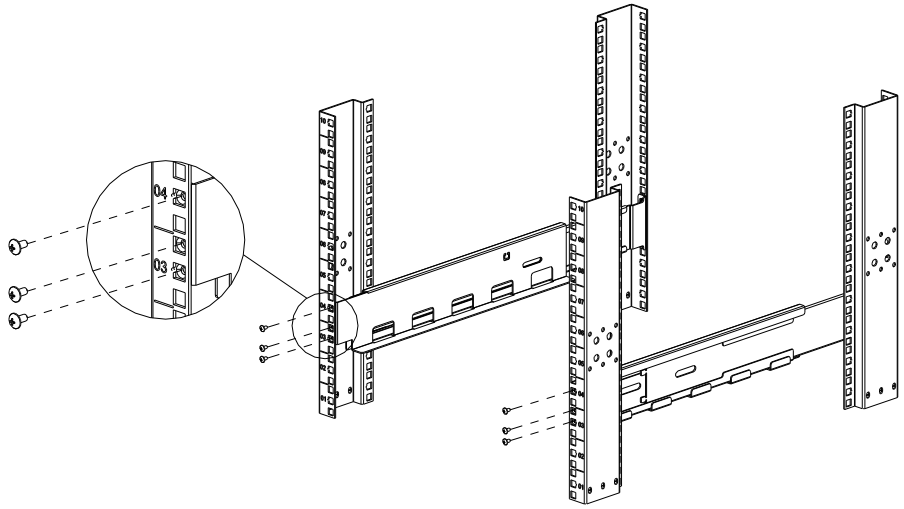
DAMAGE TO EQUIPMENT OR PERSONNEL

- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- Always use the recommended number of screws to secure brackets to the XLBP.
- Always use the recommended number of screws and cage nuts to secure XLBP to the rack.
- Always install the XLBP at the bottom of the rack.
- Always install the XLBP below the UPS in the rack.
- Use the battery module handle to slide the battery modules in or out of the XLBP.
- Do not use the battery module handle to lift or carry the battery module.

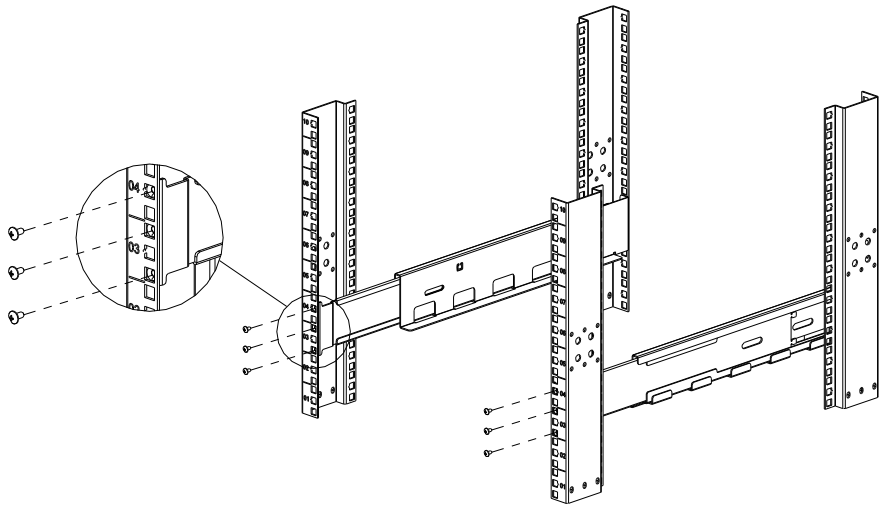
Failure to follow these instructions can result in equipment damage and minor or moderate injury.

Install the SRTG192XLBP

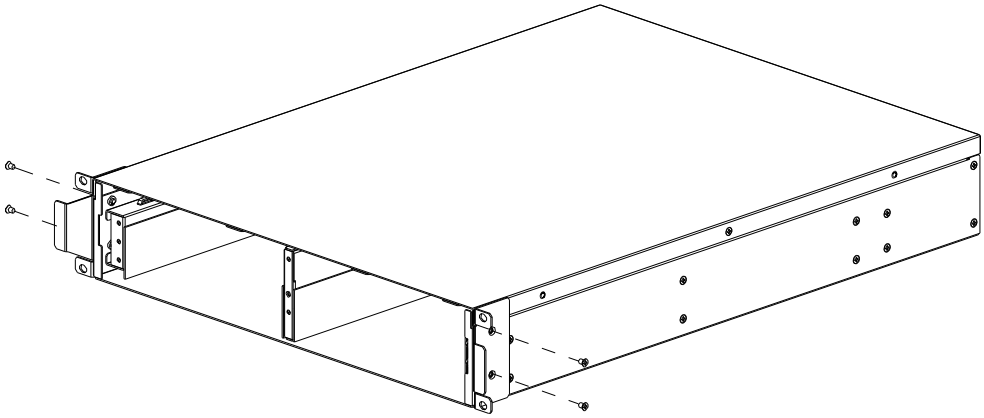
❶ Fix the front of rail with 6 M5x12 screws.



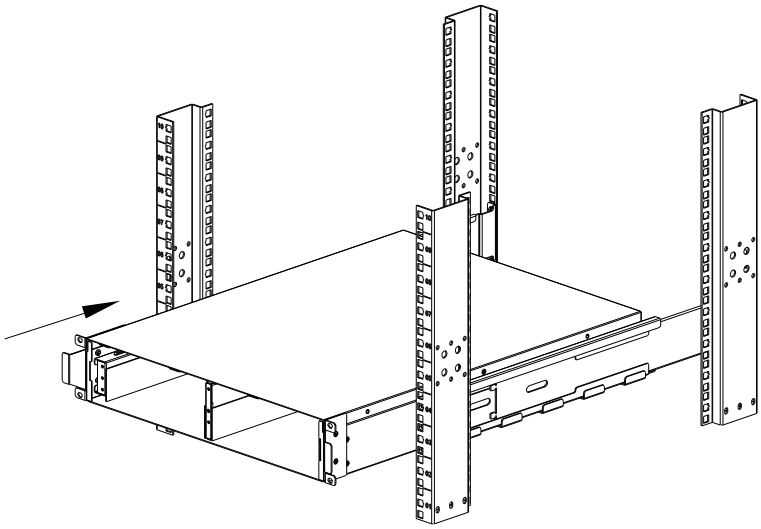
❷ Fix the back of rail with 6 M5x12 screws.



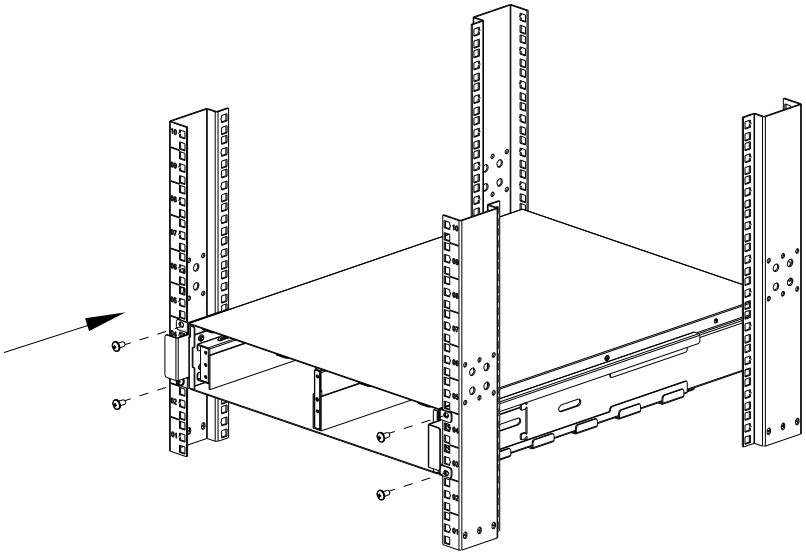
❸ Secure brackets with 4 M4x6 screws.



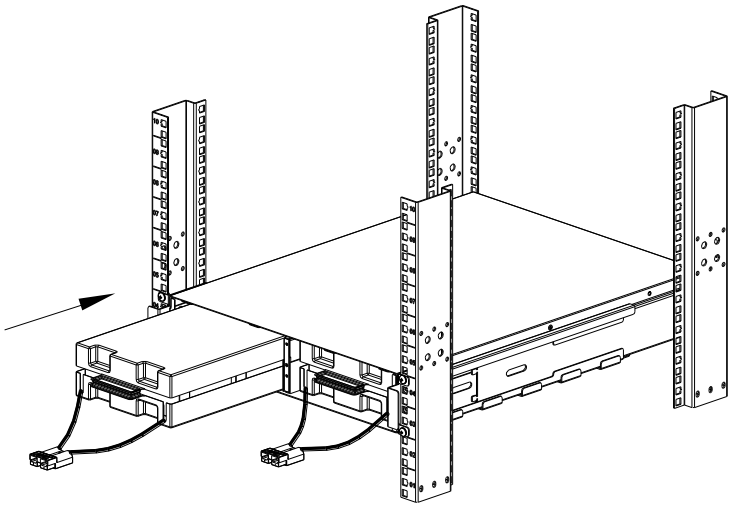
❹ Put the battery pack on the rail.



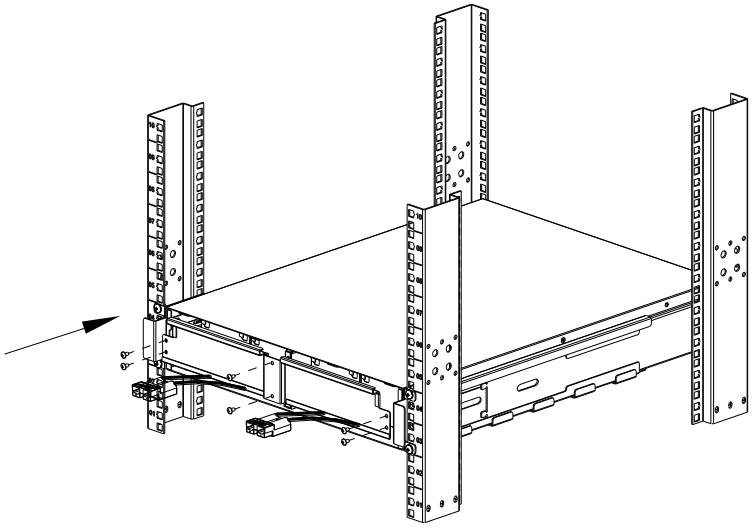
❺ Secure brackets to pillar with 4 screws.



