

Alpha Micro 100 UPS

Installation Instructions for Optional Heater Pad

This document explains how to install an optional heater pad into the Alpha Micro 100 UPS. The heater pad is designed to keep the battery temperature within the operating range during freezing ambient conditions.



WARNING!

The heater pad must be installed by technicians trained in the safe use of high-energy power supplies and batteries. All wiring connections must be made according to applicable electrical codes.

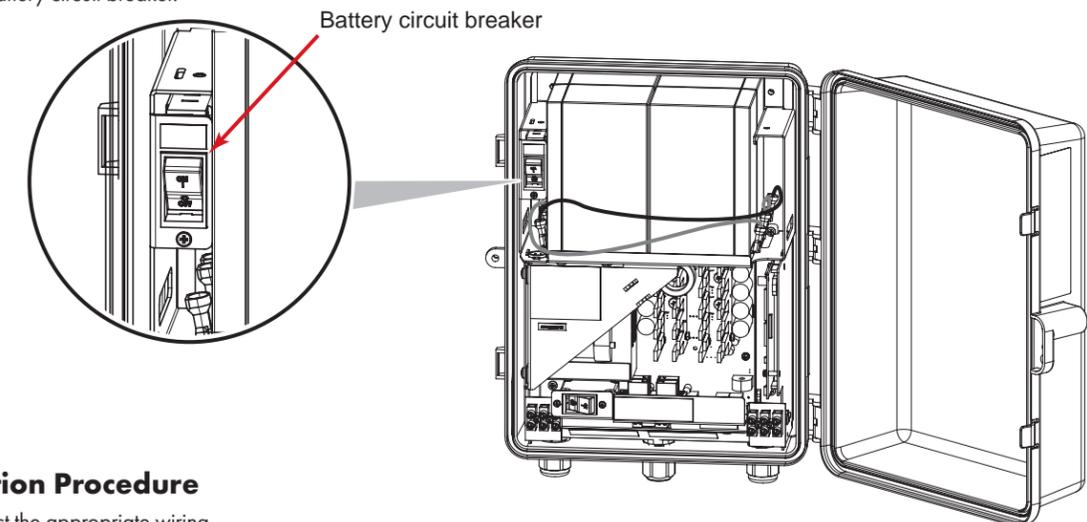
Where necessary, Use proper lockout/tag out procedure to prevent shock hazard.

Switch off Line power to UPS and switch off loads

1. Switch off the external circuit breaker supplying line power to the UPS. The UPS goes into the inverter mode where the AC output is still energized. **NOTE:** A shock hazard exists if the UPS door is opened.
2. Switch off the power to the loads, but do not disconnect the load wires as they are still live.

