Automation Systems®
AUSTRALIA

# Simplified Installation Guide for Lithium Smart Premier Solar System Assembly



This installation takes place after the gate automation has been installed and Is ready for initial power up.

**ALWAYS reference your complete installation manual for travel time calibration limit switches etc.**

**DO NOT SKIP STEP 5 of this manual**
**Failure will cause batteries damage**

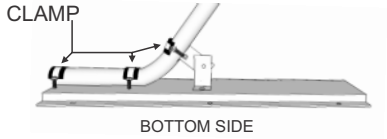
Download the **Victron Connect** APP from the App Store/Play Store on your mobile device.

Get it on Google Play

Download on the App Store

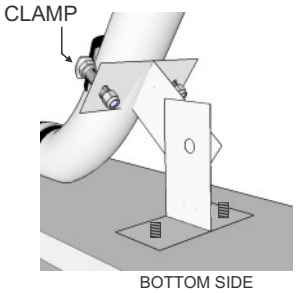
View all resources and apps from the Victron website

# Step 1: Solar Panel Assembly




1. Install the curved end of the post to the narrow plate using the supplied pipe clamps, nuts, bolts and washers.

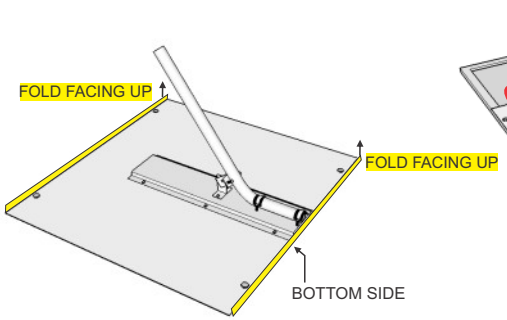
The bolt head should be on the bottom side with the threads facing upwards.




2. Install one T Section to the narrow plate, The bolt head should be on the bottom side with the threads facing upwards.

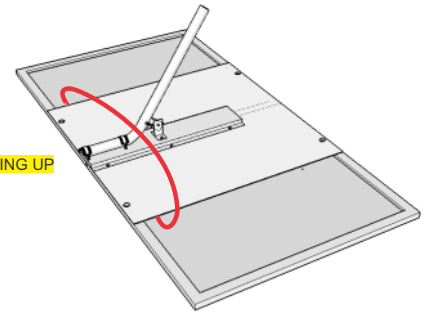
Install the other T Section and the other to the round post.

To install to the round post use another supplied pipe clamp



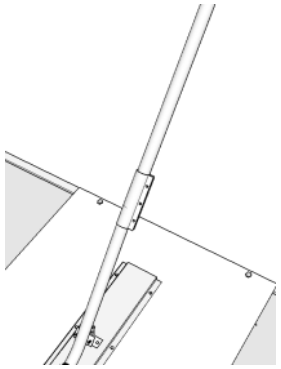

3. Install the larger plate to the narrow plate. The Fold of the plate should be facing upwards.

The bolt head should be on the bottom side with the threads facing upwards.



4. Install the solar panel to the large plate, the linking cable will remain on the outside, the large plate will slide within the loop.

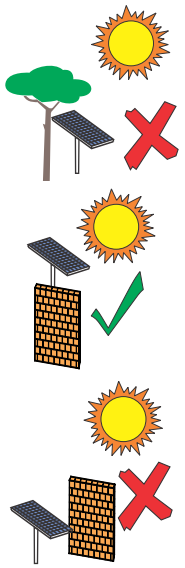
In this step ONLY the bolt head should be on the top side with the threads facing towards the solar panel.



