

BORRI[®] GALILEO UPS

Battery box



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1 Safety instructions

Save these instructions

This manual contains important instructions that should be followed during installation and maintenance of the battery box and batteries.

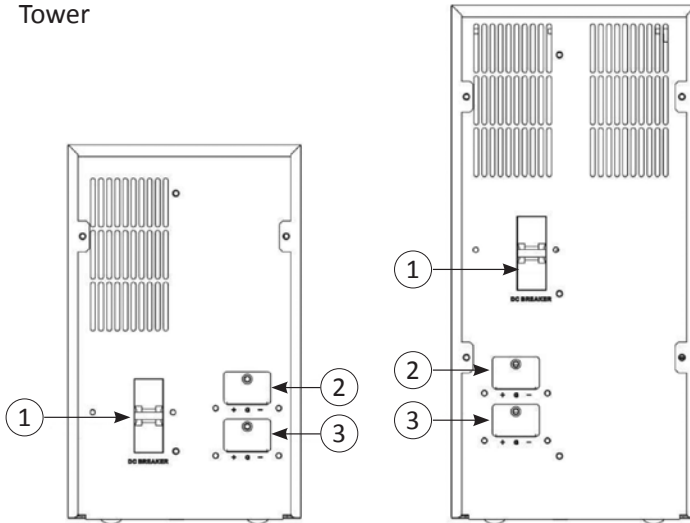
An important notice

- The battery box which is supplied with a factory input plug can be safely connected to the wall receptacle by the user.
- This battery box is connected to an UPS. There will be voltage at the output terminals if the UPS is turned on even if the input AC mains is not available.
- Make sure that the AC utility outlet is correctly grounded.
- Do not try to repair the unit yourself, contact your local supplier or your warranty will be void.
- Use a certified input power cable with the correct plugs and sockets for the appropriate voltage system.
- To eliminate any overheating of the battery box, keep all ventilation openings free from obstruction and do not place any foreign objects on top of the battery box. Keep the battery box 30 cm away from the wall.
- Make sure the battery box is installed within the proper environment as specified. (0°C -40°C and 30°C -90% non-condensing humidity).
- Do not install the battery box under direct sunlight. Your warranty will be void if the batteries fail due to overheating.
- This battery box is designed for indoor use only.
- This battery box is not designed for use in dusty, corrosive and salty environment.
- The warranty for this battery box will be void if water or other liquid is spilt or poured directly onto the battery box. Similarly we do not warrant any damage to the battery box if foreign objects are deliberately or accidentally inserted into the battery box enclosure.
- The battery will discharge naturally if the system is unused for a period of time.
- It should be recharged every 2-3 months if unused. If this is not done, then the warranty will be null and void. During normal operation, the batteries will be automatically remained in charged condition.
- Servicing of batteries should be performed or supervised by trained personnel with knowledge of batteries and the required precautions.
- When replacing batteries, replace with the same quantity, type & capacity.
- CAUTION - Do not dispose of battery or batteries in an open fire. The battery may explode.
- CAUTION - Do not open or mutilate the batteries. The electrolyte from the batteries is toxic and harmful to the skin and eyes.
- CAUTION - Risk of electric shock - battery circuit is not isolated from AC, hazardous voltage may exist between battery terminals and ground. Test before touching with bare hands.
- CAUTION - A battery can present a risk of electrical shock and high short circuit current. The following precaution should be observed when working on batteries:
 - A. Remove watches, rings, or other metal objects.
 - B. Use tools with insulated handles.
 - C. Wear rubber gloves and boots.
 - D. Do not lay tools or metal parts on top of batteries.
 - E. Disconnect charging source prior to connecting or disconnecting battery terminals.

2 Introduction to the panel

Rear panel descriptions

Tower



1. DC Breaker

1. Battery over-current protection breaker.

2. To easy swappable battery, please put the position of the breaker in "O" position. In case there is 2nd (or next) battery box connected with the battery box, the DC voltage from the UPS Bat.+/- will flow through without any interruption to the 2nd battery box.