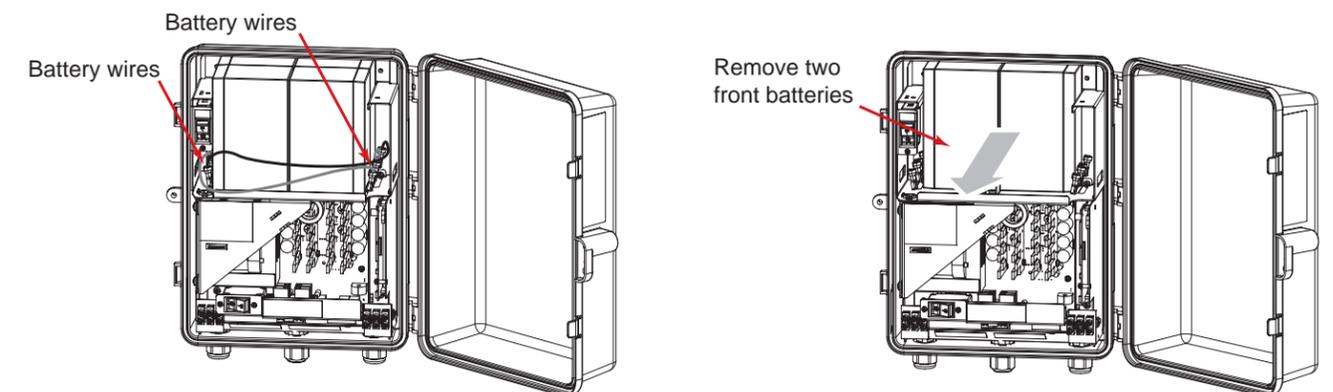
Open front door, switch off UPS

1. Open UPS front door.
2. Turn off battery circuit breaker.

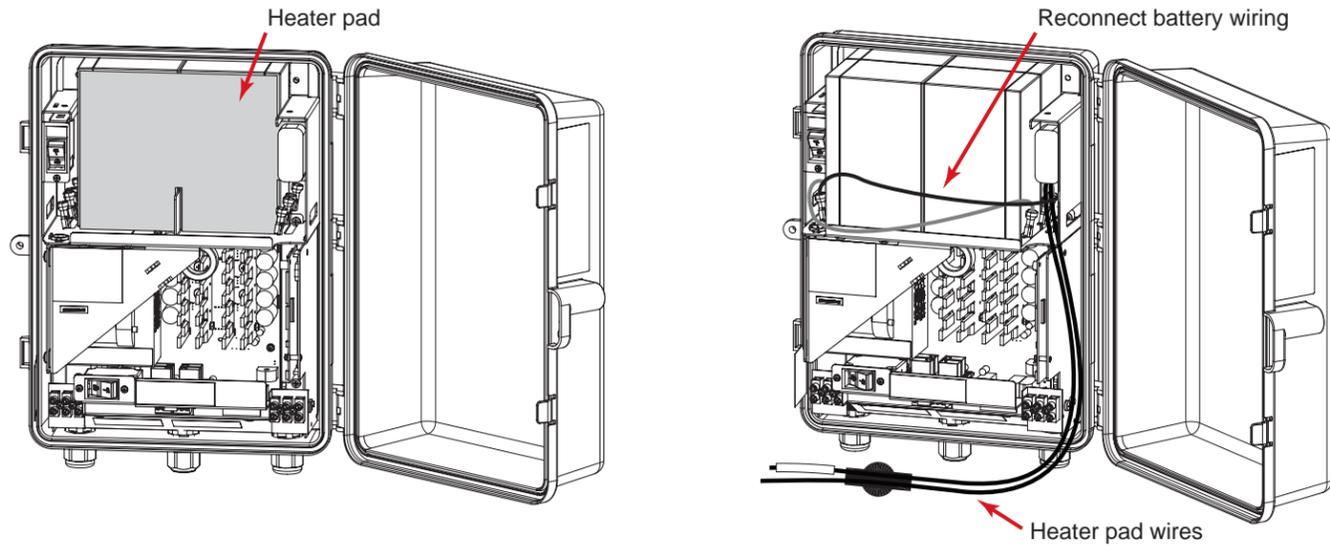


Installation Procedure

1. Disconnect the appropriate wiring.
2. Remove both front batteries

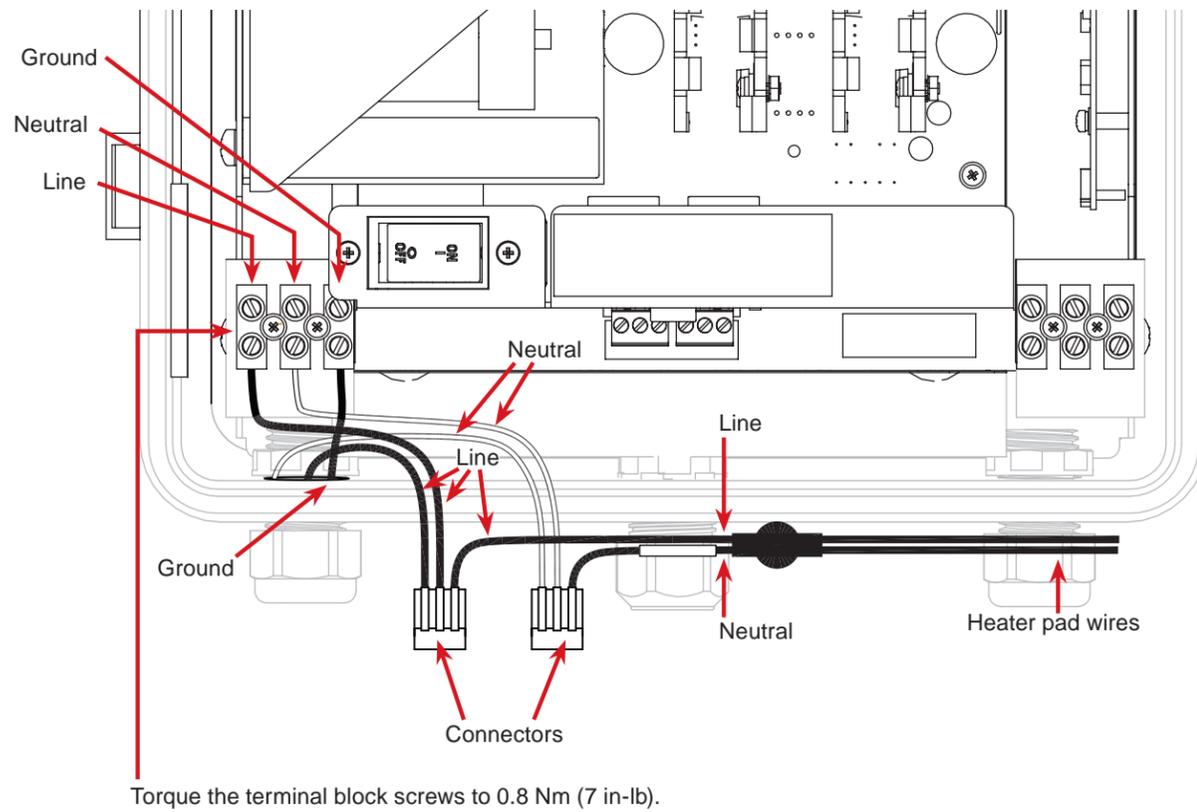


3. Install the heater pad. Place the heater pad against both rear batteries.
4. Re-install both front batteries.
5. Reconnect battery wiring.

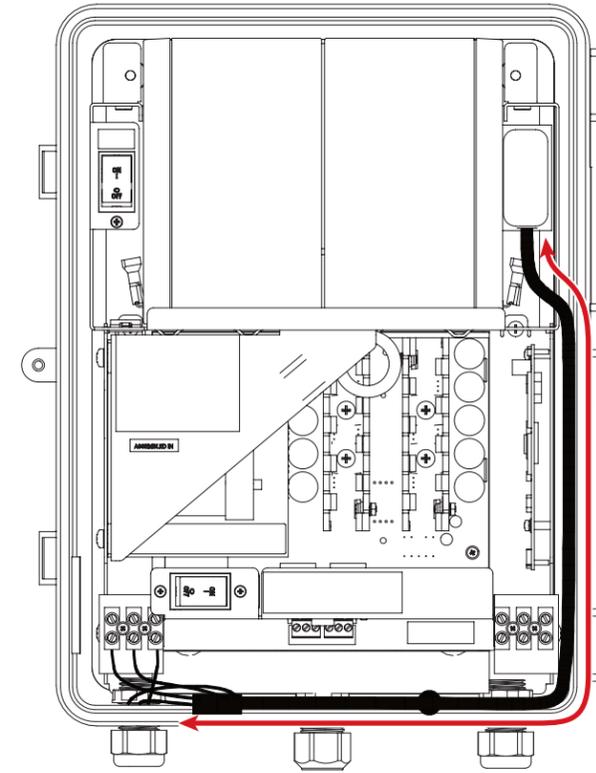


Connect Heater Pad Wiring

1. Connect the heater pad wiring according to the wiring diagram shown below.
2. Use the supplied connectors and wires.
3. Lift the levers on the connectors to insert the wires, then push down on the levers to lock the wires into place.