5. Install the extension band and extension post



6. Install to fence post or pier using the supplied pipe clamps.



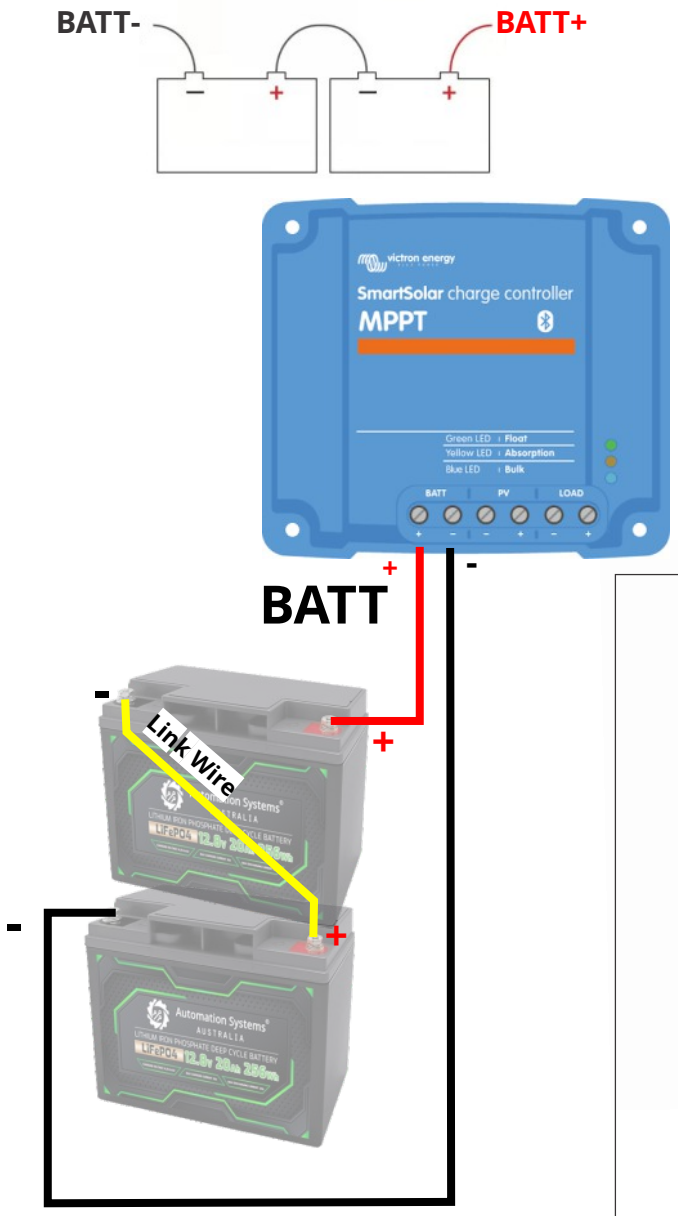
1. A solar panel CANNOT be installed under a tree, it requires sun to charge and maintain the batteries.

2. A solar system is often maintenance free BUT the batteries may require a external charge in the winter months due to lack of sun (rare).

3. Constantly powered accessories such as wired keypads will increase the standby current draw, solar panel or battery upgrades

## Step 2: Battery Installation

Batteries wired in series ONE BATTERY SITS ON TOP OF THE OTHER. The charge controller will sit beside the bottom battery on its side at the end of installation.






**Final Fit Out**

Charge controller placed at the bottom of box and the two batteries are stacked.

## Step 3: Solar Panel Connection

Solar Panel connects into the Solar Panel connection port on the regulator.

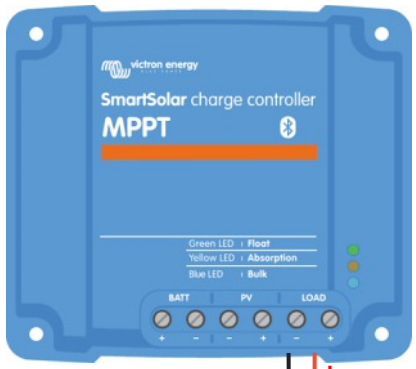
Pass the cable through the bottom of the plastic box first as the regulator will be placed within the enclosure.