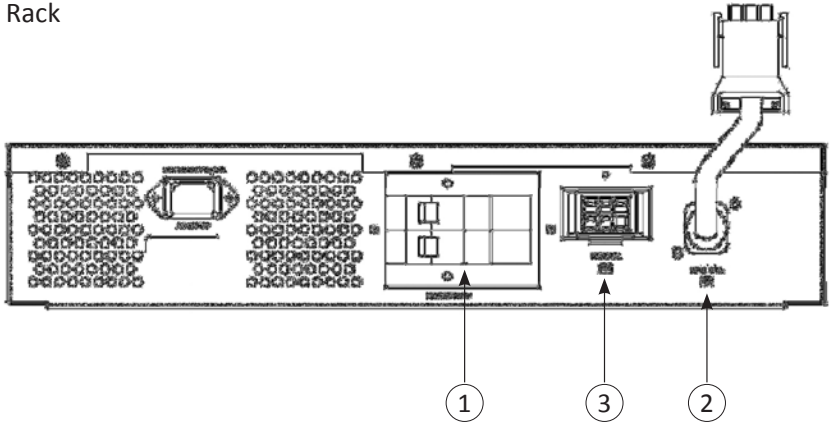
2. UPS battery +/-

To the UPS DC connected.

3. External battery +/- connector +/-

To the DC connected of the 2nd (or next) battery box connected.

Rack



- | | |
|---|---|
| <p>1. DC Breaker</p> | <p>1. Battery Over-current Protection Breaker.
 2. To easy swappable battery, please put the position of the breaker in "O" position. In case there is 2nd (or next) battery box connected with the battery box, the DC voltage from the UPS Bat.+/- will flow through without any interruption to the 2nd Battery Box.</p> |
| <p>2. UPS battery +/-</p> | <p>To the UPS DC terminal or the next battery box.</p> |
| <p>3. External Battery +/- connector +/-</p> | <p>To the DC terminal of the 2nd (or next) battery box connected.</p> |

3 Installation and operation

*The packing condition and the external outlook of the unit must be inspected carefully before installation.
Retain the packing material for future use.*

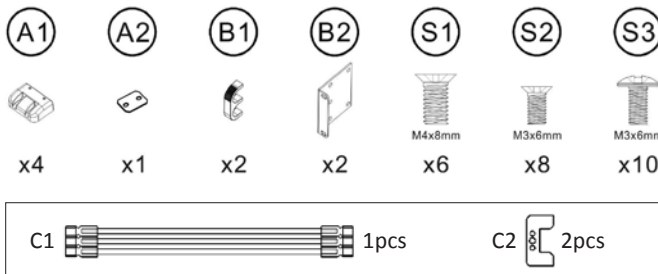
Unpacking

Take the battery box out of the PE foam.
Remove the packing materials.

Note: The battery box module is approx. 12.2 ~ 50 kgs, be cautious when unpacking and lifting the unit to avoid injury.

Standard package includes:

DC connect cable (C1 or C2)
Accessories for Tower Mount
Accessories for Rack/Tower A1~A2, B1~B2, S1~S3



Installation position

It is necessary to select a proper environment to install the unit, in order to minimize the possibility of damage to the battery box and extend the life of the batteries.

Please follow the instructions below:

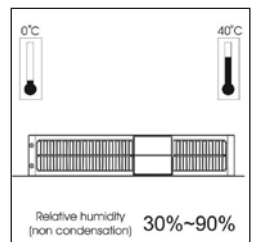
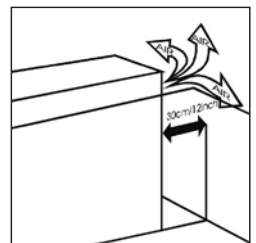
Keep at least 30cm (12 inches) clearance from the rear panel of the battery box from the wall or other obstructions.

Do not block the air-flow to the ventilation openings of the unit.

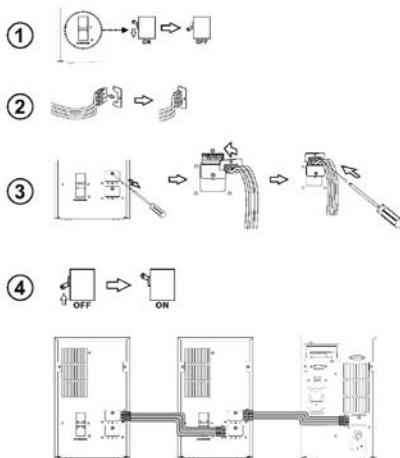
Please ensure the installation site environmental conditions are in accordance with the battery box working specifications to avoid overheat and excessive moisture.

Do not place the battery box in a dusty or corrosive environment or near any flammable objects.

This battery box is not designed for outdoor use.

