

# QUICK START GUIDE

## eBoost Battery



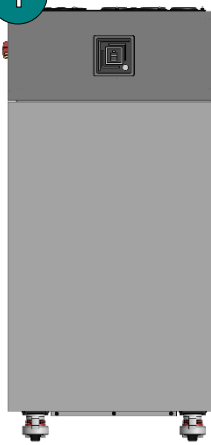
Read this entire document, in addition to the Installation Manual, before installing or using eBoost Battery. Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or can damage eBoost, potentially rendering it inoperable.

### After Unboxing

Before starting up the battery for the first time ensure the following:

- ✓ The system inverter/equipment is De-energized
- ✓ eBoost is turned off (LEDs off)
- ✓ eWay disconnect is in the "Off" position

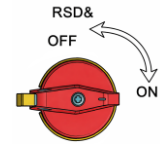
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### Pre-startup

a. Assemble eWay with battery module

b. Turn on the disconnect switch.



c. Press and hold the push button on the battery module for ~5 seconds (wait for the front LED to Turn on)



d. Verify Voltage is above 48V using a multimeter. If Voltage is below 48V, contact tech support

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### Inverter Protocol Selection

- a. Select the correct inverter protocol by pressing and holding the power button for 5 seconds then releasing.
- b. The LED will blink and indicate the protocol. During this phase press the button to select the inverter protocol.
- c. Once you have reached the correct protocol, leave it untouched until the indicator lights stop blinking.
- d. **Turn off Battery.** Do this by long pressing the power button until the power down sequence begins. Measure voltage at the busbar to confirm battery is off.



**FORTRESS POWER (Default), SOL-ARK, APSYSTEMS, SCHNEIDER, GROWATT, HOYMILES**

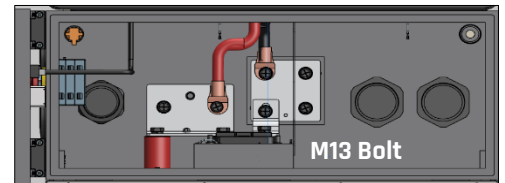
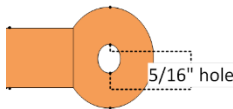


VICTRON

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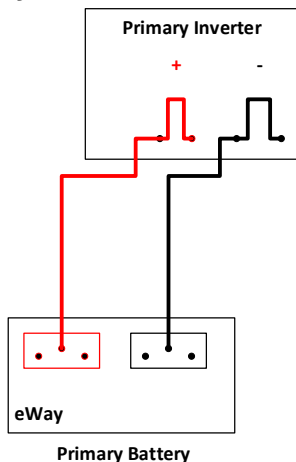
### Electrical Cable requirements

Inverter	Cable Size	Rated Cable Voltage	Qty	eWay Busbar Torque Specifications
ENVY 12kW- Envy Duo- 21kW	Up to 3/0 MTW	600(V)	1-2 pair per eWay	7.37-8.85lbf-ft (10-12) Nm
ENVY-10kW ENVY-8kW	Up to 3/0 MTW			
Solo-6.5kW	2/0 MTW	1 pair per eWay		
<b>eWay-eWay</b>	Up to 3/0 MTW			