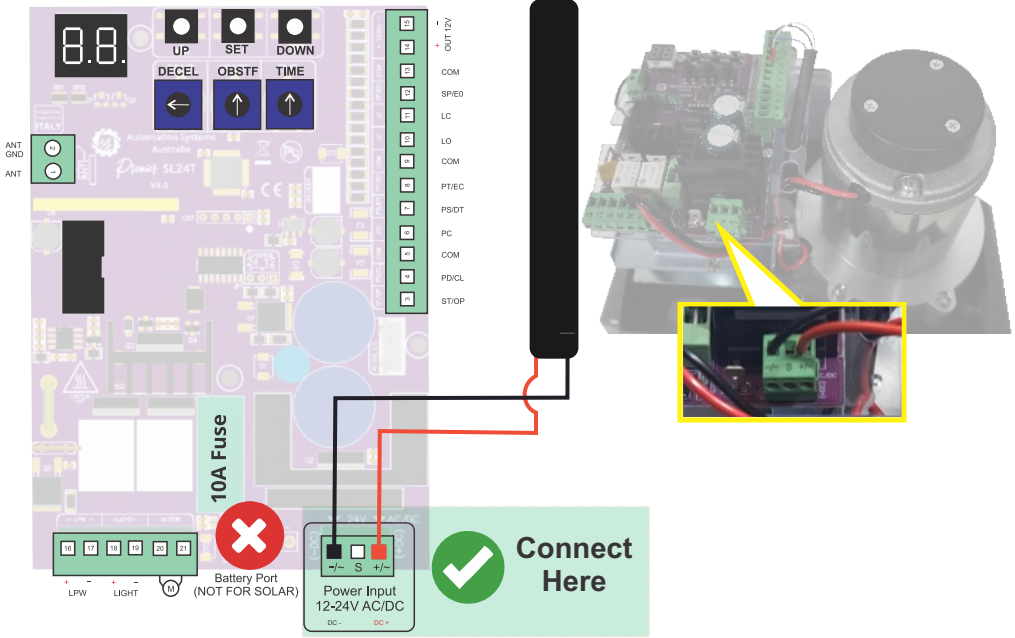


## Step 4: Connection to the gate control board (more diagrams next page)

Pass the cable through a cable gland of the sliding gate motor first then through a cable gland at the bottom of the premier plastic box.

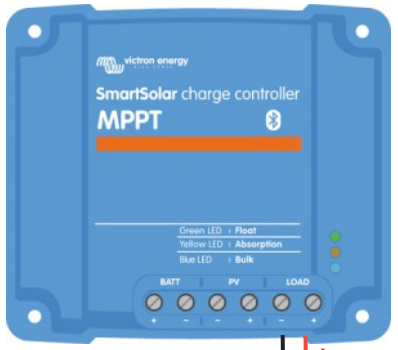
# TITAN2410 (SL24T)