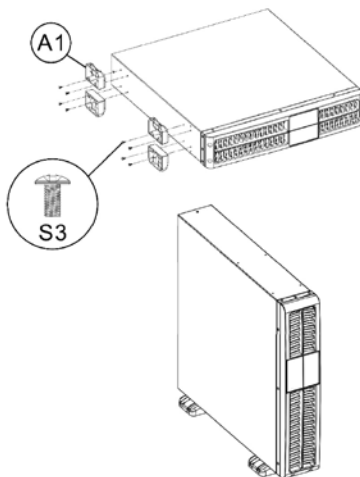


Installation instructions

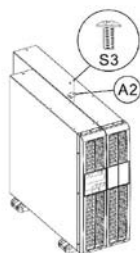


Installation supports of Rack/Tower units

Tower

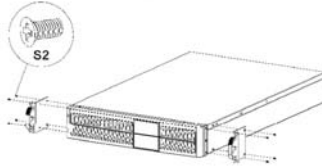


Use with UPS

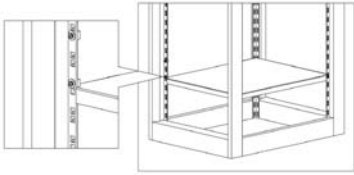


Rack

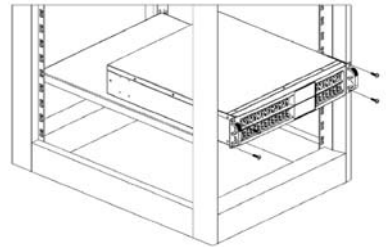
Step 1



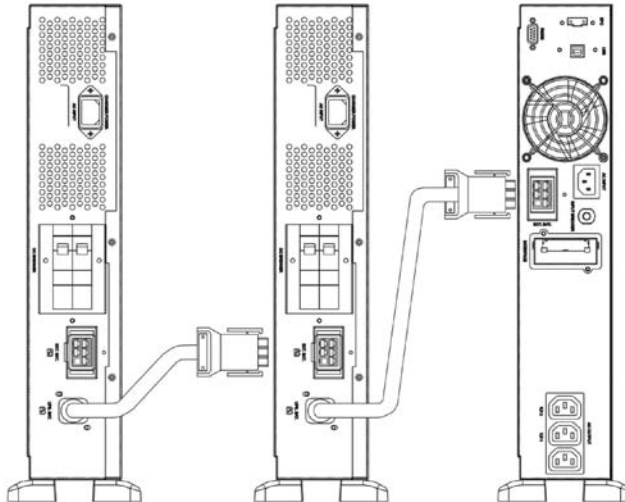
Step 2



Step 3



DCT connection cable



First battery Box

Second battery box

UPS

Storage instructions

For extended storage through moderate climate(-15 °C to +30°C / +5 °F to +86 °F), the batteries should be charged for 12 hours every 6 months by plugging the UPS power cord into the wall receptacle. Repeat this every 3 months under high temperature (+30 °C to +45 °C /+86 °F to +113 °F) environment.

4 Battery box specification

Battery box GALILEO T specification

UPS	1000VA	2000VA	3000VA
Battery box code	MUPSATT0001	MUPSATT0002	MUPSATT0003
Nominal system voltage	24 VDC	48 VDC	72 VDC
Battery quantity	4	12	12
Battery type	9 Ah	9 Ah	9 Ah
Max UPS charge current*			
Standard	2.2 A	1.4 A	1 A
External charger	5.2 A	4.4 A	4 A
Connector color	Red (+), Black (-), Green (Gnd)		
	Dimensions W x D x H (mm)		
Unit	144 x 367 x 236	151 x 444 x 322	151 x 444 x 322
Shipping	304 x 398 x 527	304 x 484 x 604.6	304 x 484 x 604.6
	Weight (kg)		
Unit	14.7	39.0	39.0
Shipping	15.9	40.5	40.5

* Battery box requires an external 250 W battery charger for charging the batteries
cod. MUPSACC0006

Battery box GALILEO RT specification

UPS	1000VA	2000VA	3000VA
Battery box code	MUPSBATT0006	MUPSBATT0007	MUPSBATT0008
Nominal system voltage	24 VDC	48 VDC	72 VDC
Battery quantity	8	8	12
Battery type	9 Ah	9 Ah	9 Ah
Max UPS charge current*			
Standard	1.5 A	1 A	1 A
External charger	4.5 A	4 A	4 A
Connector color	Red (+), Black (-), Green (Gnd)		
	Dimensions W x D x H (mm)		
Unit	440 x 650 x 88	440 x 650 x 88	440 x 650 x 88
Shipping	560 x 833 x 228	560 x 833 x 228	560 x 833 x 228
	Weight (kg)		
Unit	28.6	28.6	37.4
Shipping	30	30	39

Contact your local recycling or hazardous waste center for information on proper disposal of the used battery.



