

Alpha Continuity 6K / 10K Battery Pack

Technical Guide: 0320008-J0

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Alpha Continuity 6K / 10K Battery Pack

NOTE:

Photographs contained in this manual are for illustrative purposes only. These photographs may not match your installation.

NOTE:

Operator is cautioned to review the drawings and illustrations contained in this manual before proceeding. If there are questions regarding the safe operation of this powering system, contact Alpha Technologies or your nearest Alpha representative.

NOTE:

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1. Important Safety Instructions

Save These Instructions

This section contains important instructions that must be followed during the installation and maintenance of the equipment and batteries. Read all of the instructions before operating the equipment, and save this manual for future reference.

The following safety symbol is found throughout this manual:



Carefully read all information and abide by the instructions.

The following warning levels are used in conjunction with the symbol:

DANGER: You WILL be KILLED or SERIOUSLY INJURED if instructions are not followed closely.

WARNING: You CAN be KILLED or SERIOUSLY INJURED if instructions are not followed closely.

CAUTION: You CAN be INJURED or equipment can be DAMAGED if instructions are not followed closely.

Battery Safety

Servicing and connection of batteries must be performed by, or under the direct supervision of, trained personnel knowledgeable of batteries and the required safety precautions.



CAUTION: Follow battery manufacturer's safety recommendations when working around battery systems.



CAUTION: Batteries are hazardous to the environment and should be disposed of safely at a recycling facility. Consult the battery manufacturer for recommended local authorized recyclers.



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 – the battery circuit is not isolated from AC, a 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. Observe the following precautions when working on batteries:

- Remove watches, rings, or other metal objects.
- Use tools with insulated handles.
- Wear rubber gloves and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect charging source prior to connecting or disconnecting battery terminals.
- Do not plug or unplug the battery connector if UPS is in DC (discharging) mode.

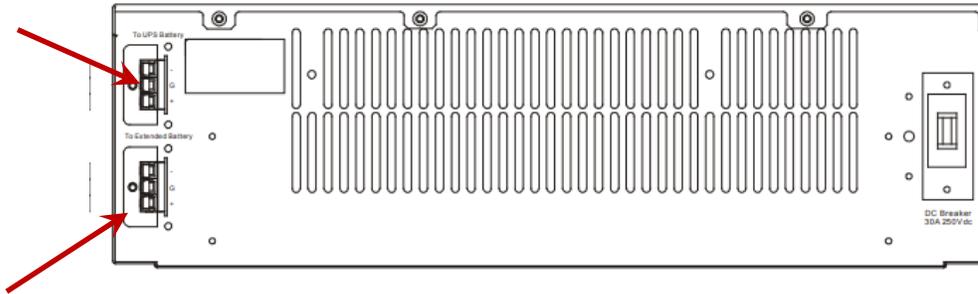


CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the battery manufacturer's instructions.

- This battery pack is intended to be connected to an UPS. There will be a DC voltage at the connector terminals.
- Do not try to repair the unit yourself, contact your local supplier or your warranty will be void.
- To eliminate any overheating of the battery pack, keep all ventilation openings free from obstruction and do not place any foreign objects on top of the battery pack. Keep the battery pack 20 cm (8 in) away from the wall.
- Make sure the battery pack is installed within the proper environment as specified – ambient 0-40°C (32-104°F) and 30-90% non-condensing humidity.
- Do not install the battery pack under direct sunlight. Your warranty will be void if the batteries fail due to overheating.
- This battery pack is designed for indoor use only.
- This battery pack is not designed for use in dusty, corrosive and salty environment.
- The warranty for this battery pack will be void if water or other liquid is spilt 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 enclosure.
- The battery will discharge naturally if the system is unused for a period of time. The batteries should be charged by plugging in to a UPS for 12 hours every 6 months in a moderate climate (-5 to +30 °C / 23 to +86 °F), or every 3 months at higher temperatures (+30 to +45 °C / +86 to +113 °F). 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.
- When replacing batteries, always replace with the same quantity, type and capacity.

2. Rear Panel Components

Connector to UPS external battery connector



Battery connector for daisy chaining battery packs

Battery Breaker:

- 30A 6K
- 50A 10K

3. Installation and Operation

Note: The packing condition and the exterior of the unit should be inspected carefully before installation. Retain the packing material for future use.

