



LION ENERGY™
Your Life. Your Power. Your Way.



TRAINING 2025 SANCTUARY3 BASIC INSTALLATION

Disclaimer: This presentation is a simple aid for Sanctuary3 installers,
The full information can be found in the installation guide:

[LION – Sanctuary 3 Installation Guide and Manual 081525.pdf](#)

Useful Videos are also available to install and commission the Sanctuary3:

[Sanctuary 3 Installation & Commissioning Videos](#)

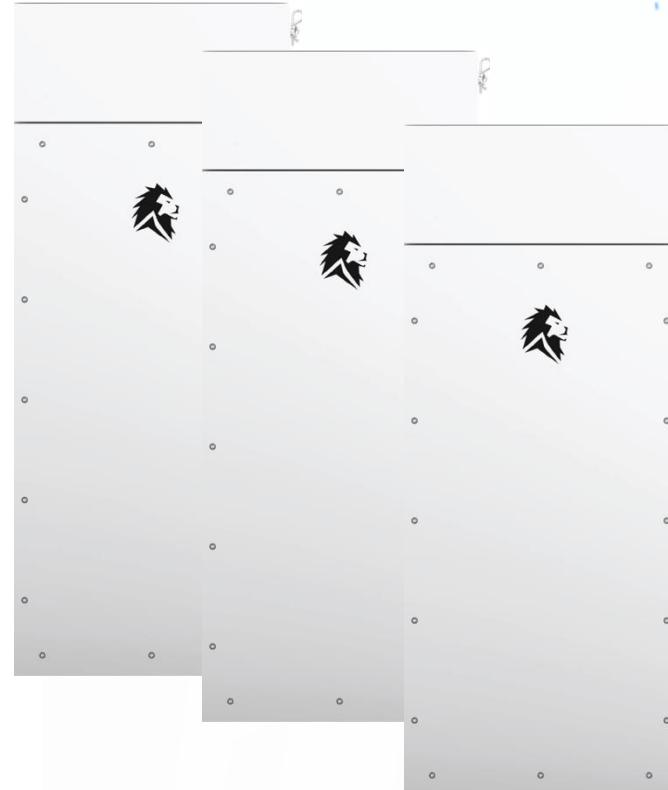
- 01.** Sanctuary 3 (1i-3b) Installation
- 02.** Sanctuary 3 (1i-3b) Full Home backup wiring
- 03.** Sanctuary 3 (1i-3b) Critical Load backup wiring
- 04.** Sanctuary 3 Rev#, Model, SKU
- 05.** Sanctuary 3 Commissioning



Sanctuary 3 (1i-3b) Installation

Sanctuary3 (1i-3b) Installation

(1 inverter - 3 Batteries)



**Parts and Components
Delivered with Inverter
and Battery detail:**

**SANCTUARY INSTALLATION
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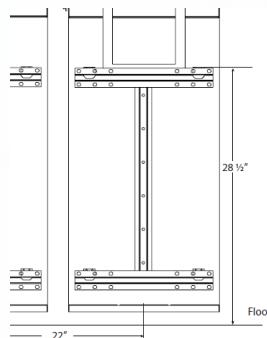


Step 1: Install the battery brackets

With 22" Spacing between brackets

(22" spacing to guarantee 2.6" on each side for access to open and close the latching wirebox; 1" minimum on the non-latch side (wall or barrier)

22 "



Spacing and brackets
installation details:

