User Manual Easy UPS On-Line External Battery Pack SRV192RLBPX901

Important Safety Instructions

SAVE THESE INSTRUCTIONS - This manual contains important instructions that should be followed during installation and maintenance of the Battery pack.



This is the “Read user manual” symbol. Read the user documentation to become familiar with the equipment.

Read these 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 either 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 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



<18 kg
<40 lb



18-32 kg
40-70 lb



32-55 kg
70-120 lb



>55 kg
>120 lb





Safety and General Information

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

- Adhere to all local and national electrical codes.
- All wiring must be performed by a qualified electrician.
- Changes and modifications to this unit not expressly approved by APC by Schneider Electric could void the warranty.
- This unit is intended 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 UPS are not blocked. Allow adequate space for proper ventilation.
- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- Always install the Battery pack at the bottom in rack-mount configurations. The Easy UPS must be installed above the Battery pack.

Battery Safety

⚠ CAUTION

RISK OF HYDROGEN SULPHIDE GAS AND EXCESSIVE SMOKE

- Replace the battery at least every 5 years or at the end of its service life, whichever is earlier.
- Replace the battery immediately when the UPS indicates battery replacement is necessary.
- 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 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 packs which are older than one year, when installing additional Battery packs.

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

- Servicing of user replaceable batteries should be performed or supervised by personnel knowledgeable about batteries and required precautions. Keep unauthorized personnel away from batteries. In this case, batteries is not user replaceable.
- APC by Schneider Electric uses Sealed Maintenance Free Valve Regulated Lead Acid batteries. Under normal use and handling, there is no contact with the internal components of the batteries. Over charging, over heating or other misuse of batteries can result in a discharge of battery electrolyte. Released electrolyte is toxic and may be harmful to the skin and eyes.
- This equipment contains potentially hazardous voltages. Do not attempt to disassemble the unit. The unit contains no user serviceable parts. Repairs must be performed only by factory trained service personnel.
- Batteries typically last for three to five years. Environmental factors impact battery life. Elevated ambient temperatures, frequent short duration discharges caused due to poor quality utility power will shorten battery life. Batteries should be replaced before end of life.
- CAUTION: Before installing or replacing the batteries, remove jewelry such as wristwatches and rings. High short circuit current through conductive materials could cause severe burns.
- CAUTION: Do not dispose of batteries in a fire. The batteries may explode.
- CAUTION: Do not open or mutilate batteries. Released material is harmful to the skin and eyes and may be toxic.

- CAUTION: Do not connect the terminals of a battery or battery pack with a wire or other electrically conductive objects.
- CAUTION: A battery can present a risk of electrical shock and high short-circuit current. The following precautionsshould be taken when working on batteries:
  - Disconnect the charging source prior to connecting or disconnecting battery terminals.
  - Do not wear any metal objects including watches and rings.
  - Do not lay tools or metal parts on top of batteries.
  - Use tools with insulated handles.
  - Wear rubber gloves and boots.
  - Determine if battery is either intentionally or inadvertently grounded. Contact with any part of a grounded battery canresult in electric shock and burns by high short-circuit current. The risk of such hazards can be reduced if grounds are removed during installation and maintenance by a skilled person.

General Information

- Always recycle used batteries.
- Recycle the packaging materials or save them for reuse.
- Select a location sturdy enough for the combined weight of the units.
- Operate the UPS within the specified environmental limits.
- Be sure to deliver the used battery to a recycling facility or ship it to Schneider Electric in the replacement battery packing material.

Product Description

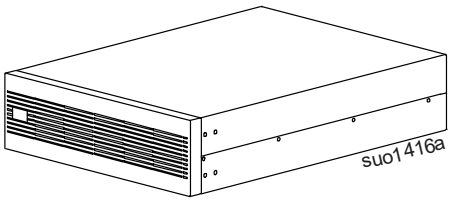
This Battery pack connects to selected APC by Schneider Electric uninterruptible power supply (UPS) models. The UPS and the Battery pack helps to provide extended protection for connected equipment from utility power blackouts, brownouts, sags, and surges. The external Battery pack provides continuous power until utility power returns to normal levels or the batteries are fully discharged. The UPS and the Battery pack are packed separately.

This user manual is available on the APC by Schneider Electric Web site, www.se.com.

Package Contents

Common package contents for SRV192RLBPX901

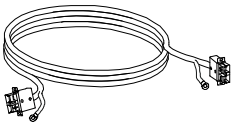
Battery Pack



User Guide

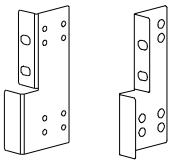


Battery Cable

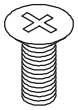


SRV192RLBPX901

Rack-Mount Bracket x 1 pair



Flat Head Screw



NOTE:

- The model and serial numbers are located on a rear panel label.
- The packaging is recyclable; save it for reuse or dispose of it properly.
- For package contents of Easy UPS, refer to the user manual supplied along with Easy UPS.