3.1. Unpacking

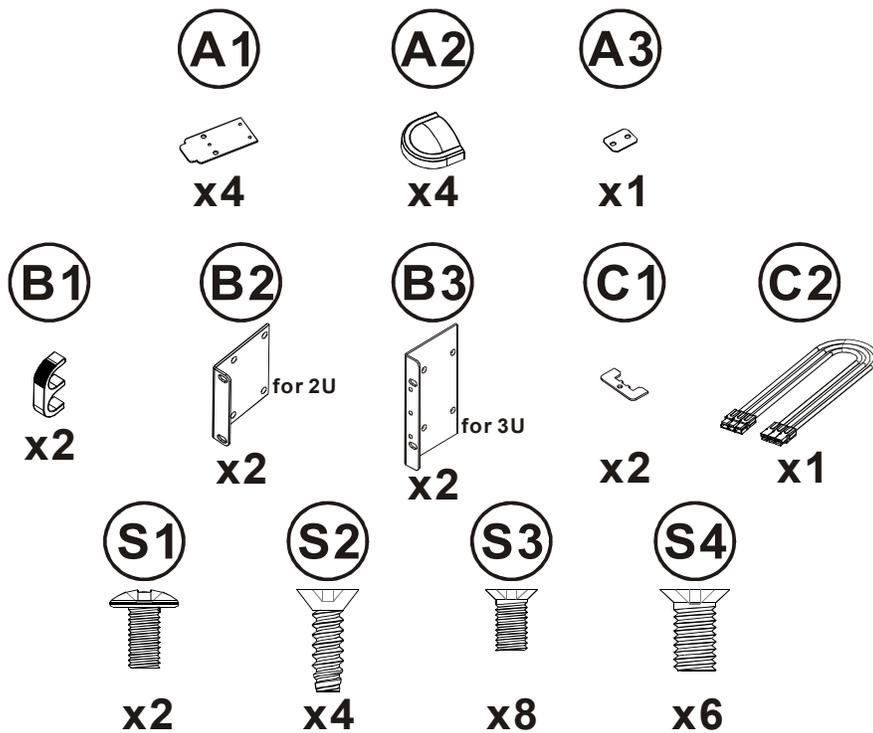


WARNING: The battery pack module is 54.2 to 65.2 kgs (119 to 143 lbs); be cautious when unpacking and lifting the unit to avoid injury.

1. Remove the packing materials.
2. Take the battery pack out of the foam.

A standard package includes the following:

- User manual
- DC connect cable (C2)
- DC connect cable restraint (C1)
- The Rack/Tower kits A1~A3, B1~B3, C1~C2 and S1~S4 for rack mounted model

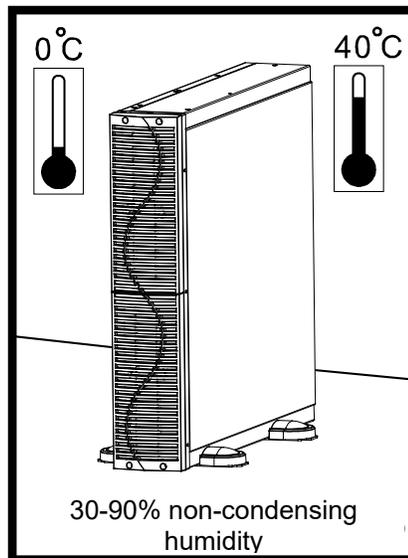
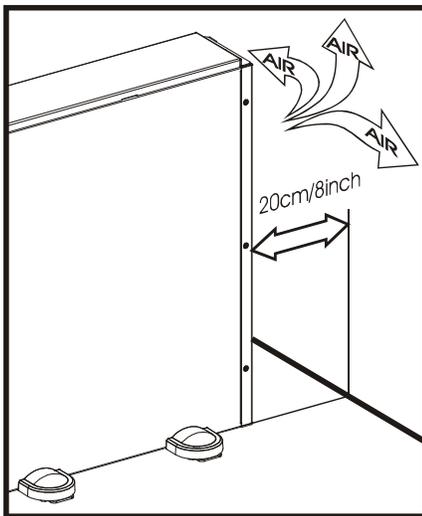


3.2. Selecting an Installation Position

The battery cable is 8 inches long. Plan to install the battery pack within 3 to 4 inches from the UPS or another battery pack.

