

Delta UPS Amplon Family

Delta External Battery Pack for
Amplon RT Gen3 Series 1/ 2/ 3kVA UPS

Installation & Operation Quick Guide

ENGLISH

1 Product Introduction

The Delta external battery pack is applicable to the Delta Amplon RT Gen3 series 1/ 2/ 3kVA UPS. When a power outage occurs during UPS operation, the external battery pack will provide DC power to maintain the UPS's inverter operation to continuously supply power to the connected critical loads.



2 Important Safety Instructions

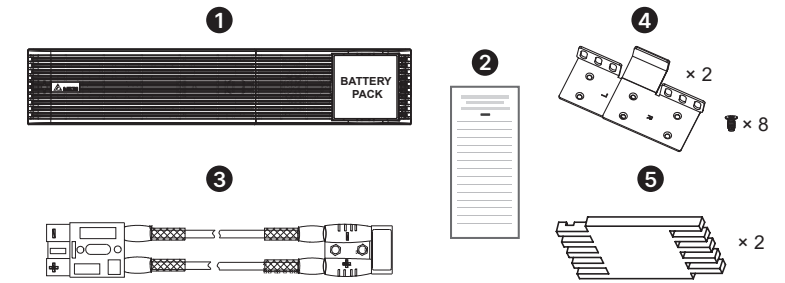
Please comply with all warnings and operating instructions in this quick guide strictly. Save this quick guide properly and read the following instructions thoroughly before installing the unit. Do not operate this unit before reading through all safety information and operating instructions. Do not try to repair the unit yourself. If you need any maintenance, please contact your local supplier or Delta customer service; otherwise, your warranty will be voided.

- To eliminate any overheating of the external battery pack, keep all slits and openings free from obstruction and do not place any foreign objects on the top of the battery pack. Keep the battery pack 200 mm (7.87") away from the wall.
- Make sure the external battery pack is installed in a dry indoor area at a temperature around 0 ~ 40°C (32 ~ 104°F) and at a relative humidity within 30 ~ 90% (non-condensing).
- Do not install the external battery pack under direct sunlight. Your warranty will be voided if the batteries fail due to overheating.
- The external battery pack is not designed for use in any dusty, corrosive and salty environment.

- The warranty for the external battery pack will be voided if water or other liquid is spilled or poured directly onto the battery pack. Similarly, we do not warrant any damage to the battery pack if foreign objects are deliberately or accidentally inserted into the battery pack.
- The batteries will discharge naturally if the system is not being used for a period of time.
- The batteries should be recharged every 2 ~ 3 months if they are not used. If this is not done, the warranty will be voided. During normal operation, the batteries will be automatically remained in charging condition.
- Servicing of the batteries should be performed or supervised by trained personnel with knowledge of the batteries and required precautions.
- For battery replacement, it is necessary to replace all batteries with the same quantity, type and capacity. Never use old, new and different Ah batteries at the same time.
- Do not dispose of the batteries in a fire. The batteries may explode.
- Do not open or damage the batteries. The released electrolyte is harmful to the skin and eyes and may be toxic.
- Risk of electric shock! Hazardous voltage may exist between the battery terminals and ground. Test before touching with bare hands.
- A battery can present a risk of electrical shock and high short-circuit current. Contact with any part of a grounded battery can result in electrical shock. Please observe the following precautions when working on the batteries:
 1. Remove watches, rings, or other metal objects.
 2. Use tools with insulated handles.
 3. Wear rubber gloves and boots.
 4. Do not lay tools or metal parts on top of the batteries.
 5. Disconnect charging source and loads prior to installing or maintaining the batteries.
 6. Remove battery grounds during installation and maintenance to reduce likelihood of shock. Remove the connection from ground if any part of the battery is determined to be grounded. Please note that the battery grounds mean any battery pole (+/-) connecting to the ground.
- Do not connect to or disconnect from the external battery pack connector if the UPS works in battery mode.
- Store the external battery pack in a dry and well-ventilated indoor area at a temperature around -20 ~ 50°C (-4 ~ 122°F) and at a relative humidity within 10 ~ 90% (non-condensing). If it needs to be stored for an extended period of time, please recharge the idle batteries regularly. Please refer to the table below.