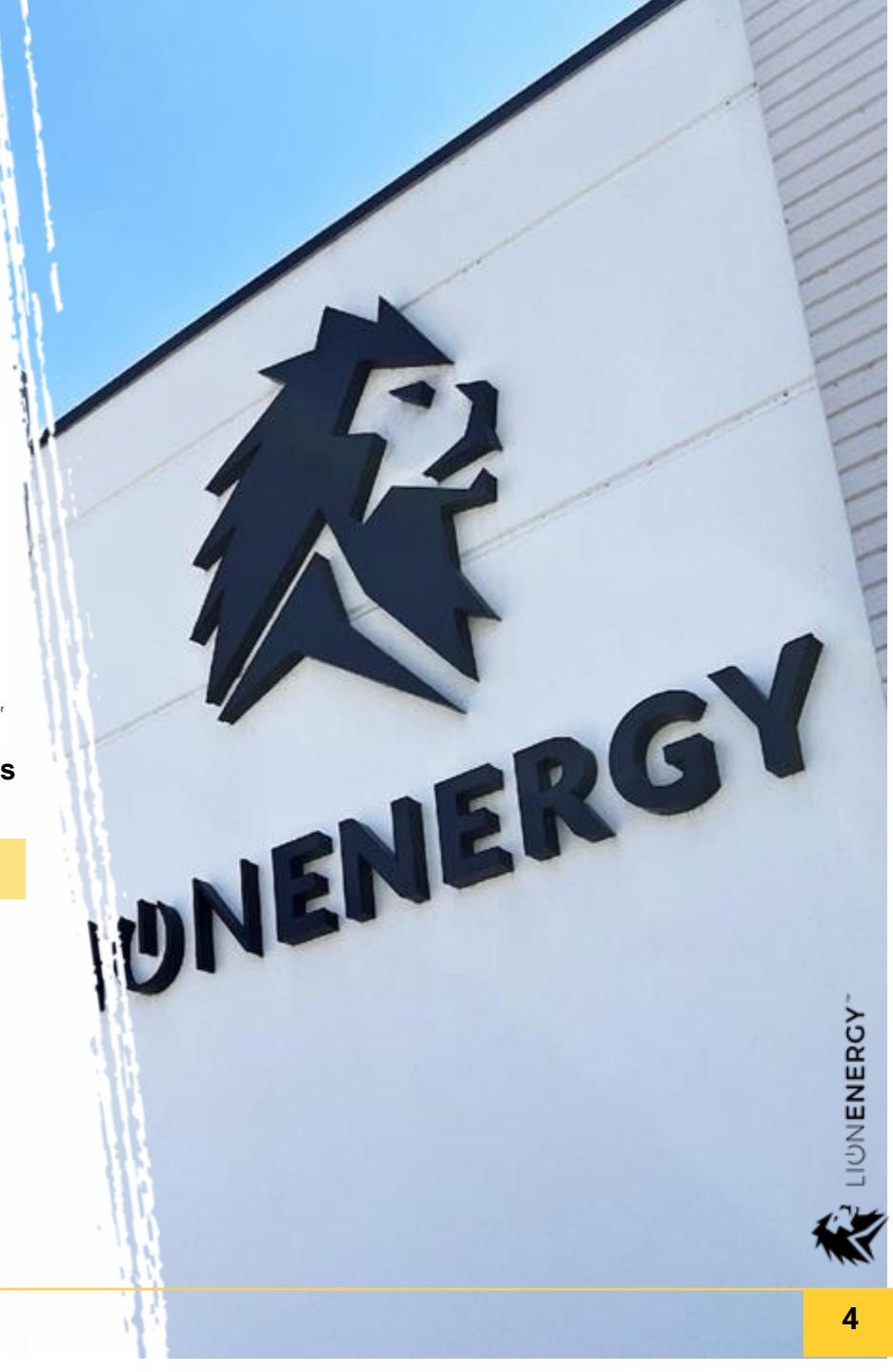
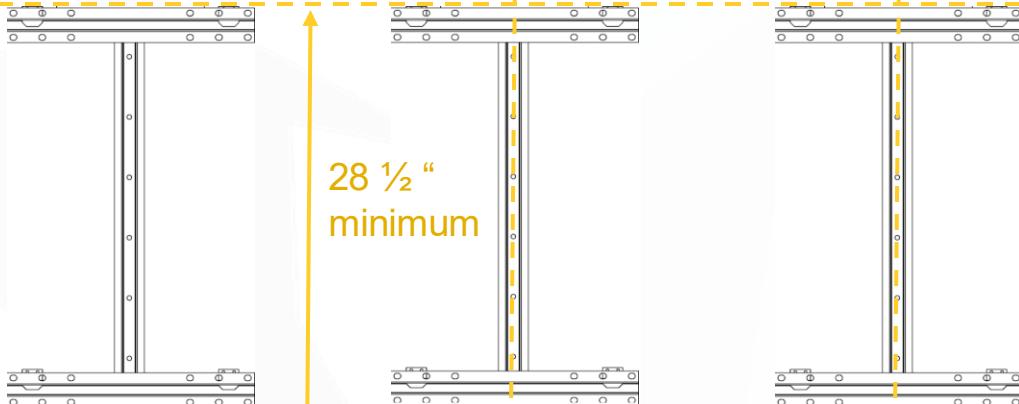
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At the same height: 28 1/2 " minimum from the ground

(28 1/2 " from the ground to guarantee battery at least 0.5" off the ground)