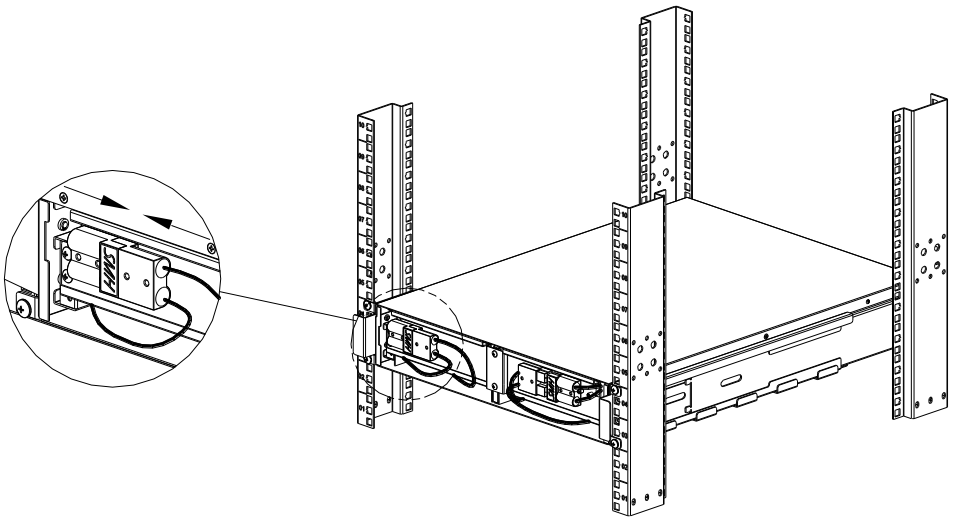
❻ Put two battery modules in the battery pack.



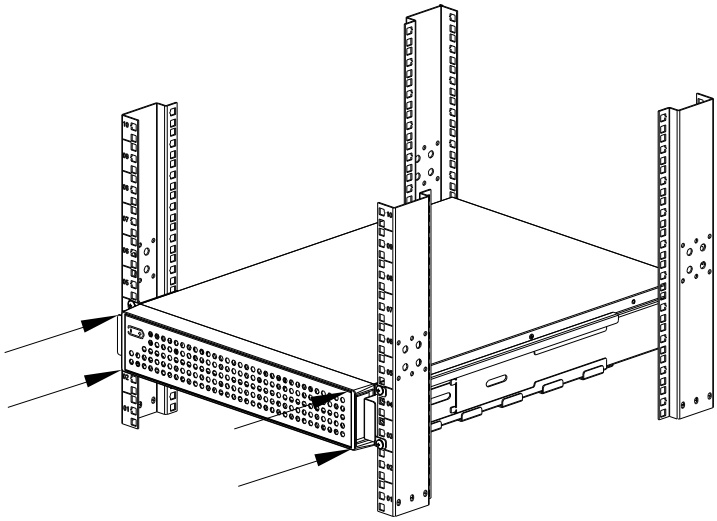
❼ Secure the battery door with 6 screws.



❽ Connect battery modules wires.

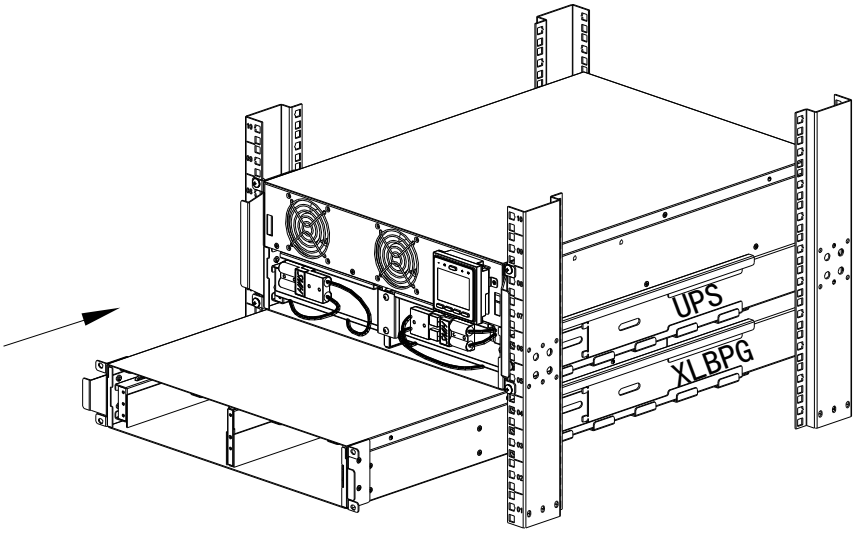


❾ Install the front bezel.

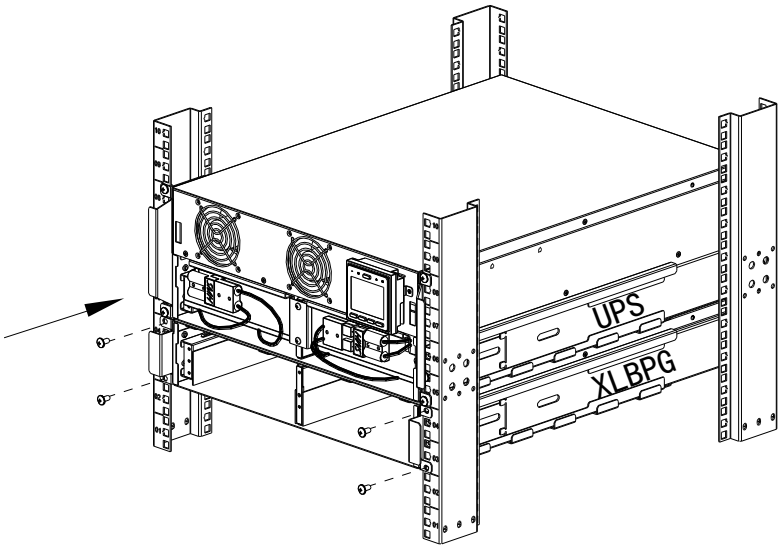


UPS models SRTG5K/SRTG6K XLI with XLBP

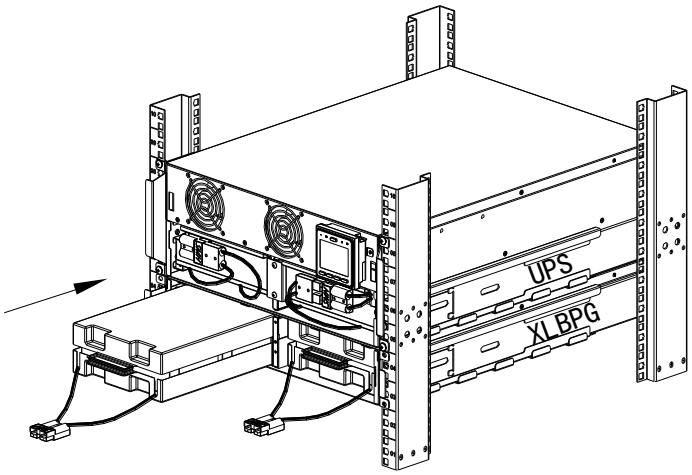
❶ Put the battery pack on the rail.



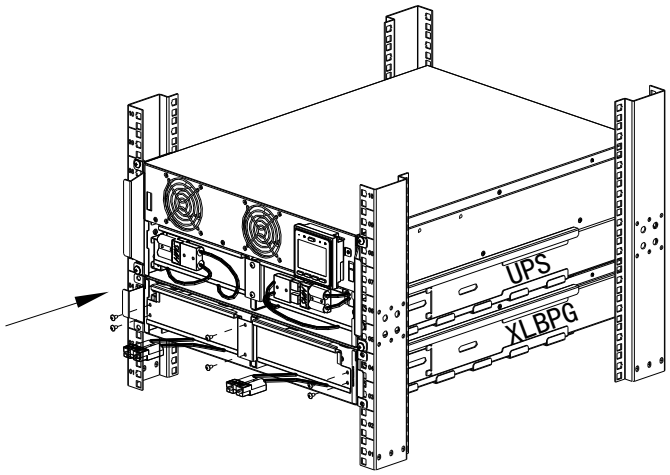
❷ Secure brackets to pillar with 4 screws.



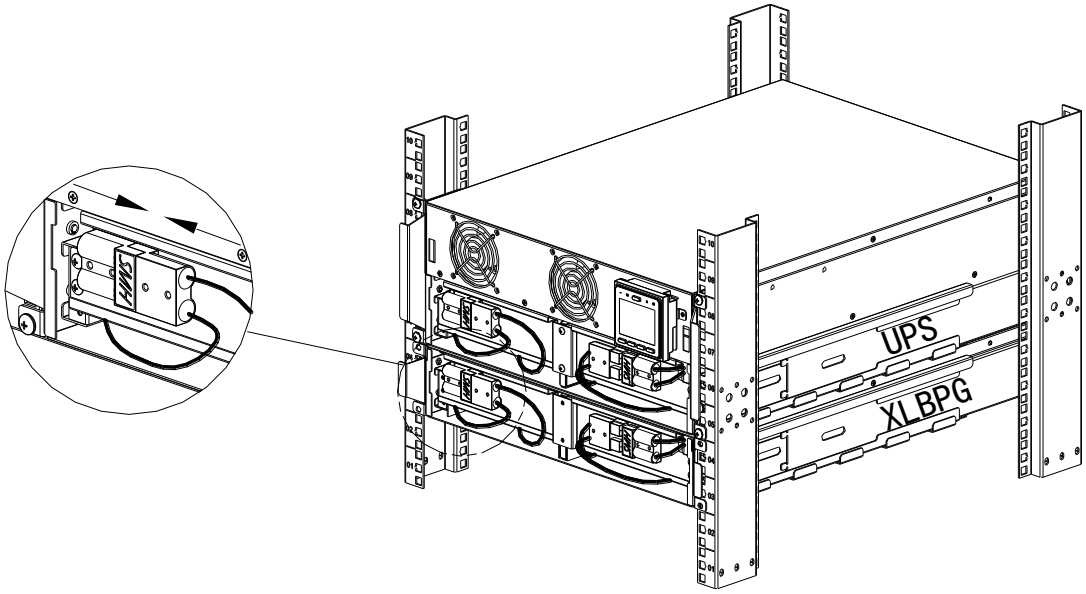
❸ Put two battery modules in the battery pack.



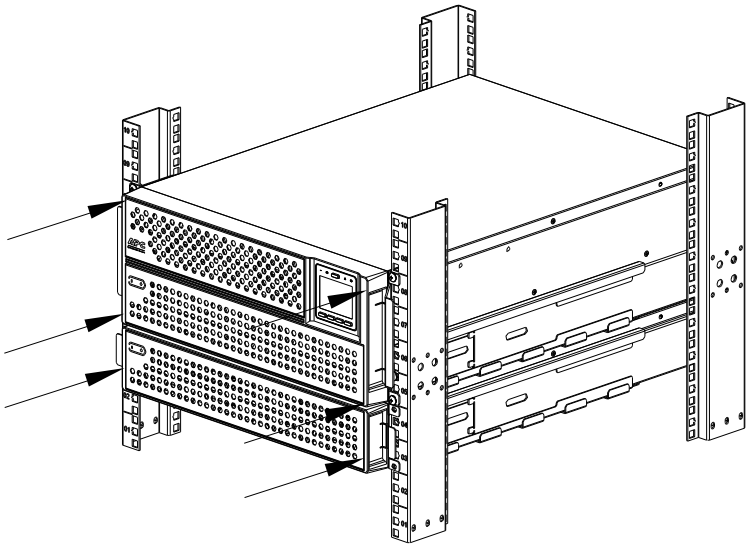
❹ Secure the battery door with 6 screws.