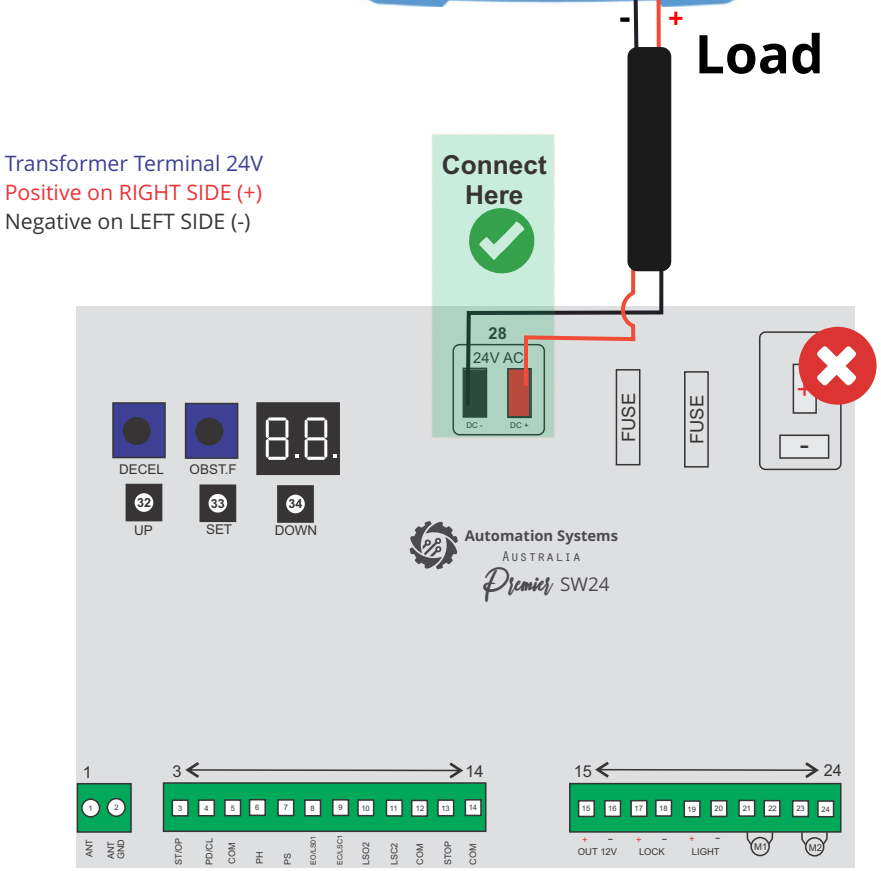


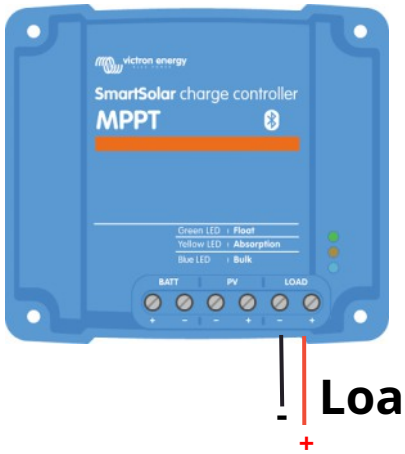




Transformer Terminal 24V
Positive on RIGHT SIDE (+)
Negative on LEFT SIDE (-)