28 1/2 "
minimum

GROUND



Step 2: Install the Inverter bracket

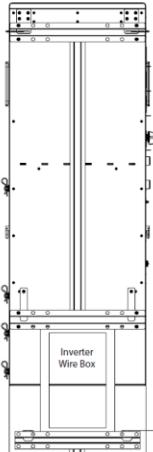
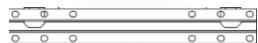
2- Place the Inverter bracket
on top of the spacer

(easy to position and center)



1- Use the spacer provided

(to easily set up the
inverter bracket)



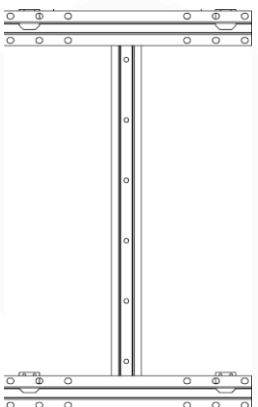
Spacing and brackets
installation details:

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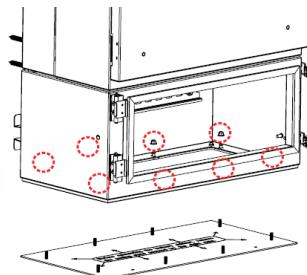


Step 3: Install the central system

1- Remove the wiring box before placing the battery on the bracket



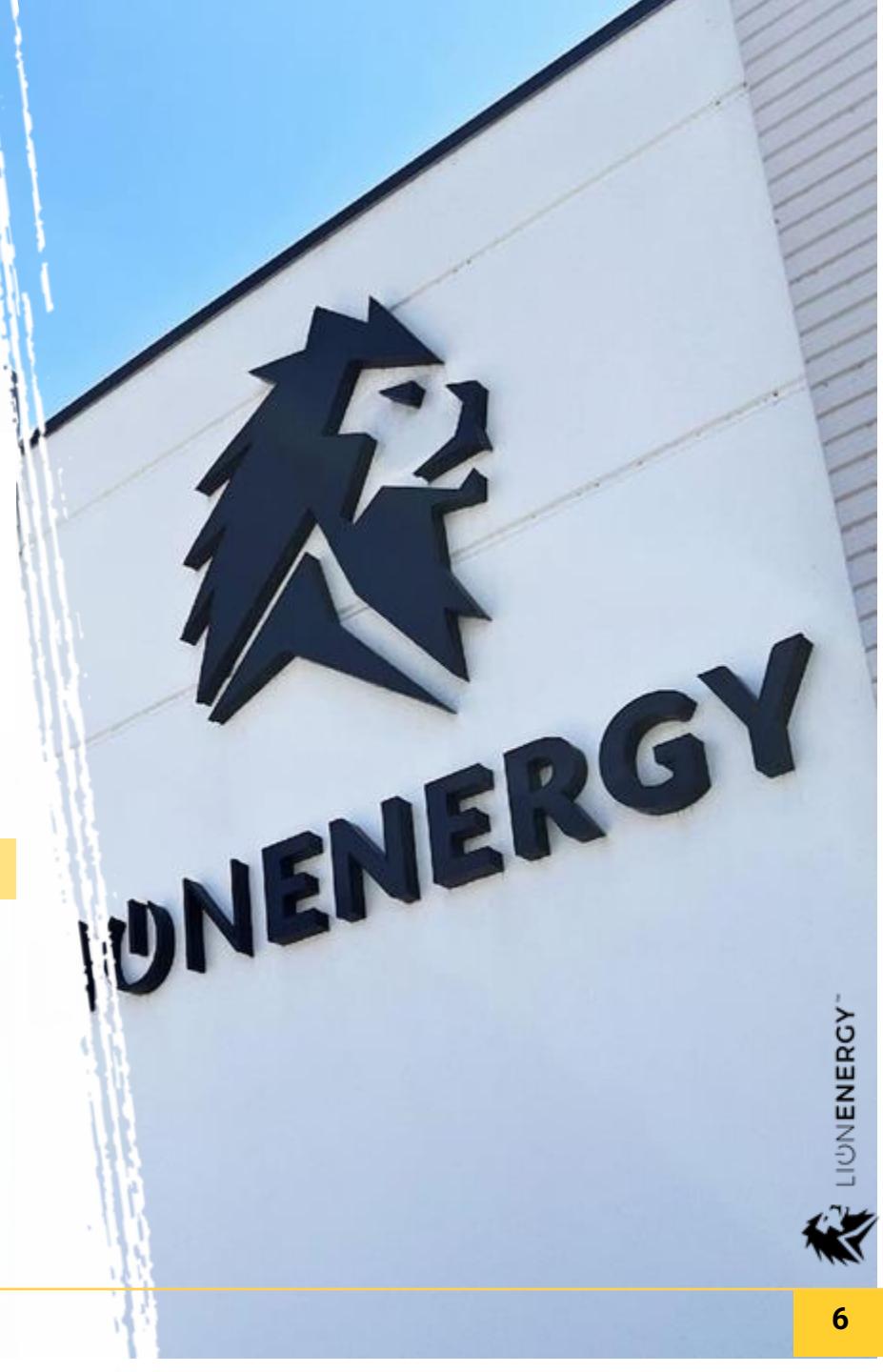
2- Remove the inverter wiring box cover before placing the Inverter on the bracket