❺ Connect battery modules wires.

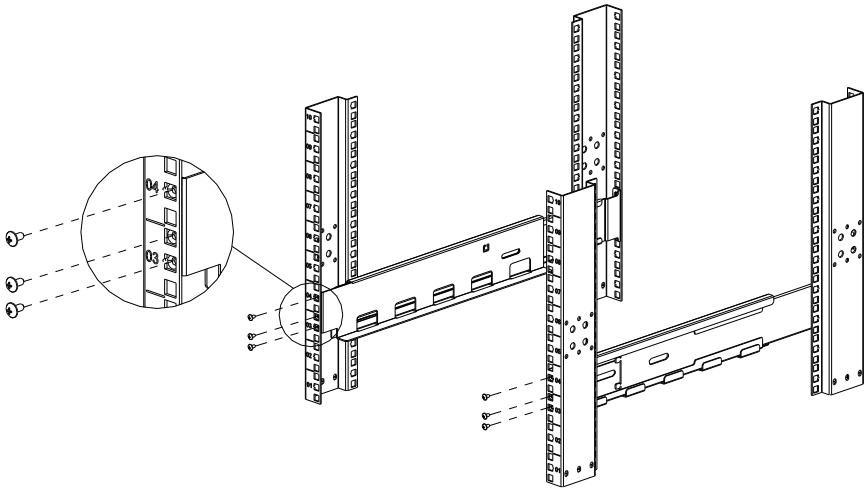


❻ Install XLBP front bezel and UPS front bezel.

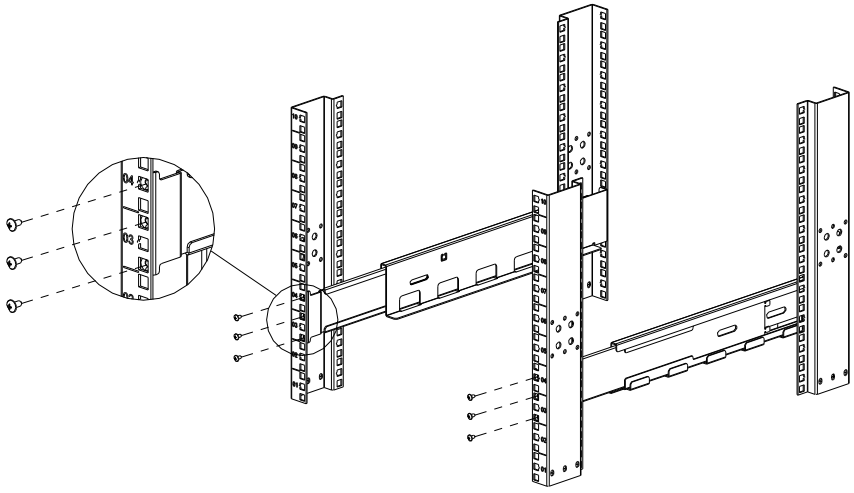


Install the SRTG192XLBP1

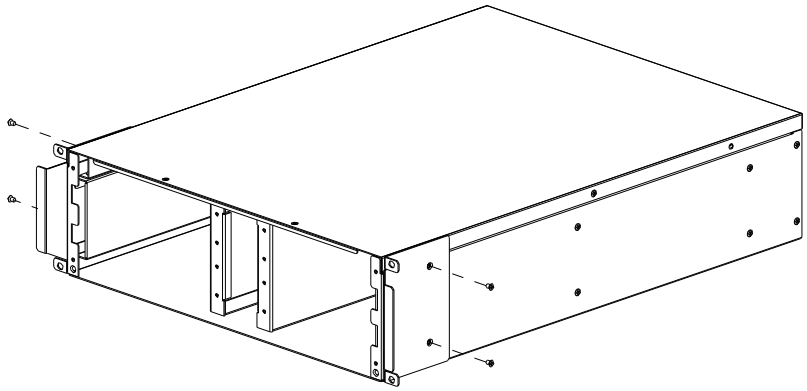
❶ Fix the front of rail with 6 M5x12 screws.



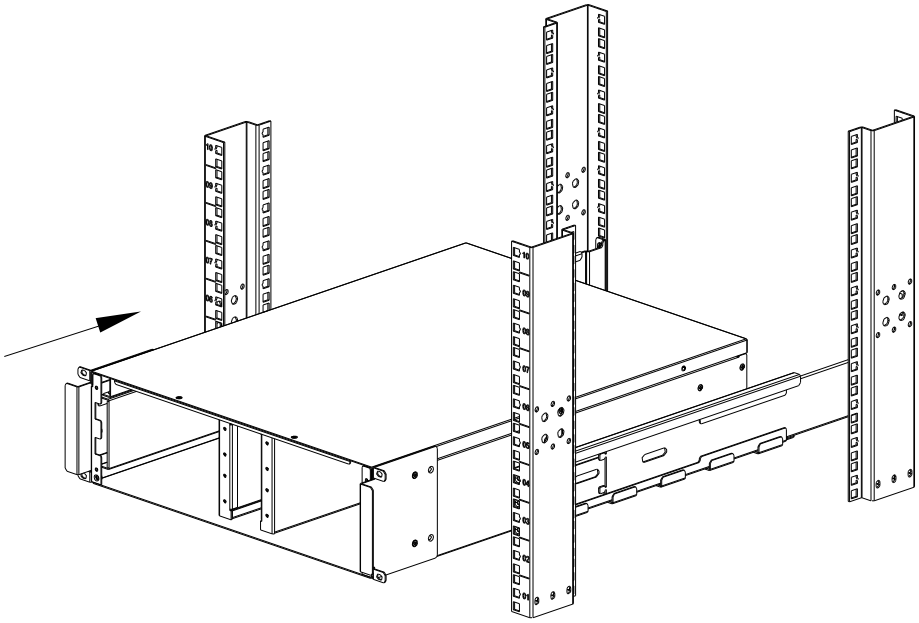
❷ Fix the back of rail with 6 M5x12 screws.



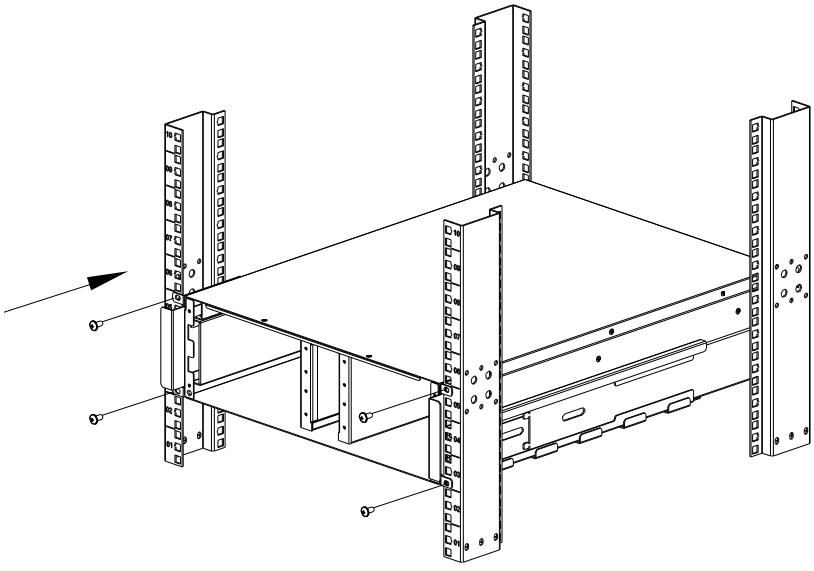
❸ Secure brackets with 4 M4x6 screws.



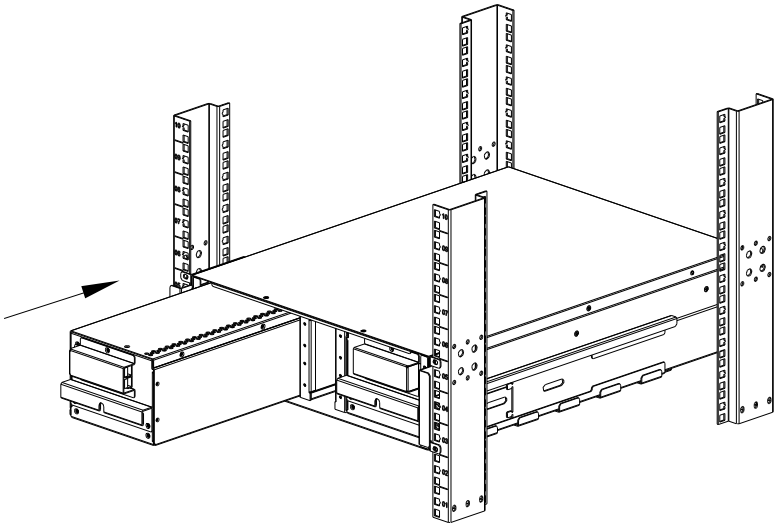
❹ Put the battery pack on the rail.



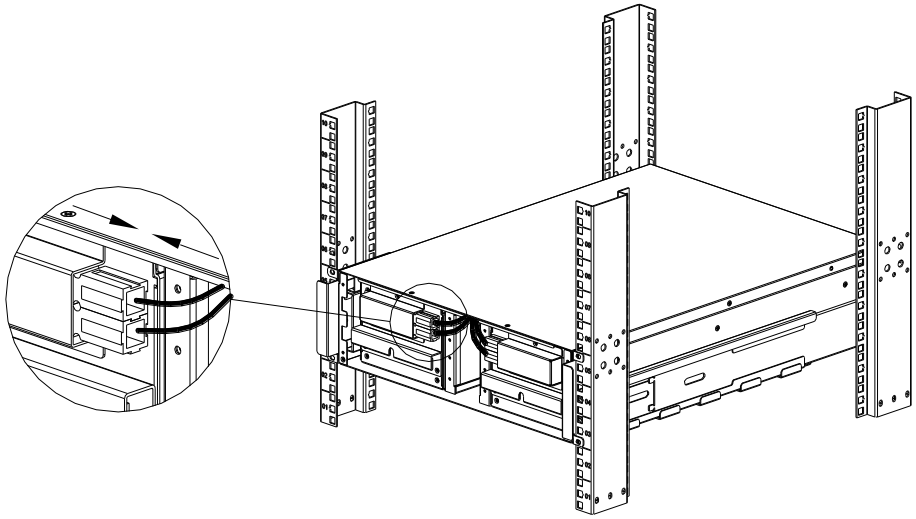
❺ Secure the brackets to the pillar with 4 screws.