Storage Temperature	Recharge Frequency
-20 ~ 40°C (-4 ~ 104°F)	Every 3 months
40 ~ 50°C (104 ~ 122°F)	Every 2 months

3 Package List



No.	Item	Quantity
1	Delta External Battery Pack	1 PC
2	Installation & Operation Quick Guide	1 PC
3	Battery Cable	1 PC
4	Ear Bracket Kit	1 Set (including M4 screw × 8 and ear bracket × 2 PCS)
5	Tower Stand Expander	2 PCS

4 Selection of Installation Position

It is necessary to select a proper indoor area to install the unit in order to minimize the possibility of damage to the external battery pack and extend the life of the batteries. Please follow the instructions below:

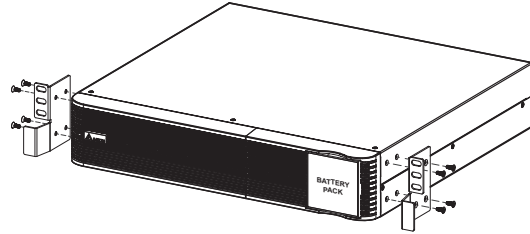
1. Keep a distance of at least 200 mm (7.87") from the rear panel of the unit to the wall, devices or objects.
2. Do not block the slits and openings of the unit.
3. Please ensure the installation site's environmental conditions are in accordance with the unit's working specifications to avoid overheating and excessive moisture.
4. Do not place the unit in any dusty or corrosive environment or near any flammable objects.
5. The unit is not designed for outdoor use.

5 Installation Procedures

• Rack Mounting:

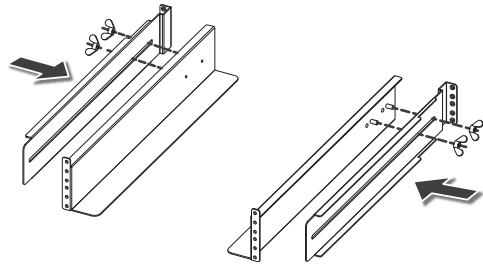
The external battery pack can be rack-mounted in a 19" rack. Please use the rail kit (optional) and ear bracket kit (provided) to perform rack mounting.

- 1 Attach the ear bracket kit to the lateral mounting holes of the external battery pack.



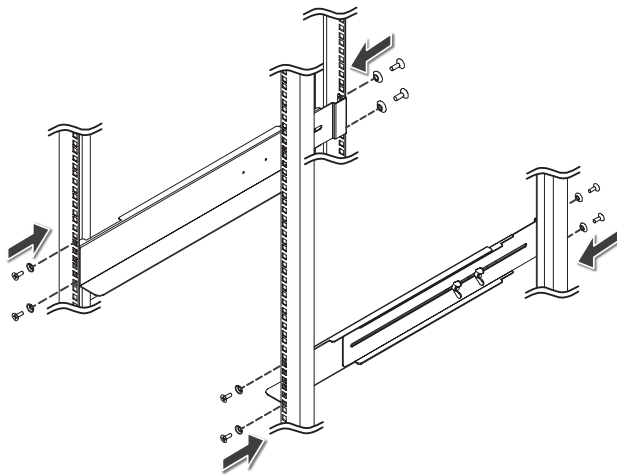
(Figure 1: Install the Ear Bracket Kit)

- 2 Adjust the rails' length according to your rack and tighten the nuts.



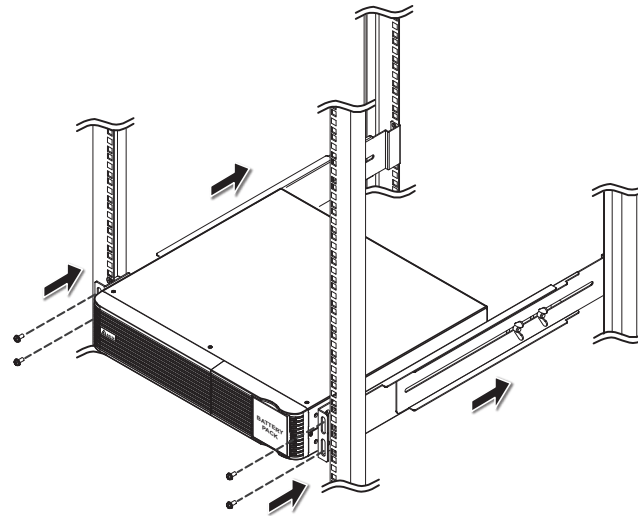
(Figure 2: Adjust the Rails' Length and Tighten the Nuts)

- 3 Use the eight screws and eight washers to attach the rails to your rack.