# SWING GATE (PREMIER SW24)

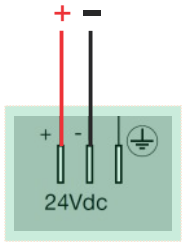


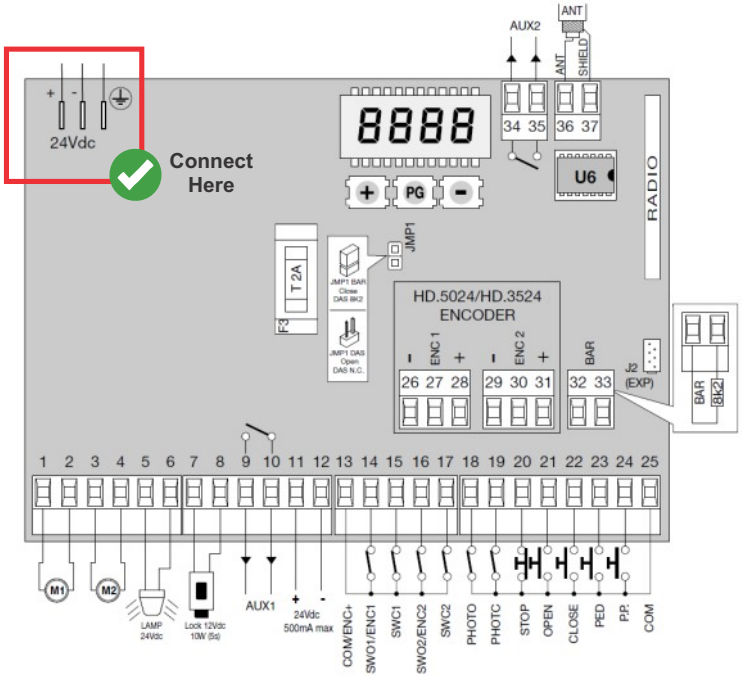



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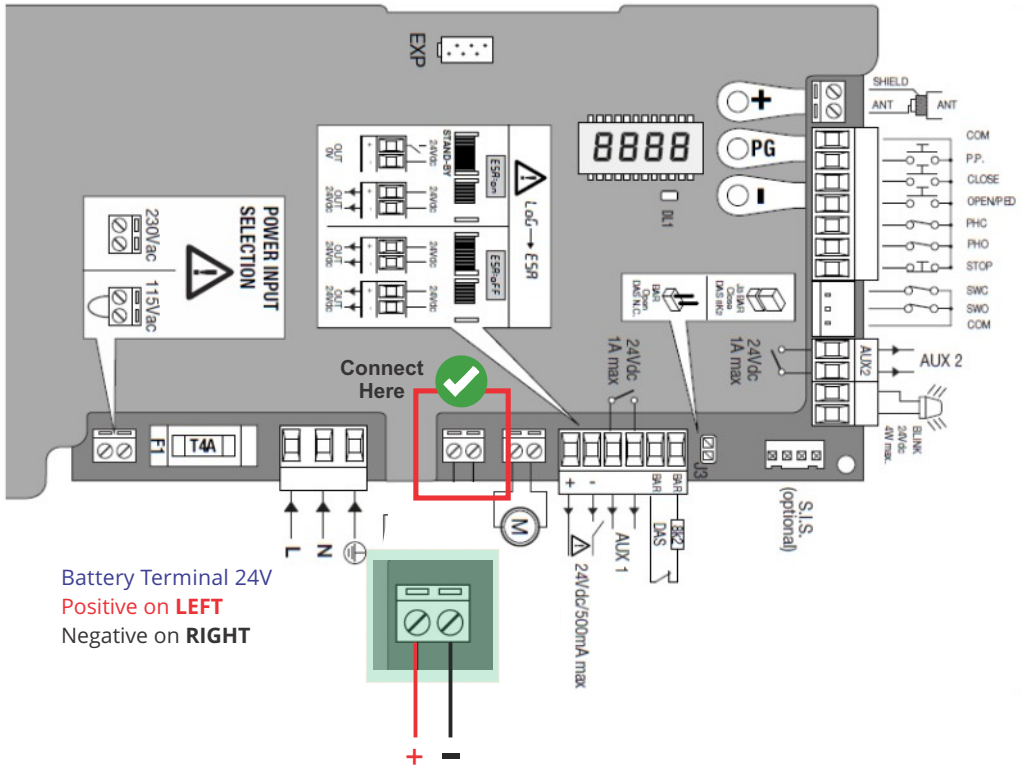
## BRAINY24 PLUS