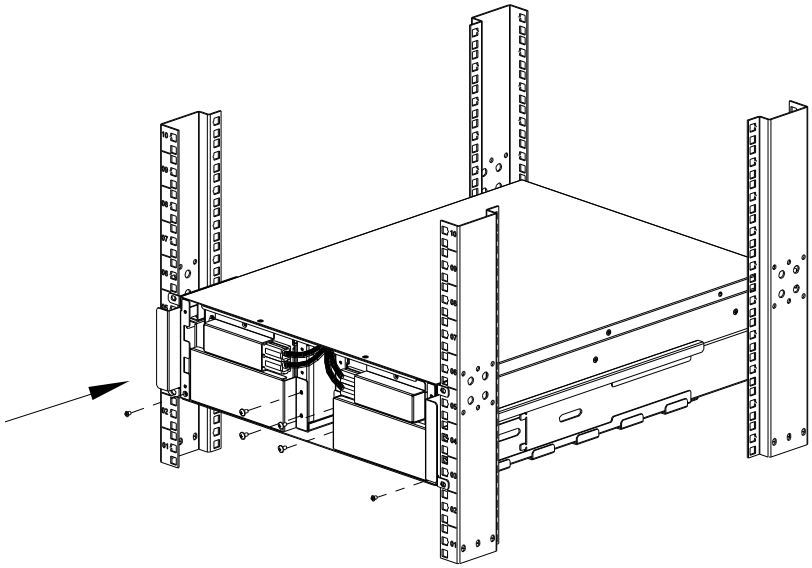
❻ Put two battery modules in the battery pack.



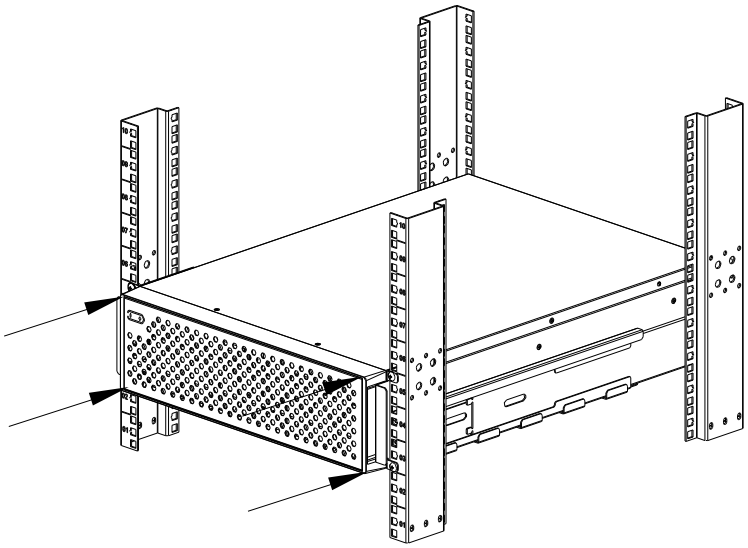
❼ Connect battery modules wires.



❽ Secure the battery door with 6 screws.



❾ Install the front bezel.



Tower Installation

⚠ CAUTION

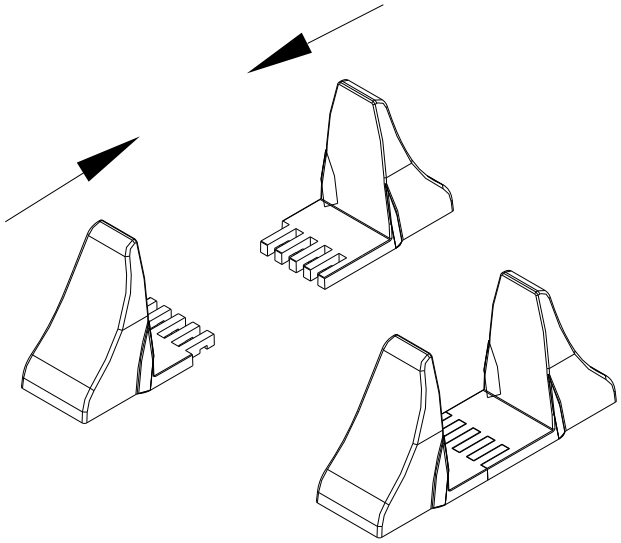
DAMAGE TO EQUIPMENT OR PERSONNEL

- Prior to installing the tie brackets, select a location sturdy enough for the combined weight of the units.
- Do not move the units once the tie brackets are installed.
- Always install stabilizer brackets when an XLBP and UPS model SRTG5K/6KXLI are installed together in tower configuration.
- Always install stabilizer brackets when an XLBP is installed in tower configuration and not secured to a UPS.

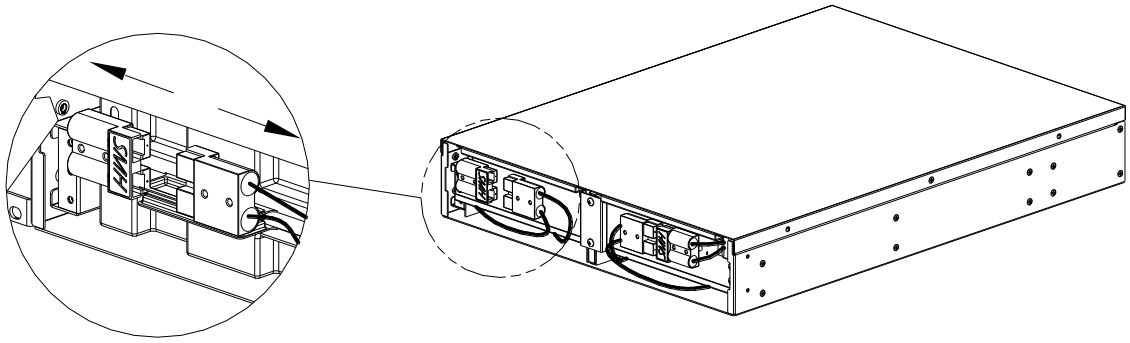
Failure to follow these instructions can result in equipment damage and minor or moderate injury.

SRTG192XLBP

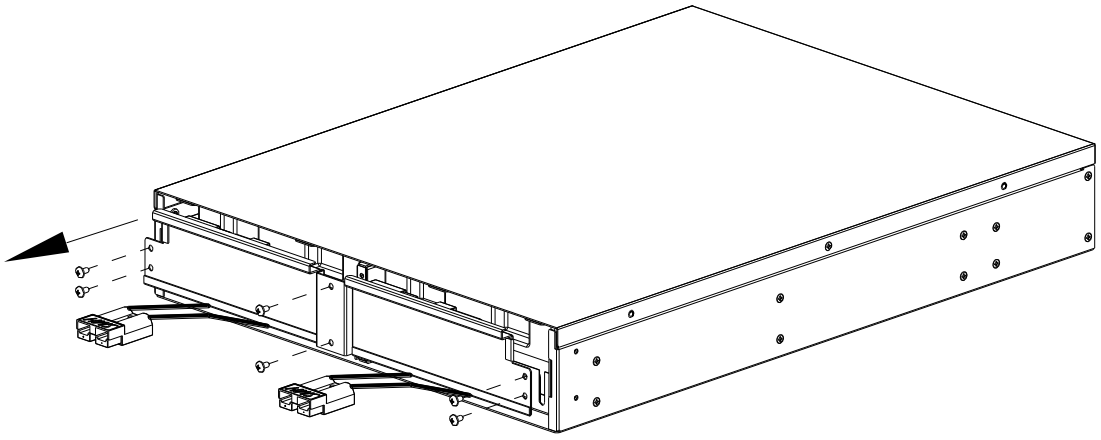
❶ Assemble stabilizer bracket.



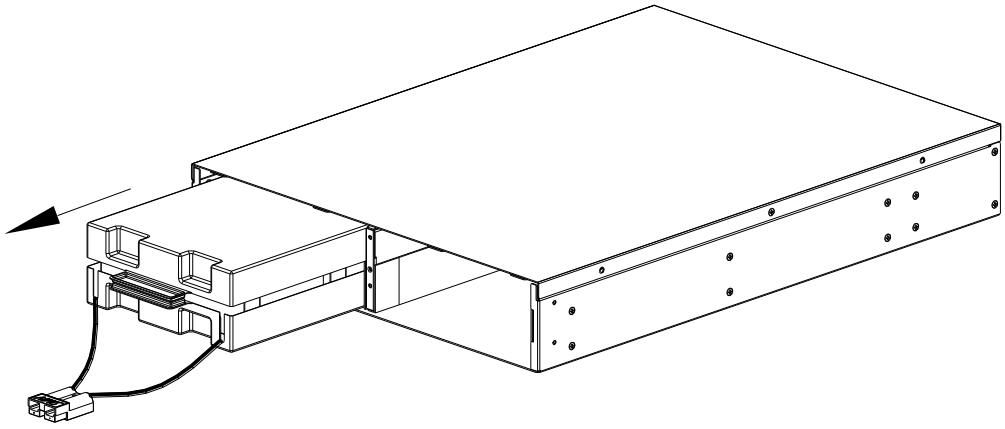
❷ Disconnect battery modules wires.



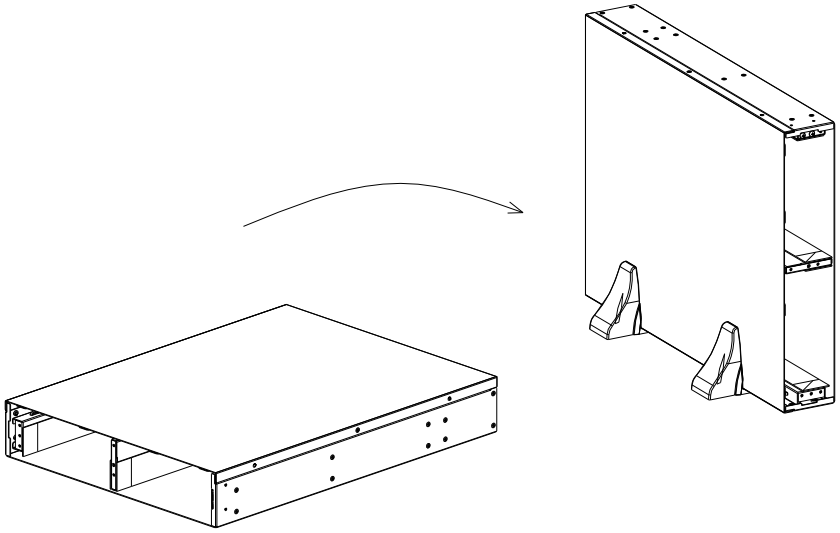
❸ Remove the screw and battery door.



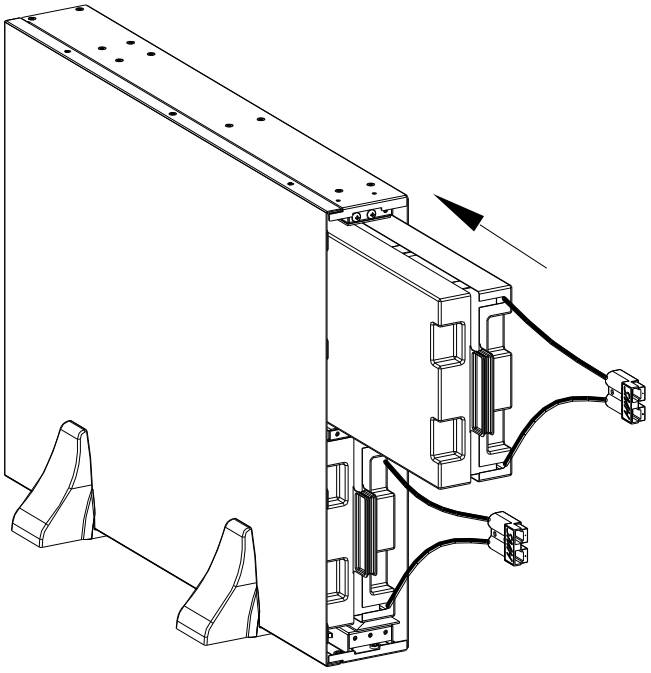
❹ Remove battery modules.