(Figure 3: Attach the Rails to Your Rack)

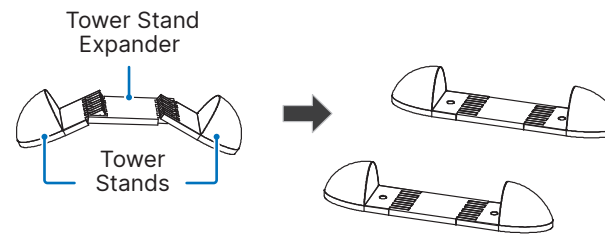
- 4 Insert the external battery pack into the rack and tighten the four screws.



(Figure 4: Insert the External Battery Pack into Your Rack)

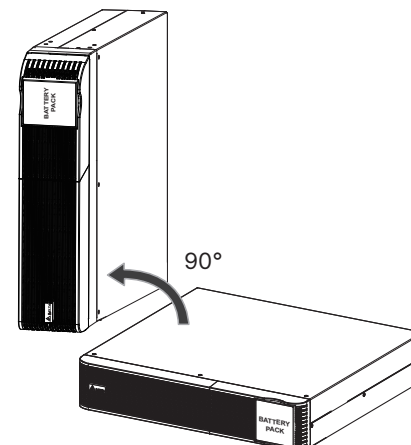
• Tower Mounting:

- 1 Assemble the tower stands (provided in the UPS's package) by inserting the tower stand expander (provided in the external battery pack's package).



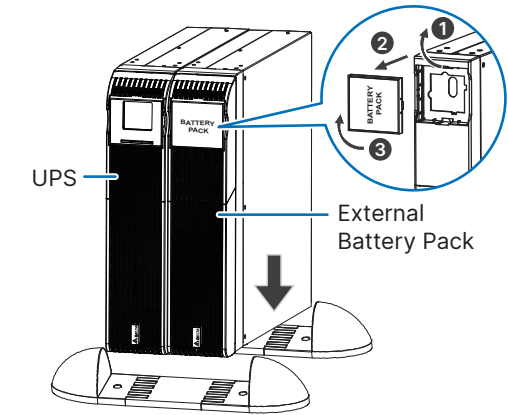
(Figure 5: Assemble the Tower Stands)

- 2 Carefully lift the external battery pack upright. A minimum of two people are required.



(Figure 6: Lift the External Battery Pack Upright)

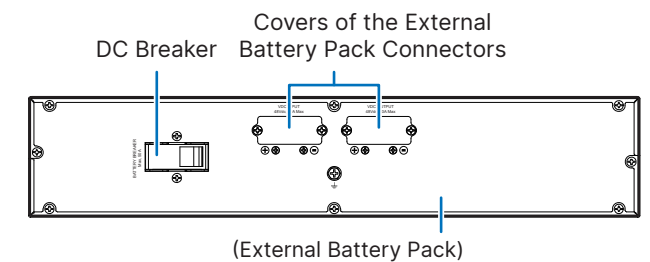
- 3 Place the external battery pack and the UPS into the tower stands. After that, follow 1 ~ 3 shown in the figure below to rotate the front panel of the external battery pack 90° clockwise.



(Figure 7: Place the External Battery Pack and the UPS into the Tower Stands & Rotate the Front Panel)

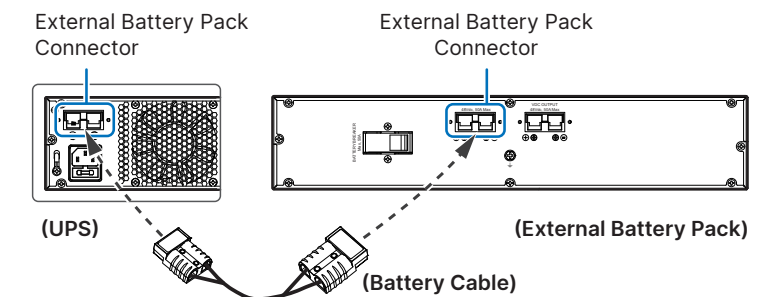
6 Connection

Please follow the procedures below to connect the external battery pack with the UPS.



(Figure 8: Rear View of the External Battery Pack)

- 1 Set the external battery pack's DC breaker to the **OFF** position.
- 2 Remove the covers of the external battery pack connectors located at the rear.
- 3 Follow **Figure 9** to use the battery cable to connect the external battery pack and the UPS.