Wire Box
installation details:

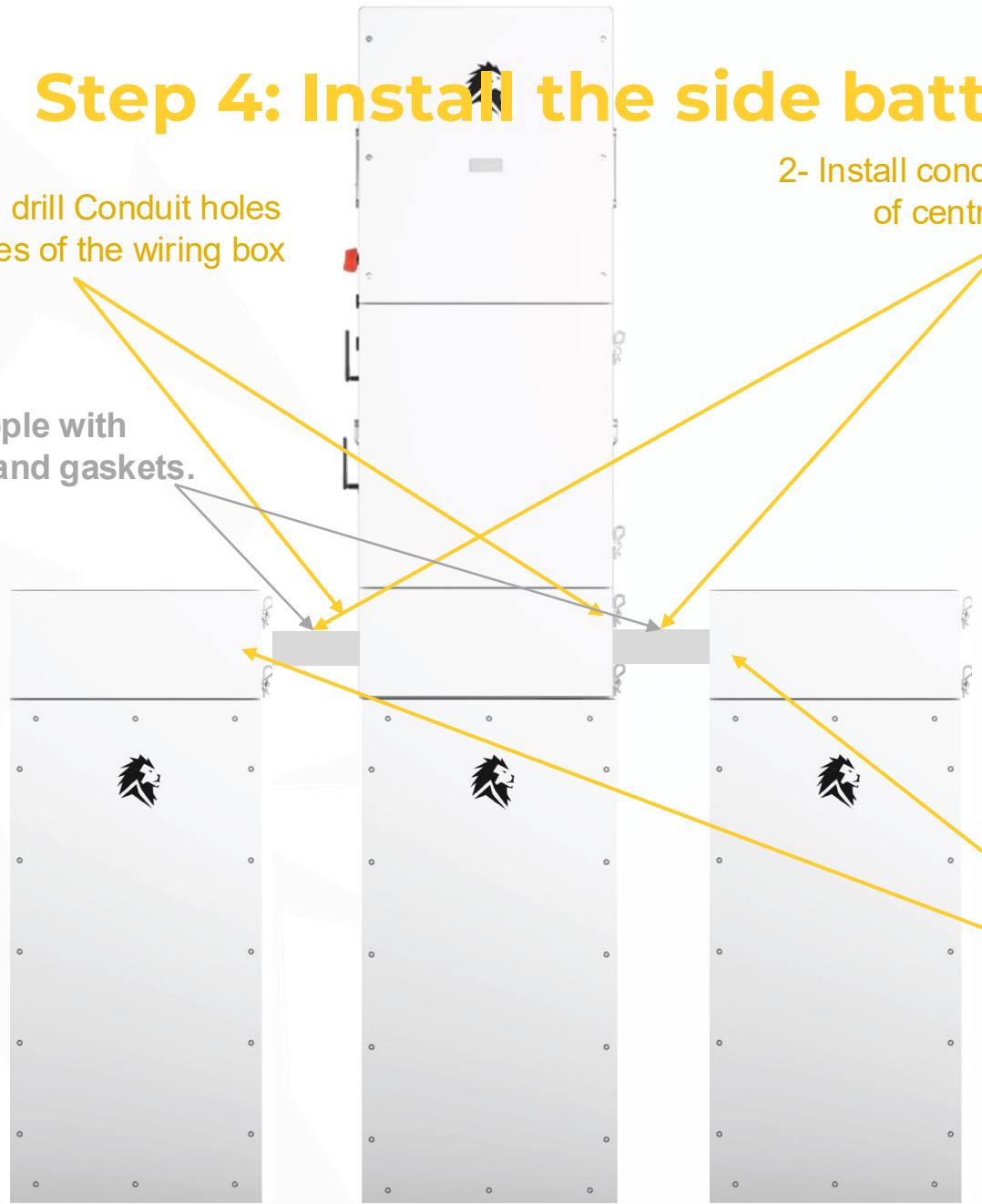
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[Video](#)