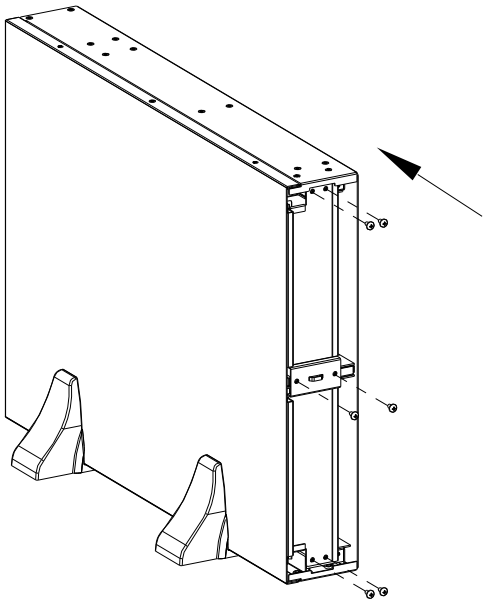
❺ Make the battery pack standing.



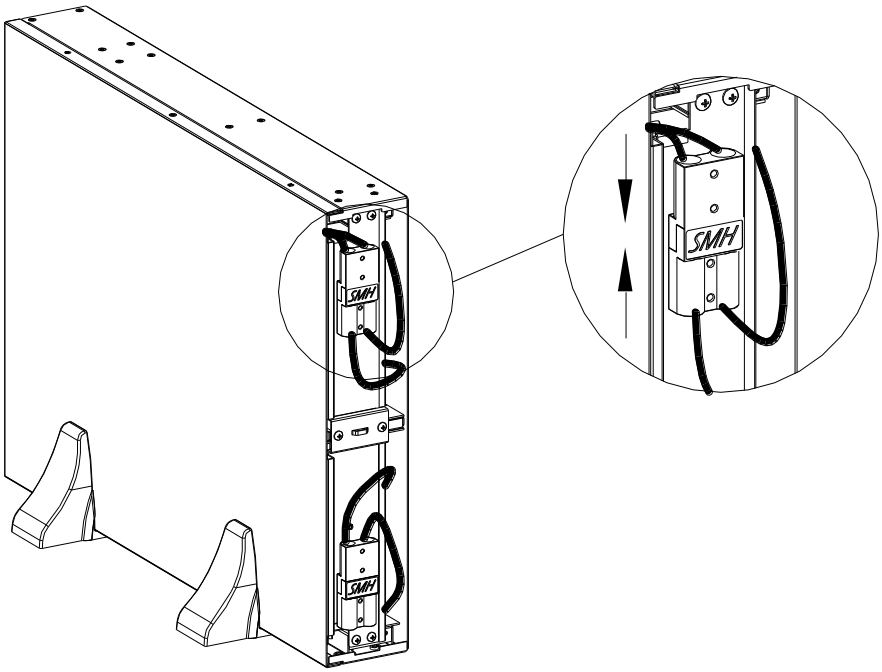
❻ Put 2 battery modules into battery pack.



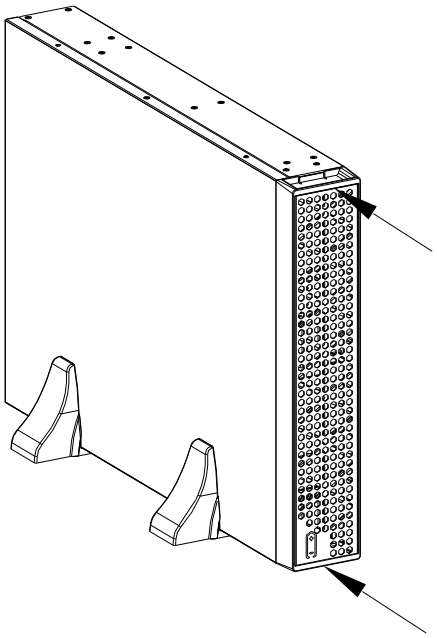
❼ Secure the battery door.



❽ Connect battery modules wires.

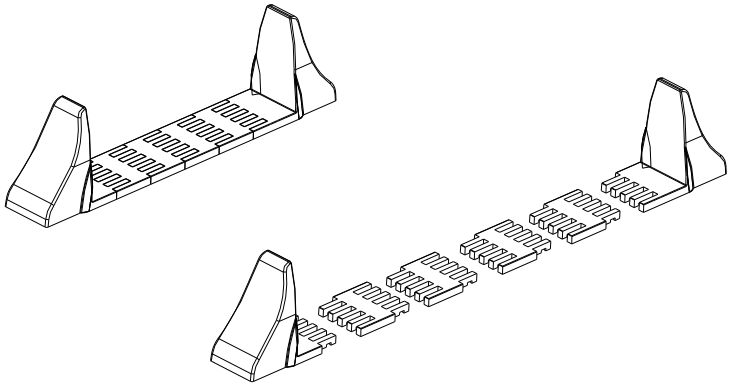


❾ Install the front bezel.



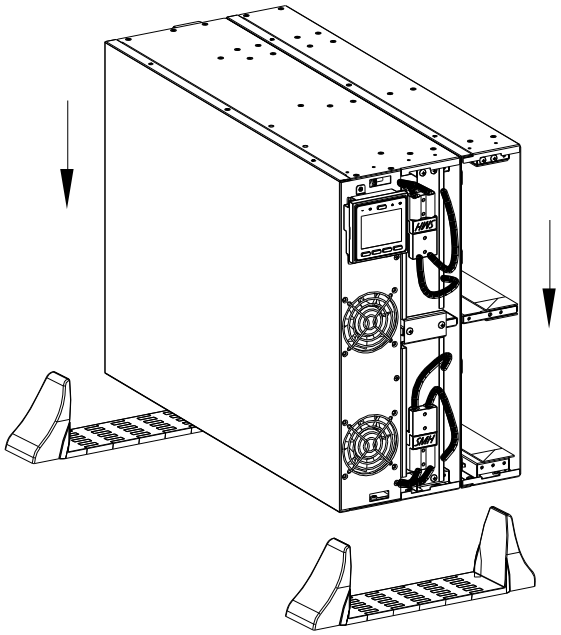
UPS models SRTG5K/SRTG6K XLI with XLBP

❶ Assemble stabilizer bracket.

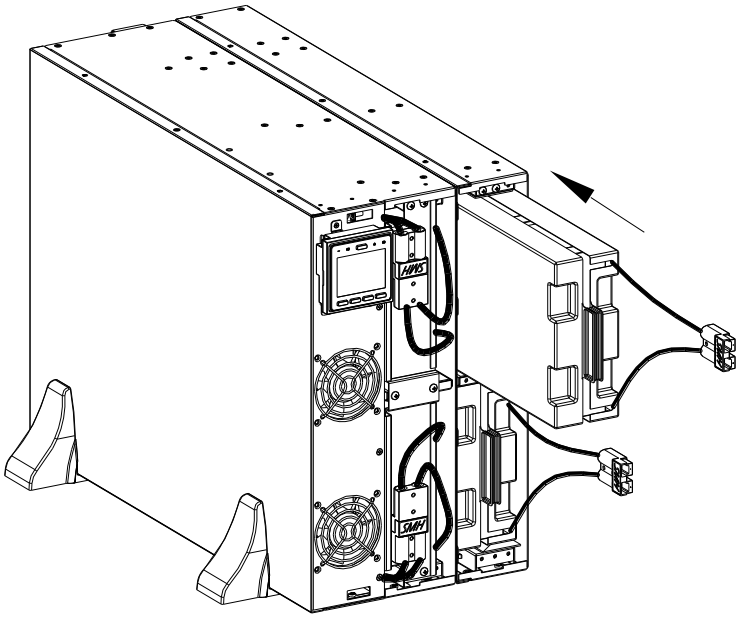


❷ Mount the UPS and XLBP to the stabilizer bracket.

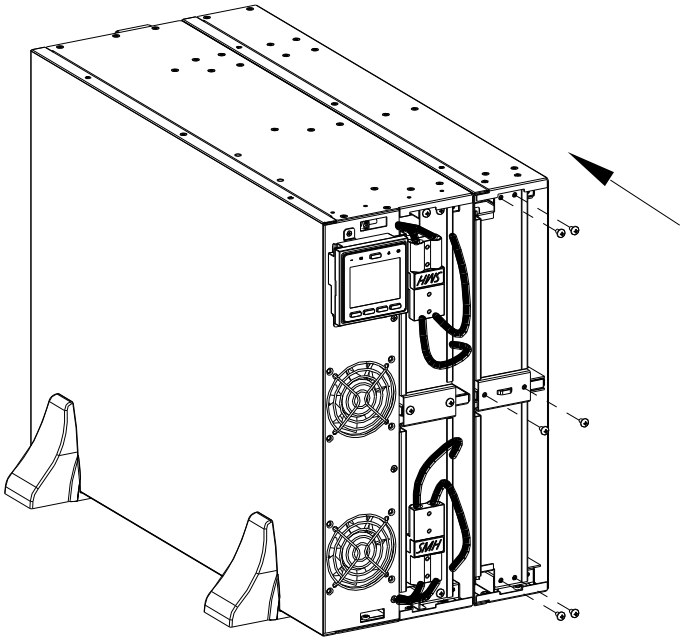
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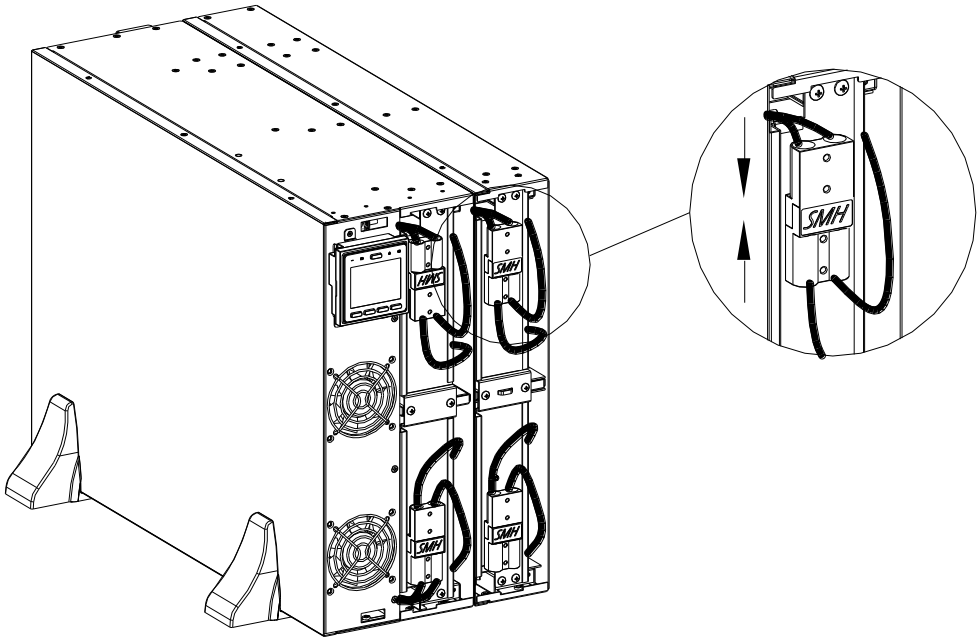
❸ Put 2 battery modules into battery pack.