Transformer Terminal 24V
Positive on **LEFT**
Negative on **RIGHT**

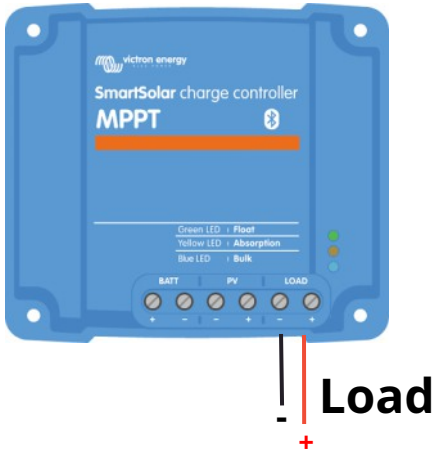


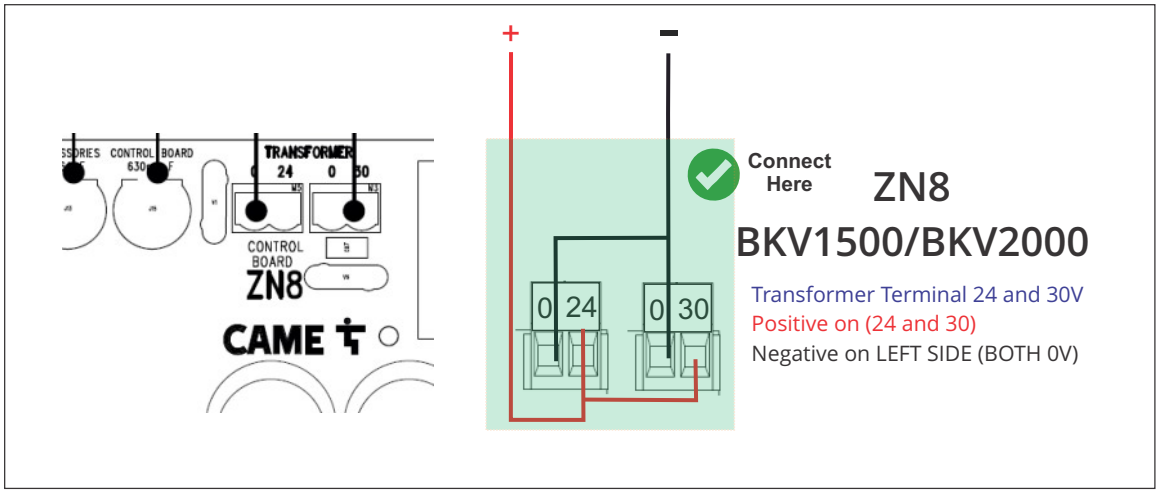

## Bull Operators




Battery Terminal 24V
Positive on **LEFT**
Negative on **RIGHT**

CAME



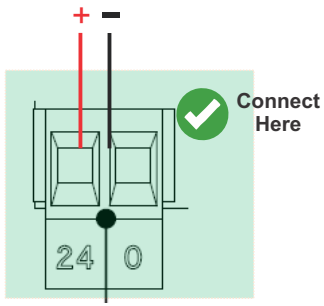




ZN8

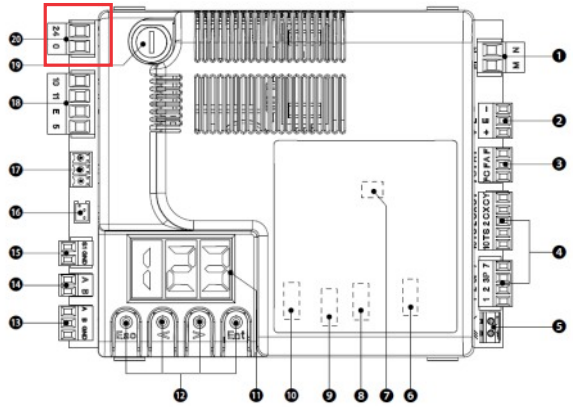
BKV1500/BKV2000

Transformer Terminal 24 and 30V
Positive on (24 and 30)
Negative on LEFT SIDE (BOTH 0V)

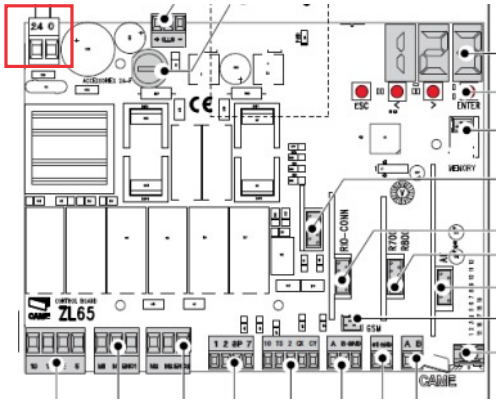
Transformer Terminal 24V
Positive on (24)
Negative on (0V)