Optional Accessories

For optional accessories, refer to the APC by Schneider Electric Web site, www.se.com.

For additional specifications, refer to the APC by Schneider Electric Web site, www.se.com.

Specifications

Environmental specifications

NOTICE

RISK OF EQUIPMENT DAMAGE

- Battery pack must be used indoors only.
- The installation location should be sturdy to withstand the weight of the Battery pack.
- Do not operate the Battery pack where there is excessive dust or where the temperature or humidity are outside specified limits.
- Ensure the air vents on the Battery pack are not blocked. Allow adequate space for proper ventilation.

Failure to follow these instructions can result in equipment damage.

Temperature	**Charge**	Charging: 0 to 40 °C (32 to 104 °F)
	Discharge	Discharging: -15 to 40 °C (5 to 104 °F)
	Storage	During storage, charge the Battery pack at least once in every six months.
Elevation	**Operating**	• 0 to 2000 m (0 to 6500 ft): Normal operation • 2000 to 3000 m: The output power reduces at 1% for increase in height of every 100 m • > 3000 m: Battery pack will not work
	Storage	0 to 15000 m (0 to 49212 ft)
Humidity		0% to 95% relative humidity, non-condensing
IP Rating		IP20

Physical Specification

NOTE: The Battery pack is heavy. Follow all lifting guidelines.

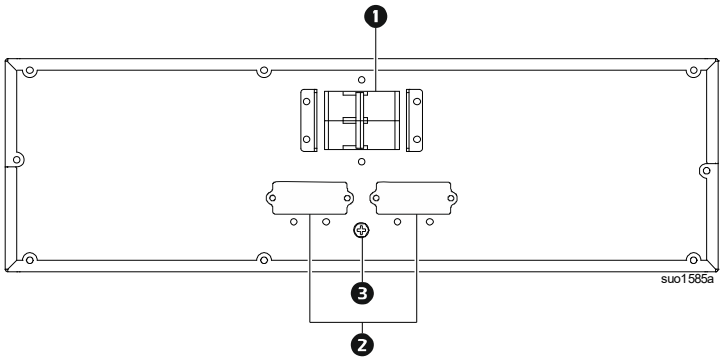
Unit dimensions with packaging Height x Width x Depth	240 x 600 x 760 mm (9.45 x 23.62 x 29.92 in)
Unit dimensions without packaging Height x Width x Depth	130.6 x 438 x 550 mm (5.14 x 17.2 x 21.65 in)
Unit dimensions batteries included, with packaging	59 kg (127.87 lbs)
Unit dimensions batteries included, without packaging	53 kg (116.84 lbs)

Battery

Battery Pack Model	SRV192RLBPX901
Battery type	Sealed maintenance free valve regulated lead acid battery, 12 V, 9 Ah
Battery Voltage	192 VDC

Rear Panel Features

SRV192RLBPX901



1	Circuit breaker
2	Battery connector
3	Ground screw

Rack-Mount Installation

APC Rail Kit accessory SRVRK2 available for purchase, to enable the installation of the Battery pack in rack-mount configuration.

⚠ CAUTION

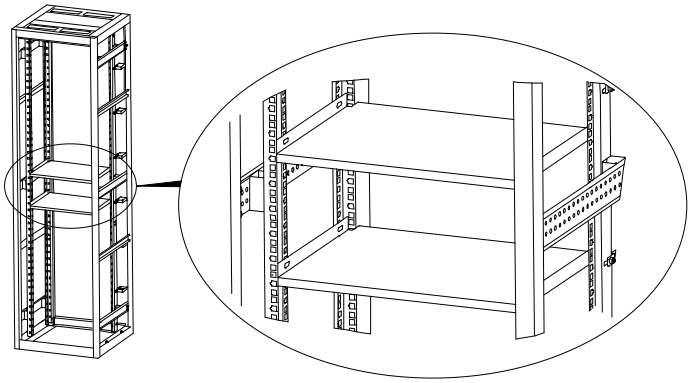
RISK OF FALLING EQUIPMENT

- The equipment is heavy.
- Always practice safe lifting techniques adequate for the weight of the equipment.
- Always install the battery pack at the bottom of the rack.
- Always install the battery pack below the UPS in the rack.
- Given the heavy weight, the use of rack-mount brackets is mandatory during rack installation (guide with L shaped support).
- Always use the recommended number of screws to secure brackets to the battery pack.
- Always use the recommended number of screws to secure the battery pack to the rack.