Select an environment for the unit that will minimize the possibility of damage to the battery pack and extend the life of the batteries:

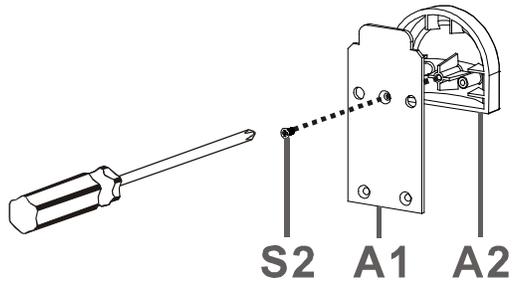
1. Keep at least 20cm (8 inches) clearance from the rear panel of the battery pack from the wall or other obstructions.
2. Do not block the air-flow to the ventilation openings of the unit.
3. Ensure the installation site environmental conditions are in accordance with the battery pack working specifications to avoid overheat and excessive moisture.
4. Do not place the battery pack in a dusty or corrosive environment or near any flammable objects.
5. This battery pack is not designed for outdoor use.



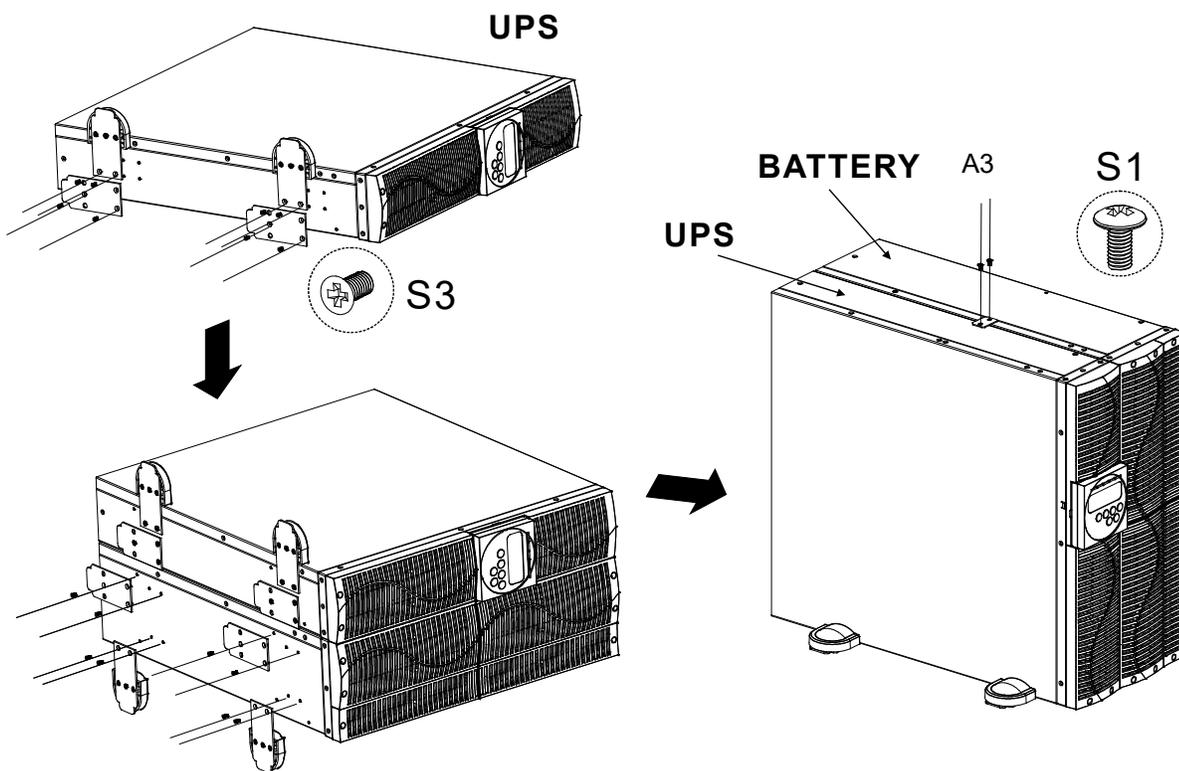
3.3. Installation of Rack/Tower kits

3.3.1. Tower Installation – Combined with UPS

STEP 1

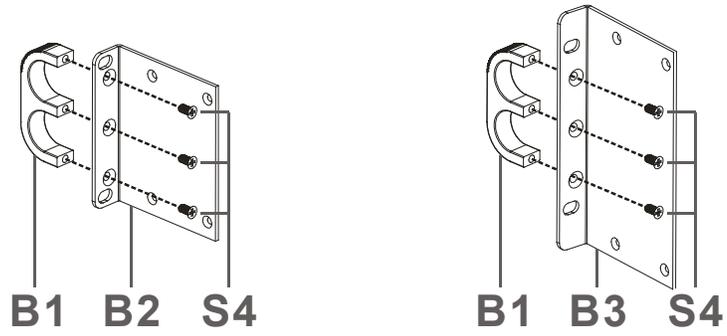