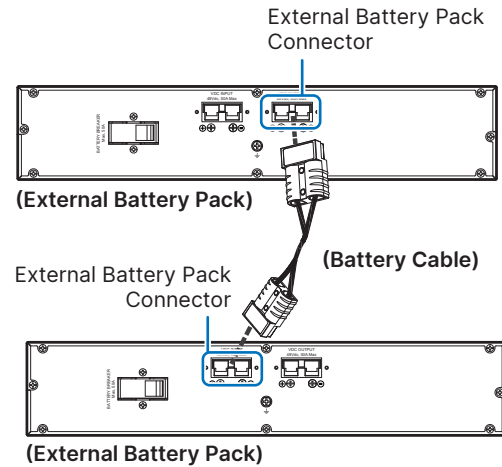


(Figure 9: Use the Battery Cable to Connect the External Battery Pack and the UPS)

- 4 Set the external battery pack's DC breaker to the **ON** position.

7 Parallel the External Battery Packs

To extend the backup time, you may parallel the external battery packs before connecting them to the UPS. Only the same type of external battery packs (same part No.) can be paralleled. Please use the provided battery cable to connect the connectors of the external battery packs that need to be paralleled.



(Figure 10: Use the Battery Cable to Parallel the External Battery Packs)

8 Operation Procedures

- 1 Follow *Chapter 4 : Connection* stated in the *Delta Amplon RT Gen3 Series 1/ 2/ 3kVA UPS User Manual* to execute the input and output connection.
- 2 Follow *Chapter 4 : Connection* stated in the *Delta Amplon RT Gen3 Series 1/ 2/ 3kVA UPS User Manual* to turn on the UPS.

9 Maintenance

The external battery pack contains no user-serviceable parts. If the battery life (usually 3~ 5 years at an ambient temperature of 25°C (77°F)) has expired, the batteries must be replaced. In this case, please contact your local supplier or Delta customer service.



NOTE:

Be sure to deliver the spent or used batteries to a recycling facility or ship them to your local supplier in the replacement battery packing material.

10 Specifications

Delta External Battery Pack	RT 24V18Ah EBC	RT 48V18Ah EBC	RT 72V18Ah EBC
Compatible UPS	RT-1K standard runtime model	RT-2K standard runtime model	RT-3K standard runtime model
Battery Type	VRLA		
Battery Quantity	2 × 2 × 12V, 9Ah	2 × 4 × 12V, 9Ah	2 × 6 × 12V, 9Ah
Environment	Operating Altitude	0 ~ 3000 meters (0 ~ 9842.52 ft) 2000 ~ 3000 meters (6561.68 ~ 9842.52 ft) (with derating)	
	Operating Temperature	0 ~ 50°C (32 ~ 122°F)*	
	Relative Humidity	10 ~ 90% (non-condensing)	
Physical	Dimensions (W × D × H)	438 × 410 × 86 mm (17.24" × 16.14" × 3.39")	438 × 480 × 86 mm (17.24" × 18.9" × 3.39")
	Weight	16 kg (35.27 lb)	28.6 kg (63.05 lb)

Delta External Battery Pack	RT 36V9Ah EBC	RT 72V9Ah EBC	
Compatible UPS	RT-1K extended runtime model	RT-2/3K extended runtime mode	
Battery Type	VRLA		
Battery Quantity	1 × 3 × 12V, 9Ah	1 × 6 × 12V, 9Ah	
Environment	Operating Altitude	0 ~ 3000 meters (0 ~ 9842.52 ft) 2000 ~ 3000 meters (6561.68 ~ 9842.52 ft) (with derating)	
	Operating Temperature	0 ~ 50°C (32 ~ 122°F)*	
	Relative Humidity	10 ~ 90% (non-condensing)	

Delta External Battery Pack	RT 36V9Ah EBC	RT 72V9Ah EBC	
Physical	Dimensions (W × D × H)	438 × 410 × 86 mm (17.24" × 16.14" × 3.39")	438 × 410 × 86 mm (17.24" × 16.14" × 3.39")
	Weight	13.8 kg (30.42 lb)	21.9 kg (48.28 lb)



NOTE:

1. Please refer to the rating label for the safety certification.
2. All specifications are subject to change without prior notice.
3. * When the operating temperature is 40 ~ 50°C (104 ~ 122°F), the rated output power needs to be de-rated.

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