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

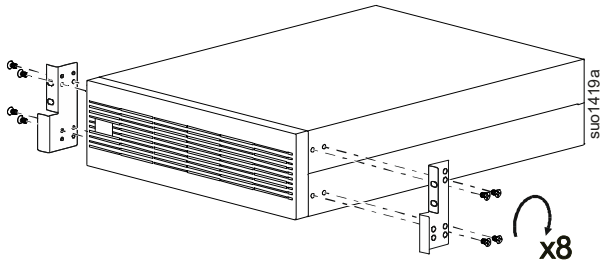
NOTE: For instructions to install Easy UPS in rack-mount configuration, refer to the user manual supplied along with Easy UPS.

- Before installing the battery pack into the 19 inch rack enclosure, be sure that the rack is already equipped with a shelf.
- Be sure that the installed shelf can withstand the weight of the UPS and/or battery pack. Otherwise, install an optional rail kit accessory SRVRK1 (for weight < 60 kg) and SRVRK2 (for weight < 90 kg) which can be purchased separately.

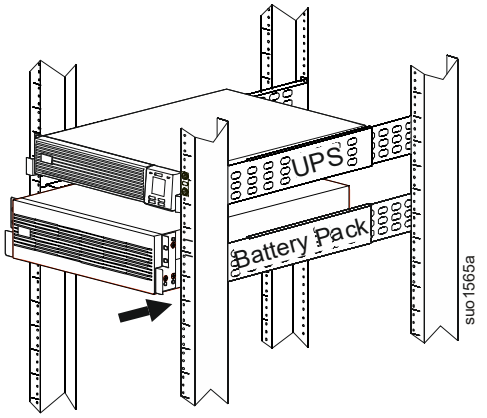


Follow the instructions below to secure and position battery pack into the 19 inch rack enclosure.

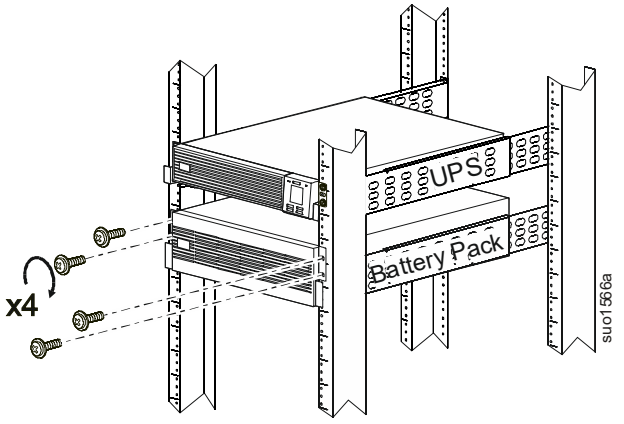
❶ Secure two brackets to the battery pack (SRV192RLBPX901). Use 4 screws in each bracket.



❷ Lift the battery module and slide it into rack enclosure.



❸ Secure the battery module to the rack with screws, nuts and washers (not supplied in the package) through its mounting brackets into the rails.



Connect Battery Pack

⚠ CAUTION

RISK OF ELECTRIC SHOCK

- Identify the polarities of the battery terminals before connecting the battery. Be sure grounding (green cable) is connected firmly.
- Be sure that the battery cable with blue connector is used for connecting SRV72RBP-9A.
- Be sure that the battery cable with gray connector is used for connecting SRV240RBP-9A.
- Do not short the battery terminals.
- Do not wear jewelery when working with electrical equipment.

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

NOTE: Contact Schneider Electric Customer Support to determine the age of the installed Battery packs.

NOTICE

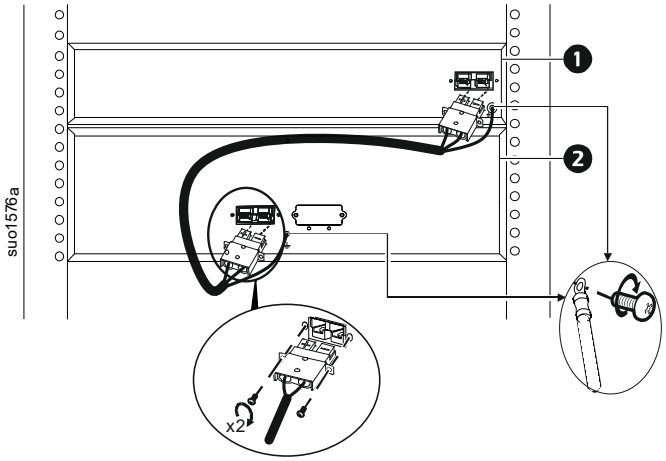
RISK OF IMPROPER CONNECTION

Connect the battery according to the battery voltage indicated on the rear panel. If the connected battery voltage is incorrect, UPS may be damaged and cannot be repaired. Therefore, be sure to confirm that the battery voltage is in accordance with the UPS specification.

Failure to follow these instructions can result in equipment damage.