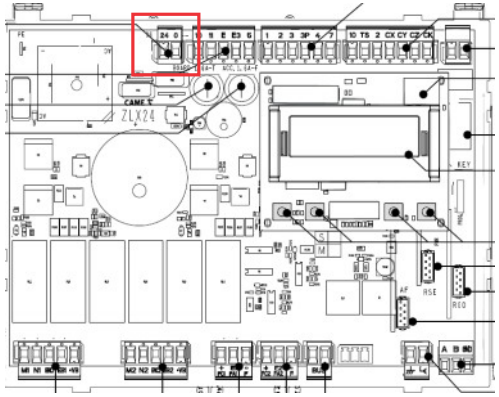

BXV



ZI65



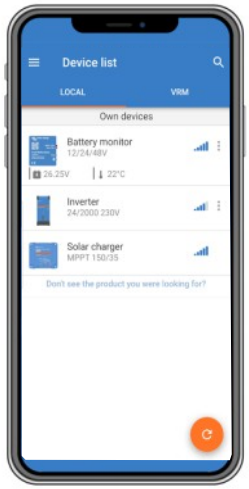

ZLX24



## Step 5: Charge Controller Setup

**CRITICAL STEP**

**1**




The APP will auto find using bluetooth any nearby victron charge controllers. Select the 75/100 controller you installed

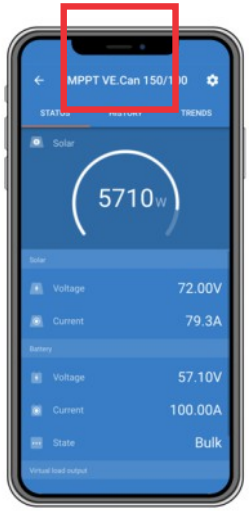
**2**




Use the PIN number on the sticker (top of controller) to connect with the device, if the PIN number is not showing it will be 000000 or 111111

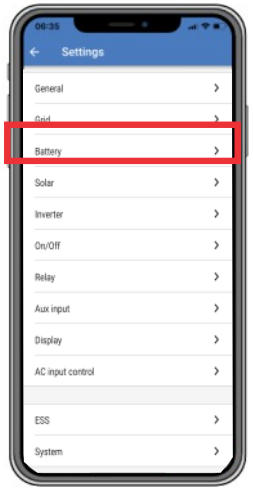


**3**



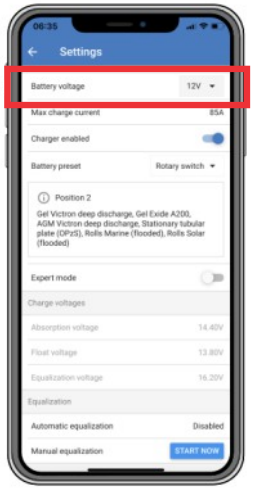

Use the **settings gear** in the top corner to navigate to settings

**4**



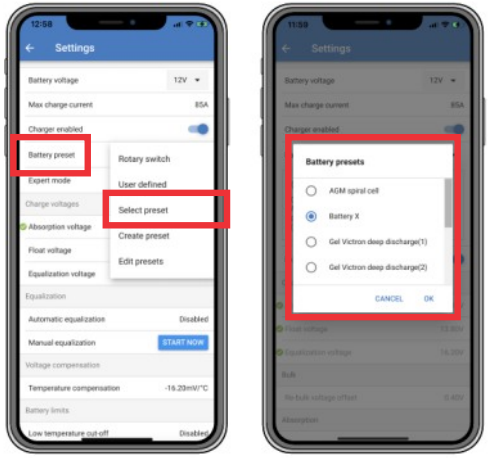

Select the **Battery** Menu

**5**




Ensure the battery voltage is set to **24V**

**6**




Go to the **Battery Pre-set** then **Select Preset**
Select **Smart Lithium (LiFePO4)**

**Do not change any other settings**