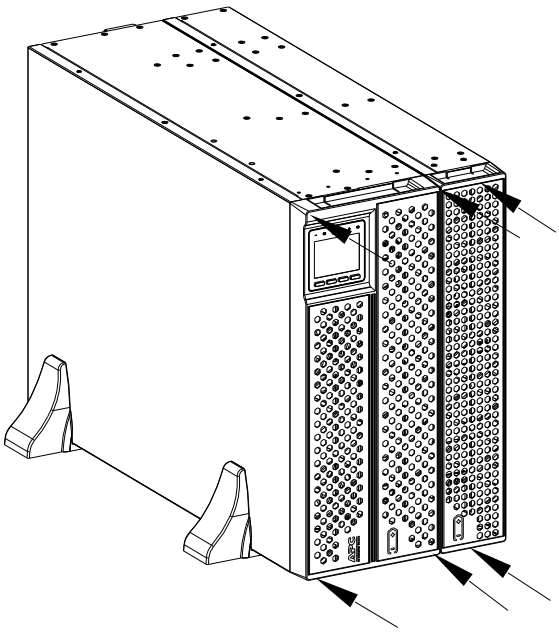
❹ Secure the battery door.



❺ Connect the battery modules wires.

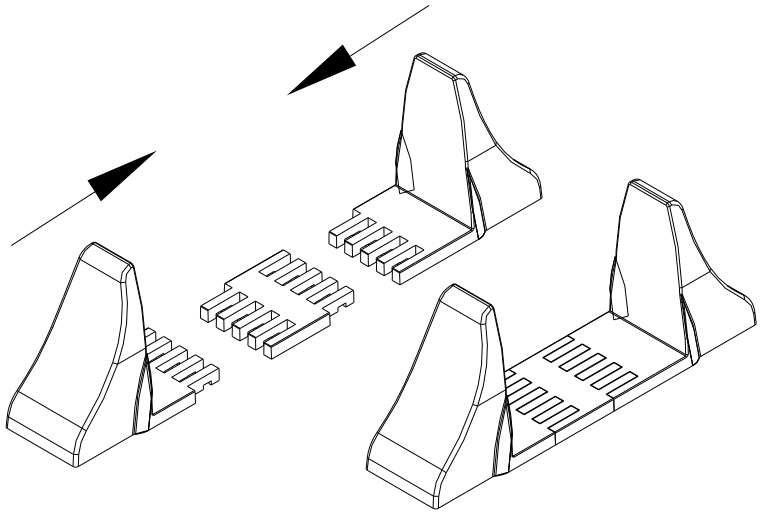


❻ Install XLBP front bezel and UPS front bezel.

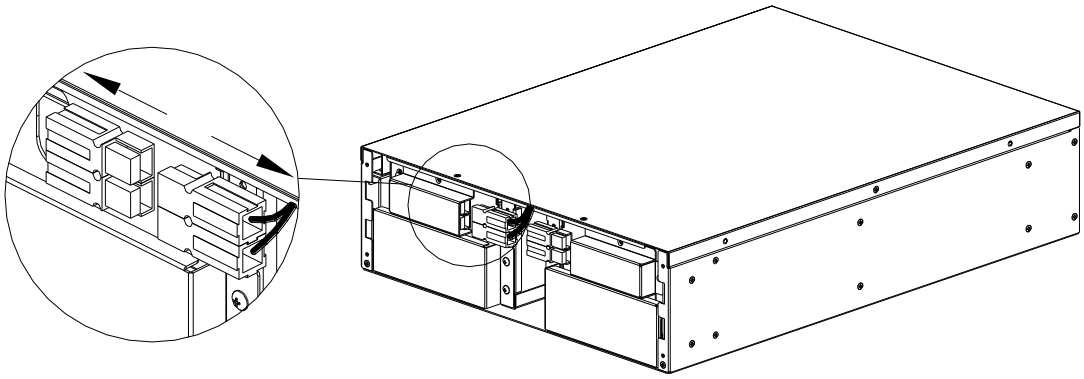


SRTG192XLBPG1

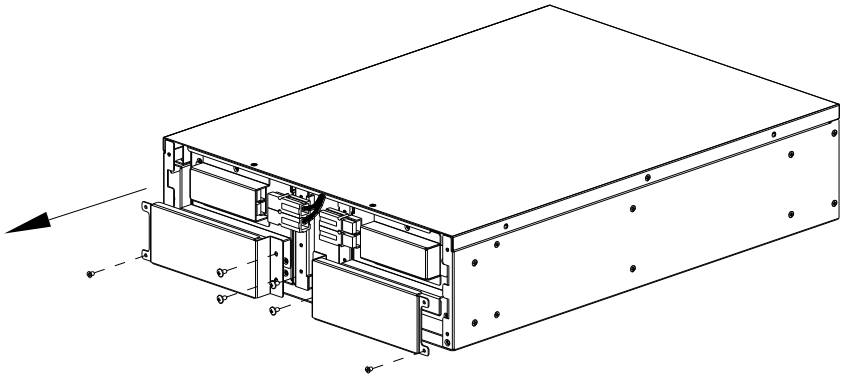
❶ Assemble stabilizer bracket.



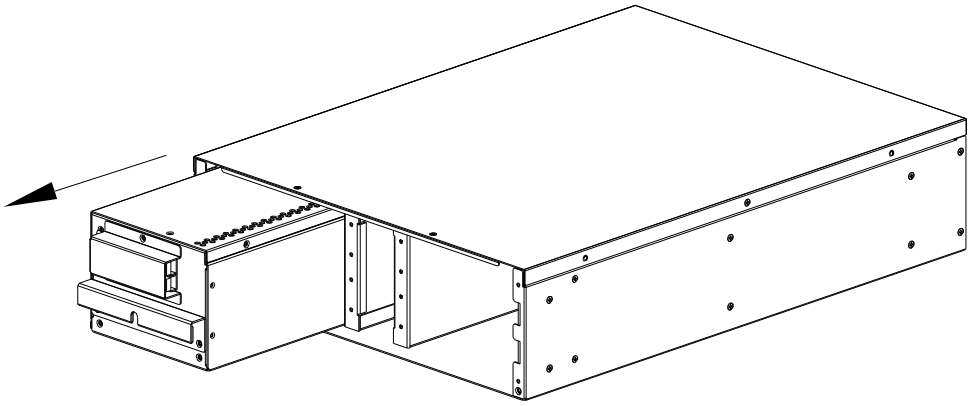
❷ Disconnect battery modules wires.



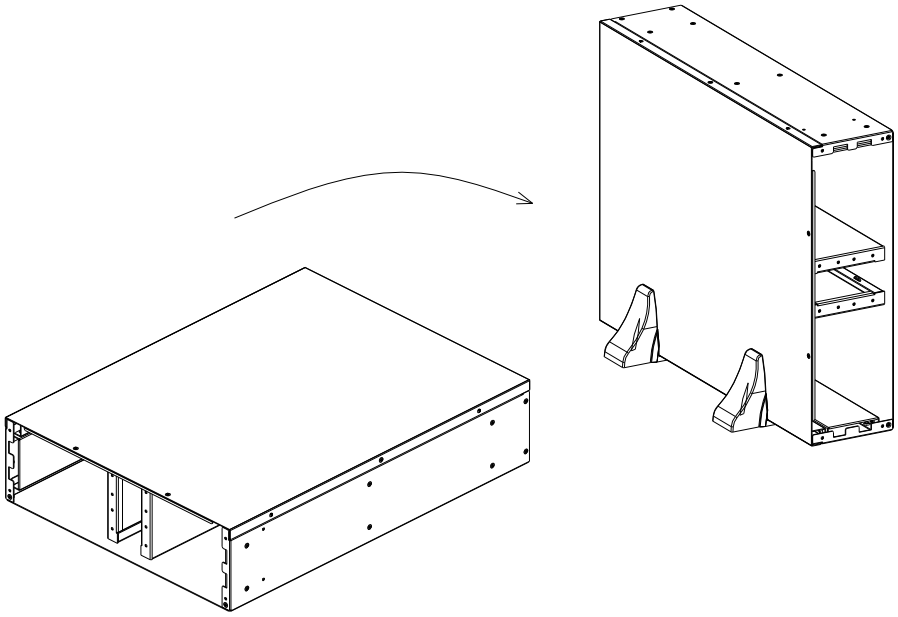
❸ Remove the screw and battery door.



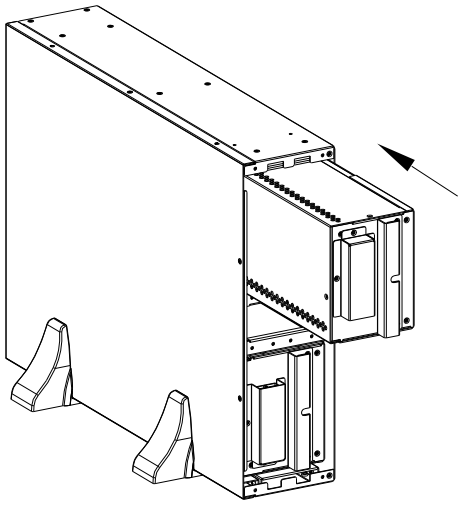
❹ Remove the battery modules.



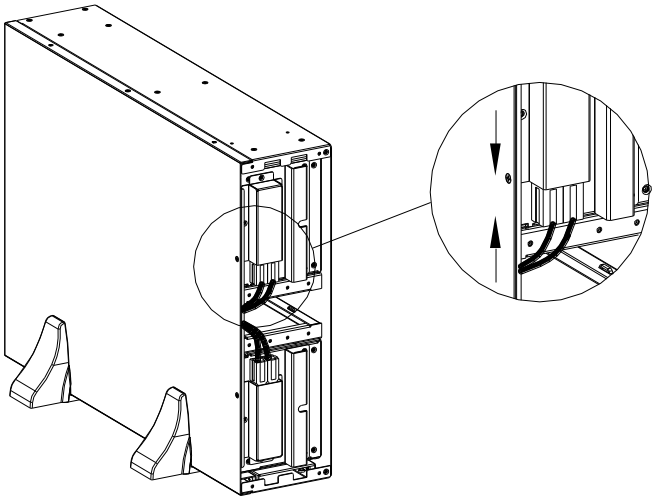
❺ Make the battery pack standing.