STEP 2

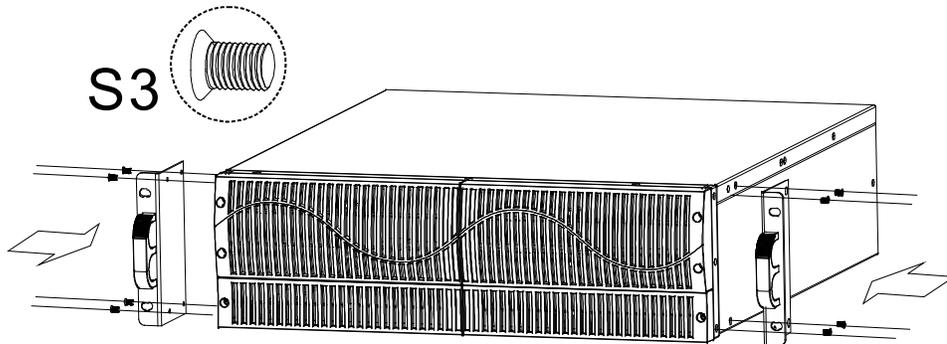


3.3.2. Rack Mount installation

STEP 1

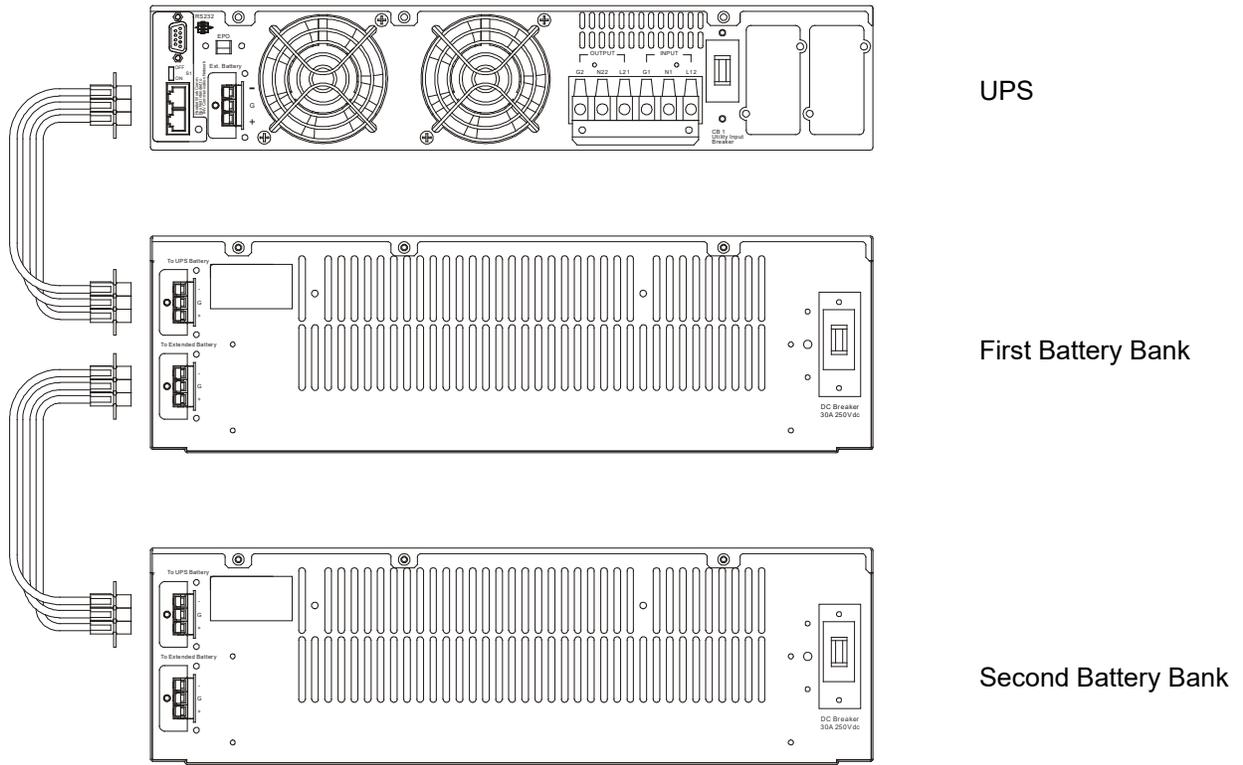


STEP 2

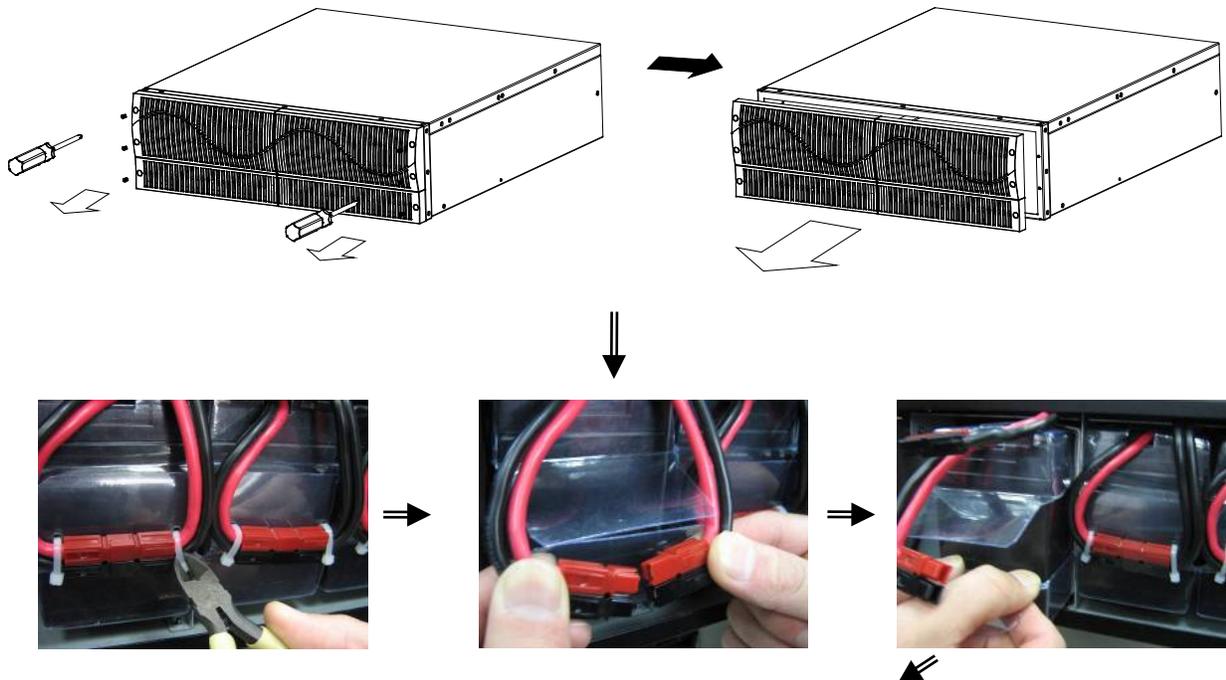


3.4. Installation Procedure

STEP 1



STEP 2



4. Batteries

4.1. Battery Pack Discharge Times

Table 1 Continuity 6K – 7Ah/12V (x 20pcs)

Load (W)	1x BP Continuity 6K	2x BP Continuity 6K	3x BP Continuity 6K	4x BP Continuity 6K
1080	0:42:48	1:30:56	2:16:25	3:01:53
1620	0:25:48	1:03:30	1:41:13	2:14:57
2700	0:12:26	0:41:53	1:02:50	1:29:01
3780	0:08:30	0:25:24	0:46:53	1:02:30
4320	0:07:06	0:17:20	0:41:36	0:55:28
5400	0:04:57	0:14:09	0:27:35	0:45:16

Table 2 Continuity 10K – 9Ah/12V (x 20pcs)

Load (W)	1x BP Continuity 10K	2x BP Continuity 10K	3x BP Continuity 10K	4x BP Continuity 10K
1800	0:30:33	1:15:11	1:59:50	2:39:46
2700	0:16:50	0:53:52	1:20:47	1:54:27
3600	0:12:27	0:41:58	1:02:56	1:29:10
4500	0:10:12	0:27:55	0:51:33	1:08:44
6300	0:06:28	0:15:46	0:30:45	0:50:28
7200	0:04:52	0:13:55	0:27:09	0:44:33

4.2. Storage Instruction

For extended storage in a moderate climate (-5 to +30 °C / 23 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 at higher temperatures (+30 to +45 °C / +86 to +113 °F). Do not store batteries under conditions that are outside of this range.

4.3. Recycling Used Batteries



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

5. Specification

UPS	Continuity 6000VA	Continuity 10000VA
Battery Pack Model	BP Continuity 6K	BP Continuity 10K
Part Number	0320007-001	0320008-001
Nominal System Voltage	240VDC	240VDC
Dimensions W x D x H, mm		
Unit	440 x 680 x 132	
Shipping	560 x 804 x 272	
Weight, kg		
Unit	54.2	65.2
Shipping	57.2	68.2

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