Connect Battery pack to UPS

Connect UPS to the external Battery pack with a battery cable.



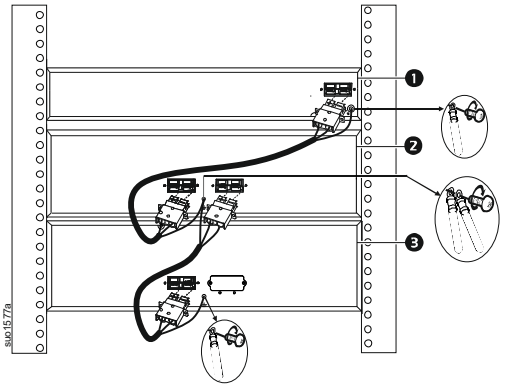
❶	Easy UPS
❷	Battery Pack

1. Locate the battery connector cover on rear panel of Easy UPS and Battery pack.
2. Unfasten the screws to remove the battery connector cover.
3. Use the supplied battery connection cable.
4. Plug each end of the battery cable connector into the battery connector receptacle on the rear side of the Easy UPS and Battery pack.
5. Insert and tighten the screws removed in step 2 to secure the battery connector receptacle to the battery connector.
6. Connect the ground wire to the ground terminal in the Easy UPS and Battery pack.

Connect multiple Battery packs to Easy UPS

If more than one Battery pack is connected to the Easy UPS.

NOTE: The Easy UPS can accommodate a maximum of five external battery packs.



❶	Easy UPS
❷	Battery Pack 1
❸	Battery Pack 2

NOTE: Be sure that the grounding wires are connected firmly.

Troubleshooting

Problem and Possible Cause	Solution
UPS is not supplying power to the connected equipment	
The Battery pack is not connected.	Connect Battery pack to the UPS. Refer “Connect Battery pack to UPS” on page 8 for details.
Low battery cut off. UPS may have discharged the battery due to utility power outage and turned the output off due to low battery condition.	Wait for the utility power to return and charge the battery.
UPS is not providing expected backup time	
The Battery pack is discharged due to a recent power outage.	The batteries require recharging after extended outages.
The Battery pack is near the end of its service life.	If the battery pack is near the end of its service life, consider replacing the battery pack, even if the replace battery indicator is not illuminated.

Transport

1. Shut down and disconnect all connected equipment.
2. Disconnect the unit from mains power.
3. Disconnect all internal and external batteries (if applicable).
4. Follow the shipping instructions outlined in the Service section of this manual.

Service

If the unit requires service, do not return it to the dealer. Follow these steps:

1. Review the *Troubleshooting* section of the manual to eliminate common problems.
2. If the problem persists, contact APC by Schneider Electric Customer Support through the APC by Schneider Electric website, **www.se.com**.
    a. Note the model number and serial number and the date of purchase. The model and serialnumbers are located on the rear panel of the unit.
    b. Call Customer Support. A technician will attempt to solve the problem over the phone. If this isnot possible, the technician will issue a Returned Material Authorization Number (RMA#).
    c. If the unit is under warranty, the repairs are free.
    d. Service procedures and returns may vary internationally. For country specific instructions refer tothe APC by Schneider Electric website, **www.se.com**.
3. Pack the unit properly to avoid damage in transit. Never use foam beads for packaging.Damage sustained in transit is not covered under warranty.
4. Write the RMA# provided by Customer Support on the outside of the package.
5. Return the unit by insured, prepaid carrier to the address provided by Customer Support.

Limited Factory Warranty

Schneider Electric IT Business India Private Ltd. (SEITBIPL), warrants its products to be free from defects in materials and workmanship for a period of two (2) years from the date of purchase. The SEITBIPL obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products or parts there of. Repair or replacement of a defective product or part thereof does not extend the original warranty period.

This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase. Products may be registered online at warranty.apc.com or by mailing in the completed warranty registration card that is included with the documentation.

SEITBIPL shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user or any third person misuse, negligence, improper installation, testing, operation or use of the product contrary to SEITBIPL recommendations or specifications. Further, SEITBIPL shall not be liable for defects resulting from: 1) unauthorized attempts to repair or modify the product, 2) incorrect or inadequate electrical voltage or connection, 3) inappropriate on site operation conditions, 4) Acts of God, 5) exposure to the elements, 6) theft. In no event shall SEITBIPL have any liability under this warranty for any product where the serial number has been altered, defaced, or removed, 7) normal wear resulting from frequent use.

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To obtain service under warranty you must call customer support. Customers with warranty claims issues may access the SEITBIPL worldwide customer support network through the SEITBIPL Web site: www.apc.com. Select your country from the country selection drop down menu. Open the Support tab at the top of the web page to obtain information for customer support in your region. Refer to the product user manual for more information on how to contact customer support.

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