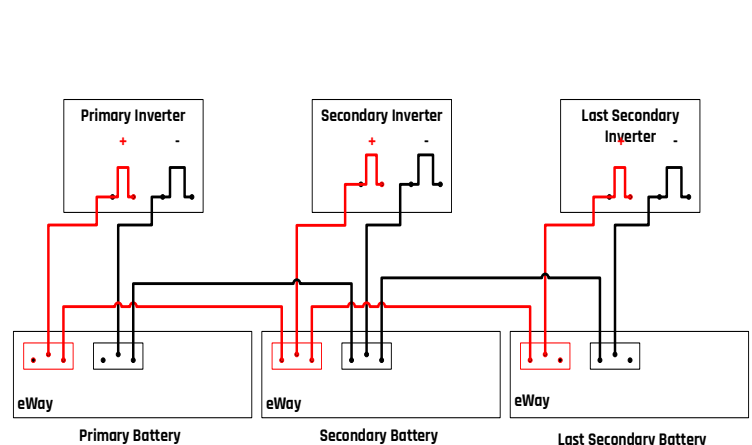


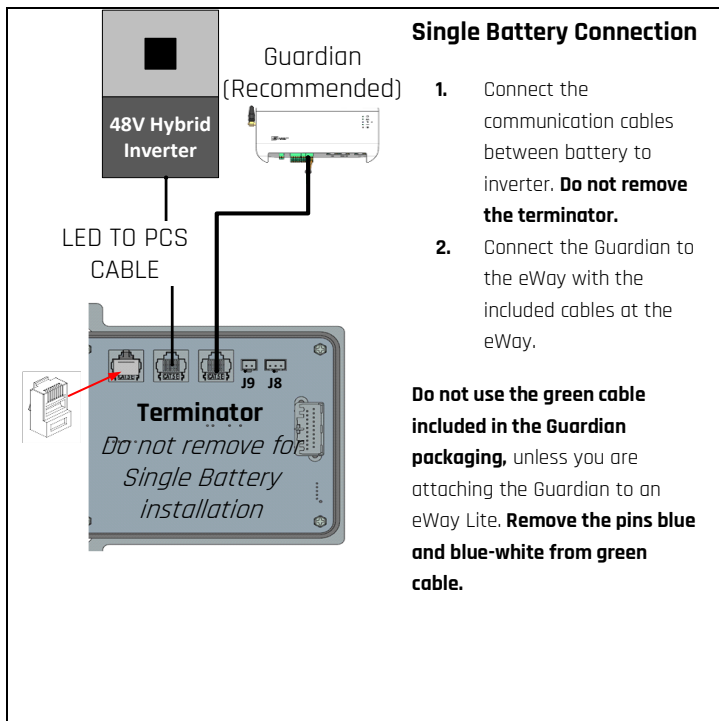
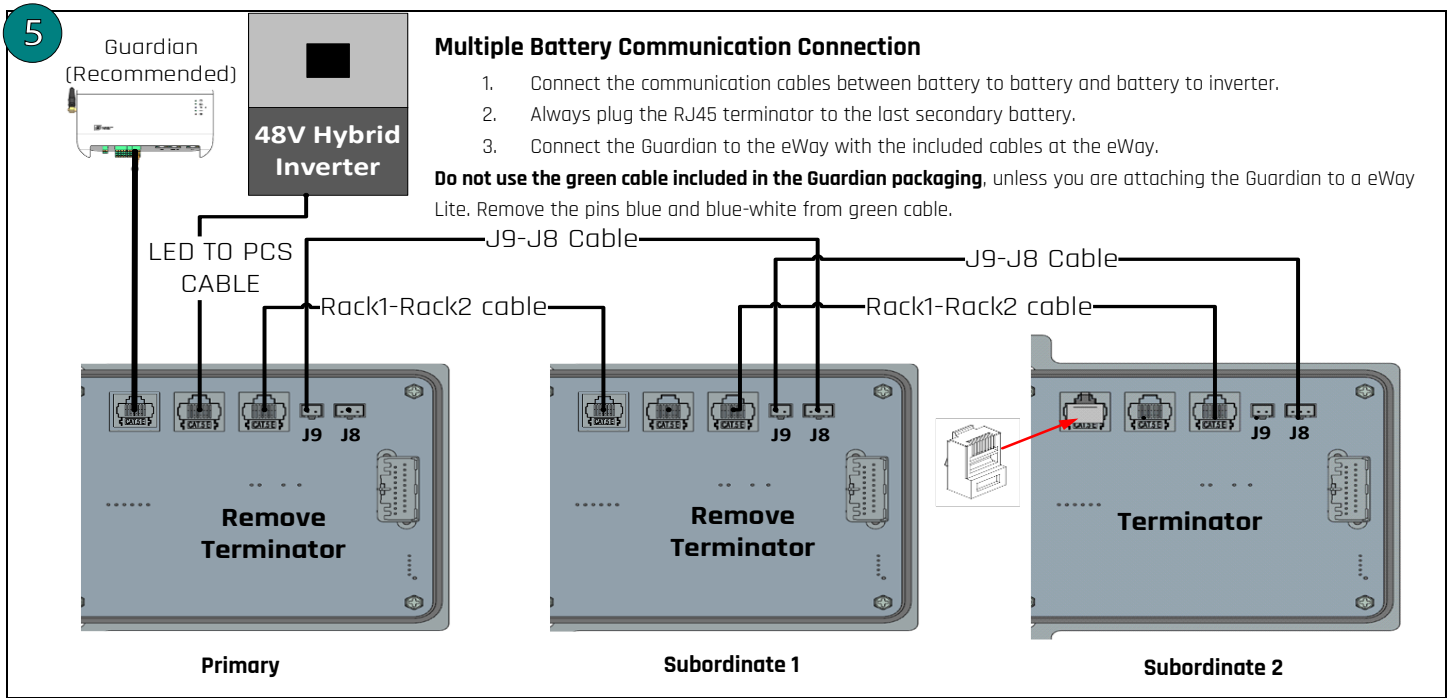
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### Single Battery Electrical Connection

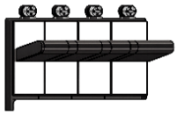
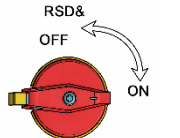




### Electrical Connection in Parallel





**6 Commissioning**

- a. Turn all DC breakers on: Battery breaker at the inverter, Charge controller breaker.
 
- b. Turn all eBoost disconnects to the On Position.
 
- c. Power the primary battery Only by pushing the button for 2 seconds. If in parallel and connected correctly, all other batteries should turn on.
 
- d. Confirm the status indicator on the back of all batteries is white.
 

**7 Recommended Closed Loop Settings**

For Envy Inverter, select Protocol **Lithium 18**

PARAMETER	SELF CONSUMPTION OR OFFGRID	BACKUP
On grid Cutoff	30%	95%
Offgrid Cutoff	20%	20%
Gen Start SOC	25%	25%
AC Charge (if enabled)	30%	80%
Equalization	None	
Other setting for closed and open loop		
Charge current per battery: <b>180A</b>	Communication: <b>CAN</b>	
Discharge current per battery: <b>250A</b>	Internal Battery Resistance: <b>5mΩ</b>	
Capacity per battery: <b>314ah</b>	Max Altitude: <b>9842.51 ft. (3000m)</b>	

**Recommended Open Loop Settings**

PARAMETER	SELF CONSUMPTION OR OFFGRID	BACKUP
Ongrid derate voltage	<b>51.5V</b>	<b>53.8V</b>
On grid Cutoff	<b>51.2V</b>	<b>53.5V</b>
Offgrid cutoff	<b>51.2V</b>	<b>51.2V</b>
Gen start soc	<b>51.5V</b>	<b>51.5V</b>
AC Charge (if enabled)	<b>51.8V</b>	<b>53.5V</b>
Other settings		
Bulk/Absorption		<b>55.2V</b>
Float		<b>54V</b>
Equalization		<b>None</b>