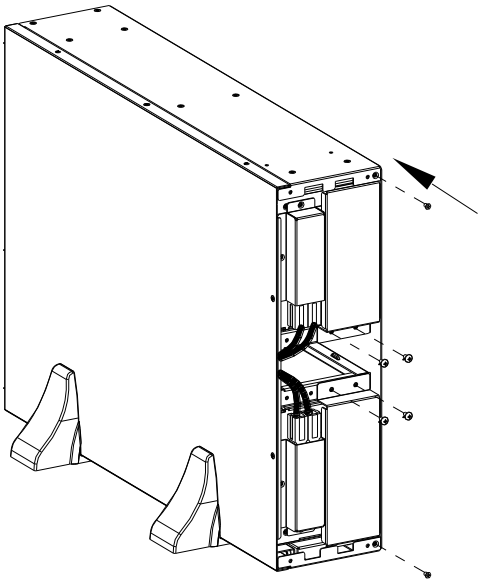
❻ Put 2 battery modules into battery pack.



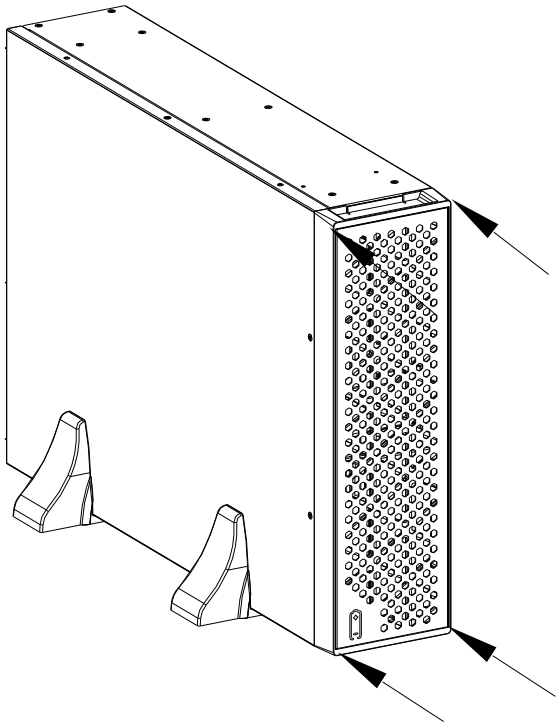
❼ Connect battery modules wires.



❽ Secure the battery door.



❾ Install the front bezel.



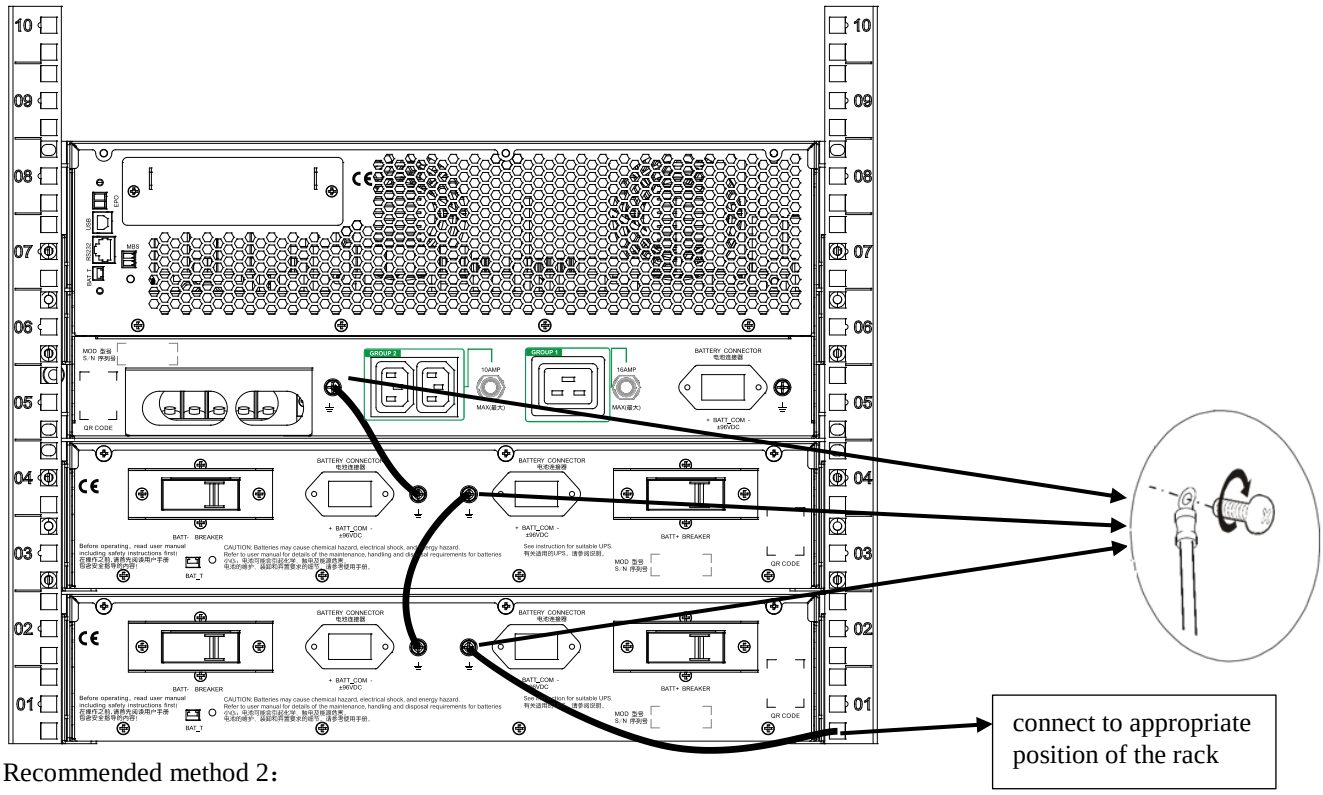
Connect Ground and Battery Wires

SRTG5K/6K XLI models with two SRTG192XLBP

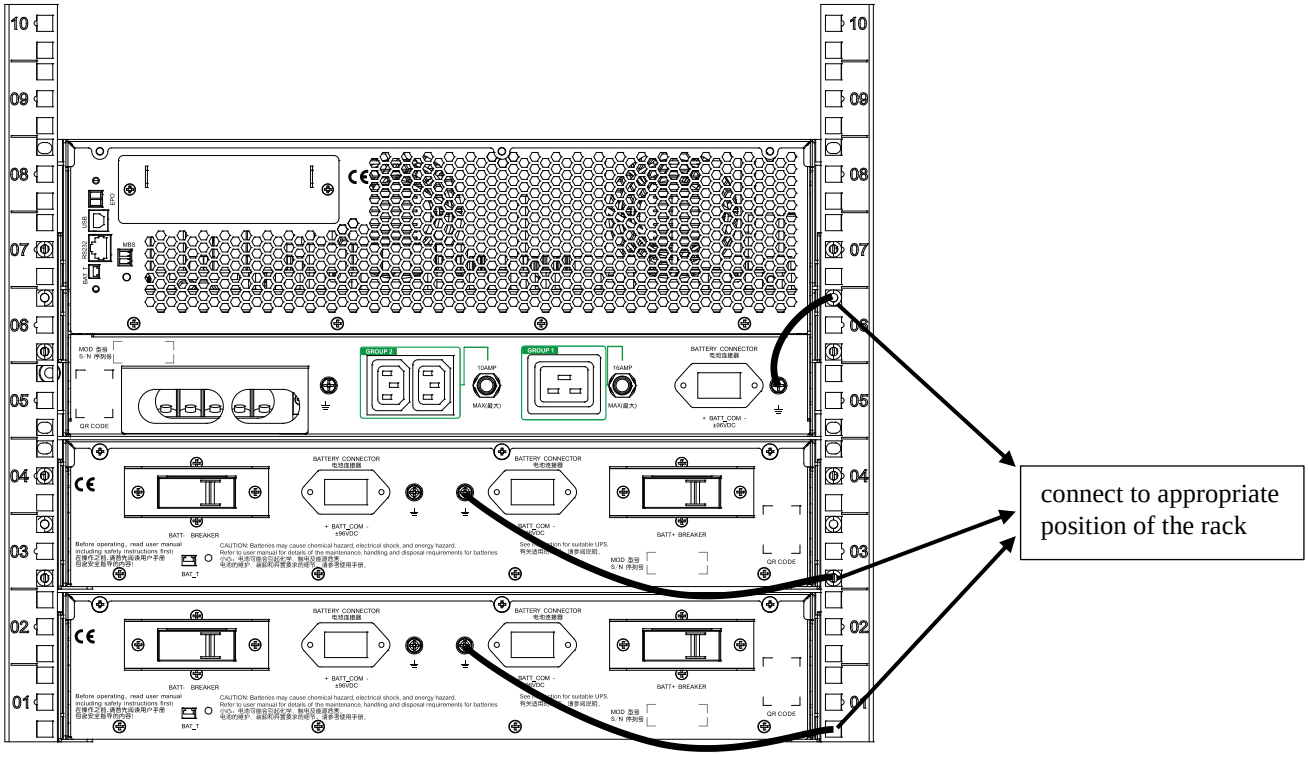
Connect ground wires

Recommended screw torque, 2.72 Nm (24 lbf-in)