4. Route cord along inside perimeter of enclosure as shown. Gently push wire connections inside bottom of UPS. Ensure the door does not pinch the wires.



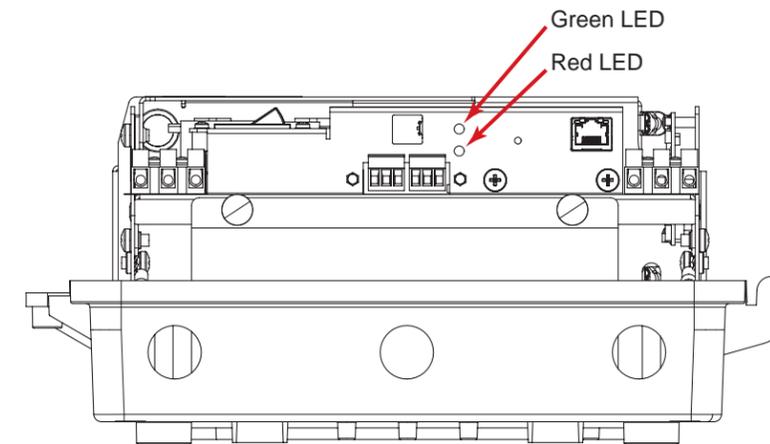
Switch on Line Power



NOTE:

Check battery polarity and check battery voltage to be within acceptable range before turning ON the battery breaker.

1. Turn on battery circuit breaker.
2. Switch on the Line power to the UPS.
3. Verify that the green LED on the rail next to the dry contacts is illuminated if the unit is in Line mode, or flashing if the unit is in the Battery mode. If the red LED is illuminated or flashing, the unit is malfunctioning.



4. Close UPS front door