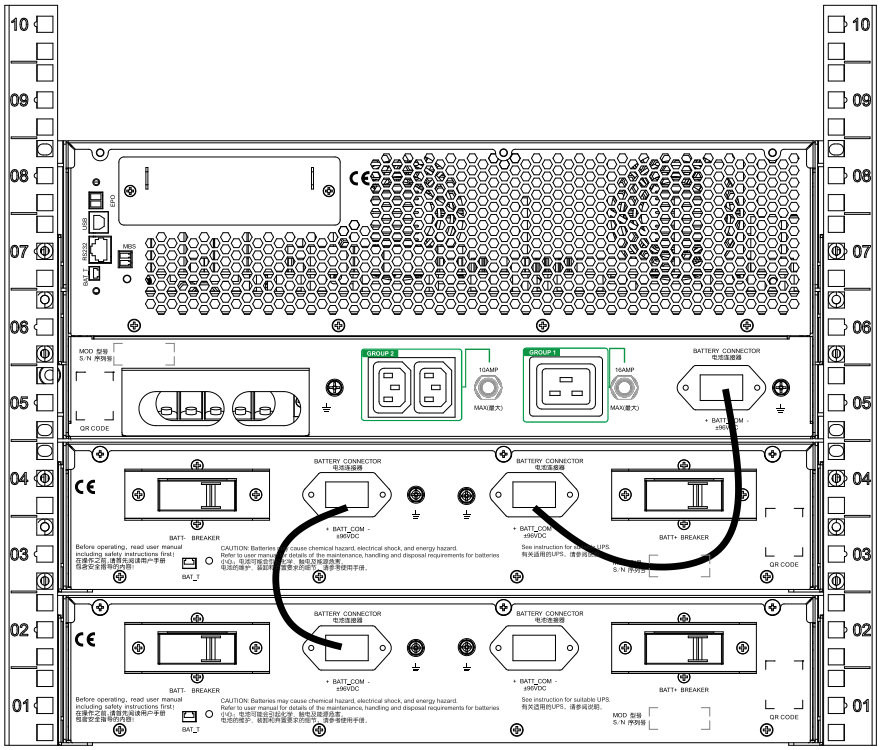
Recommended method 1：



Recommended method 2：



Connect external battery pack wires

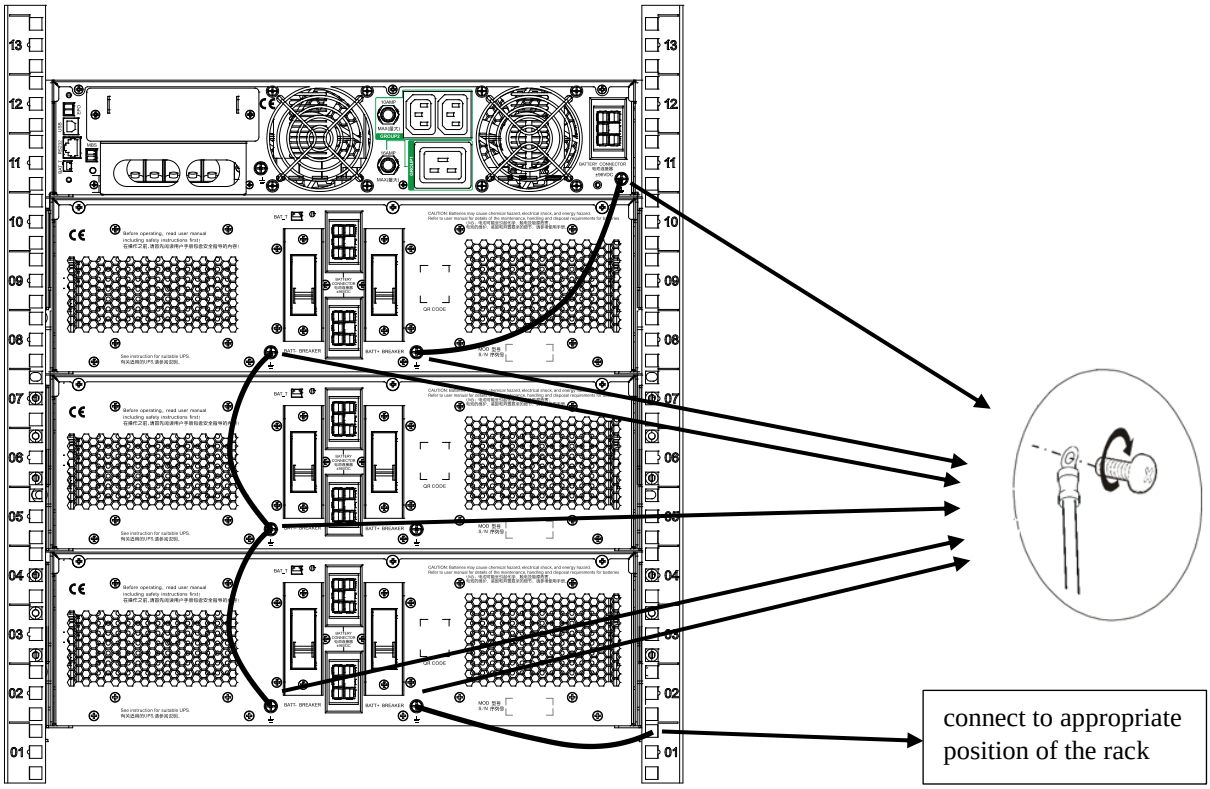


SRTG8K/10KXLI Models with two SRTG192XLBP1

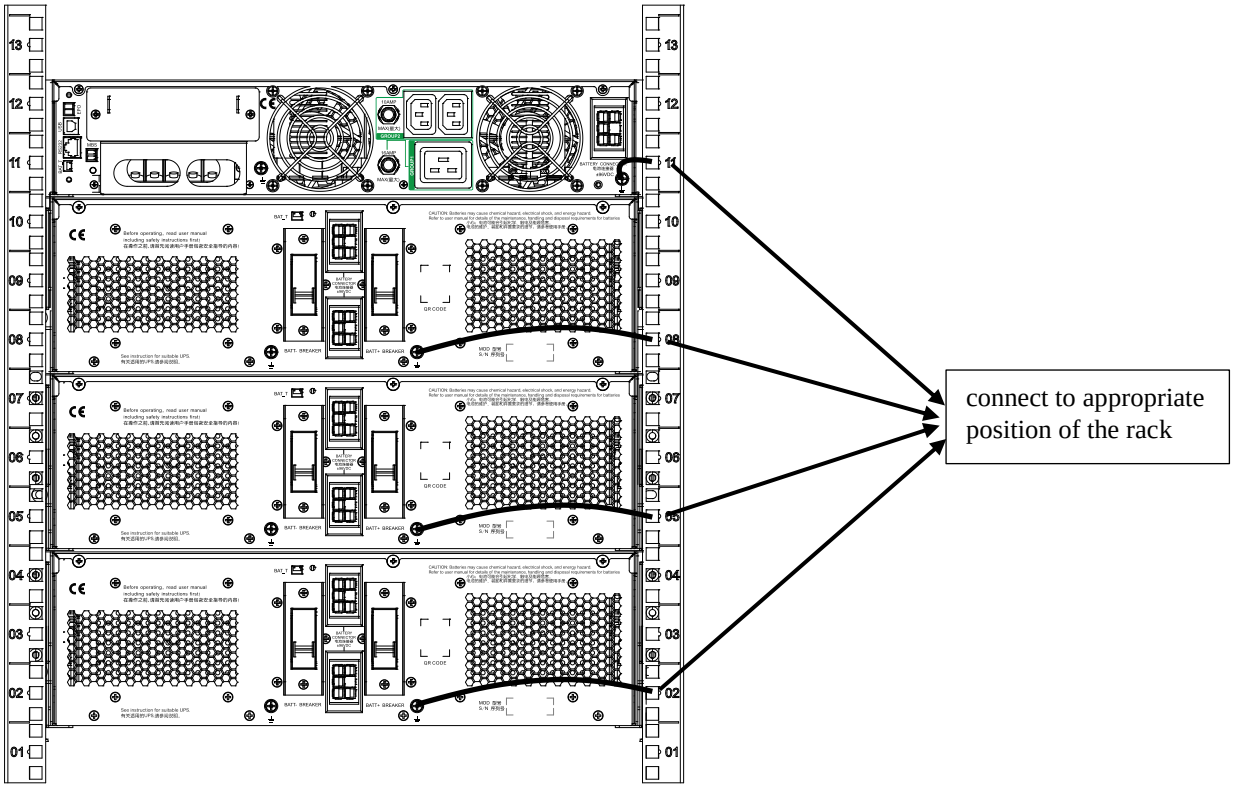
Connect ground wires

Recommended screw torque, 2.72 Nm (24 lbf-in)

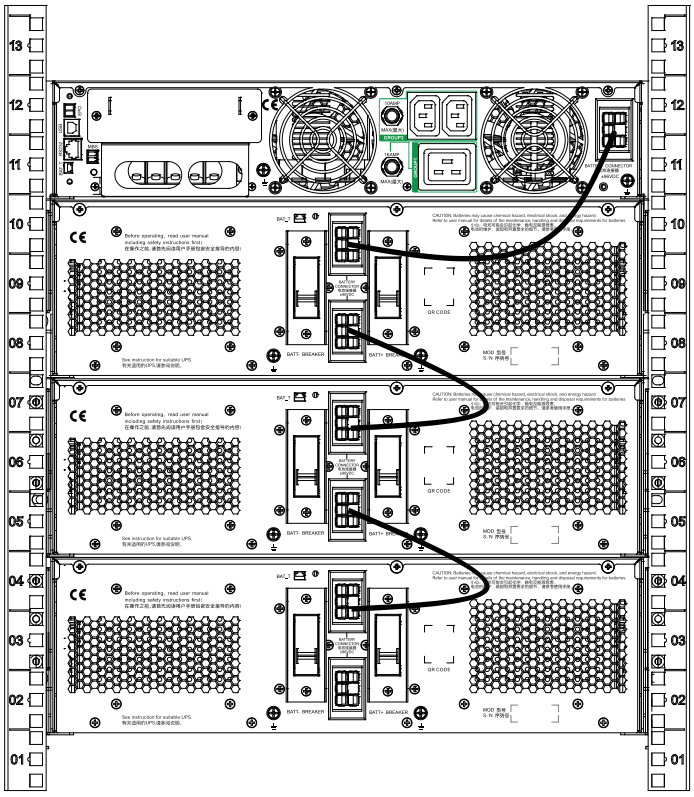
Recommended method 1：



Recommended method 2：



Connect external battery pack wires



Troubleshooting

Issues	Possible Cause	Solution
UPS display Error “122 Battery Over Temp Critical”	• Battery over Temp critical	• Lower ambient temp to normal. If the still persists, consult your dealer.
UPS display Error “163 Battery Temp Sensor Disconnected”	• Battery Temp sensor disconnected	• Check if battery Temp wire are disconnect.
UPS display Error “166 Battery Over Temp”	• Battery over Temp(charging battery over 50℃)	• Lower temp to normal. If the still persists, consult your dealer.
UPS display Error “171-1 +Battery Disconnected”	• Positive battery disconnected	• Check if positive battery are disconnect.
UPS display Error “171-2 -Battery Disconnected”	• Negative battery disconnected	• Check if negative battery are disconnect.
UPS display Error “181 RBC Needs Replacement”	• The RBC needs replacement.	• Replace the RBC.
UPS display Error “Battery Reverse Connection”	• The battery reverse connect.	• Check if battery are incorrectly connect.
UPS display Error “+Battery Over Voltage”	• Positive battery over voltage	• Connect your dealer.
UPS display Error “-Battery Over Voltage”	• Negative battery over voltage	• Connect your dealer.
UPS display Error “+Battery Low Voltage”	• Positive battery low voltage	• Connect your dealer.
UPS display Error “-Battery Low Voltage”	• Negative battery low voltage	• Connect your dealer.
UPS display Error “Battery Low Temperature”	• Battery low temperature	• Raise ambient temp to normal. If the still persists, consult your dealer.
UPS display Error “+Charger Error”	• Positive battery charger error.	• Connect your dealer.
UPS display Error “-Charger Error”	• Negative battery charger error.	• Connect your dealer.

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  - **www.apc.com/support/**
    Global support searching APC Knowledge Base and using e-support.
- Contact APC Customer Support Center by telephone or e-mail.
  - Local, country specific centers: go to **www.apc.com/support/contact** for contact information.

For information on how to obtain local customer support, contact the APC by Schneider Electric representative or other distributor from whom you purchased your APC by Schneider Electric product.

User Document Link

Refer the link or scan the QR code to access the user documentation:

SRTG192XLBP
https://d.go2se.com/SRTG192XLBP

SRTG192XLBP1
https://d.go2se.com/SRTG192XLBP1

Customer support and warranty information are available on the APC web site, **www.apc.com**.

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10/2019