Step 4: Install the side batteries

1- Mark and drill Conduit holes
On both sides of the wiring box

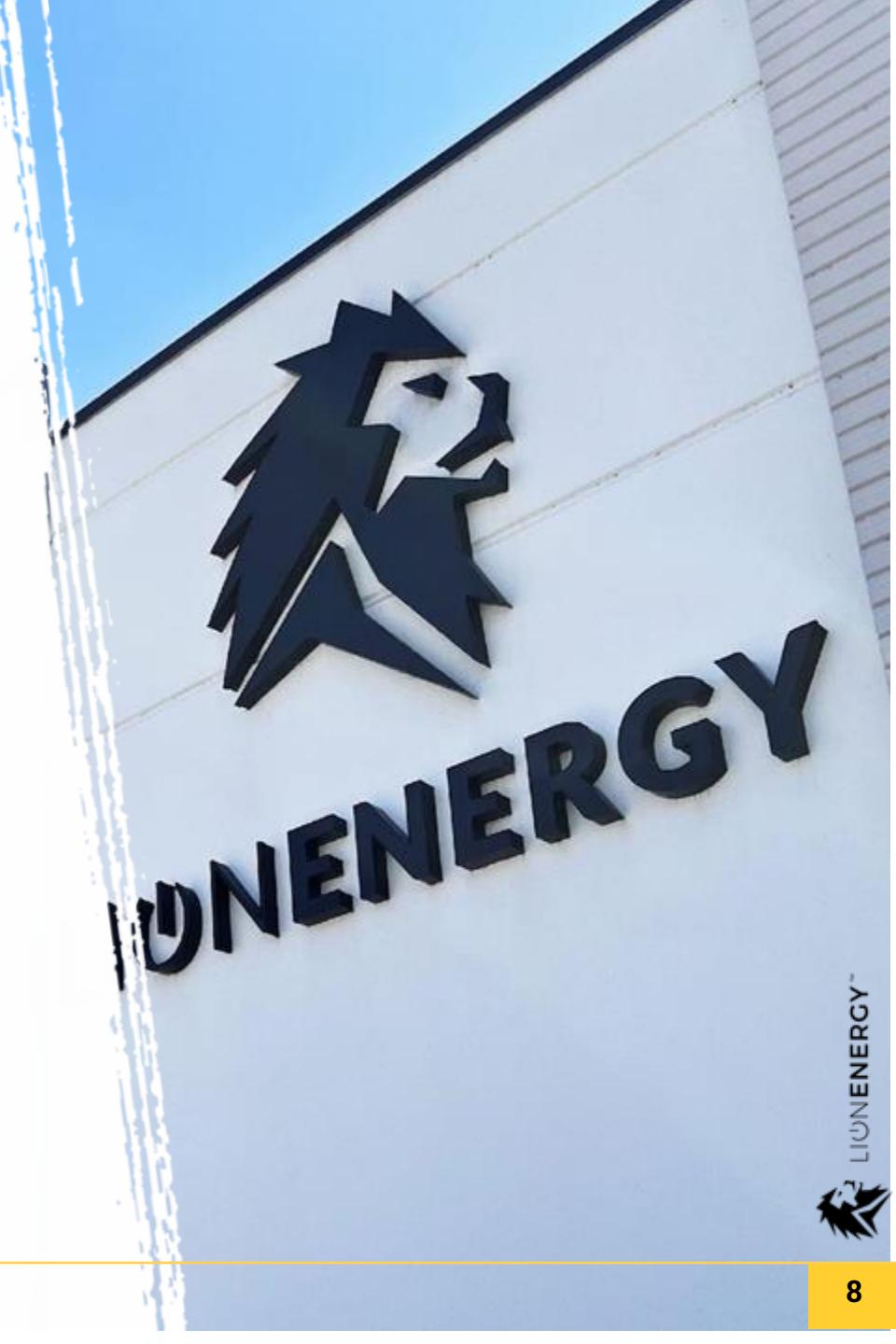


2- Install conduits on each side
of central wire box

3- Mark and drill Conduit
holes on both battery
wiring boxes and install
batteries on brackets



You're now ready for the wiring

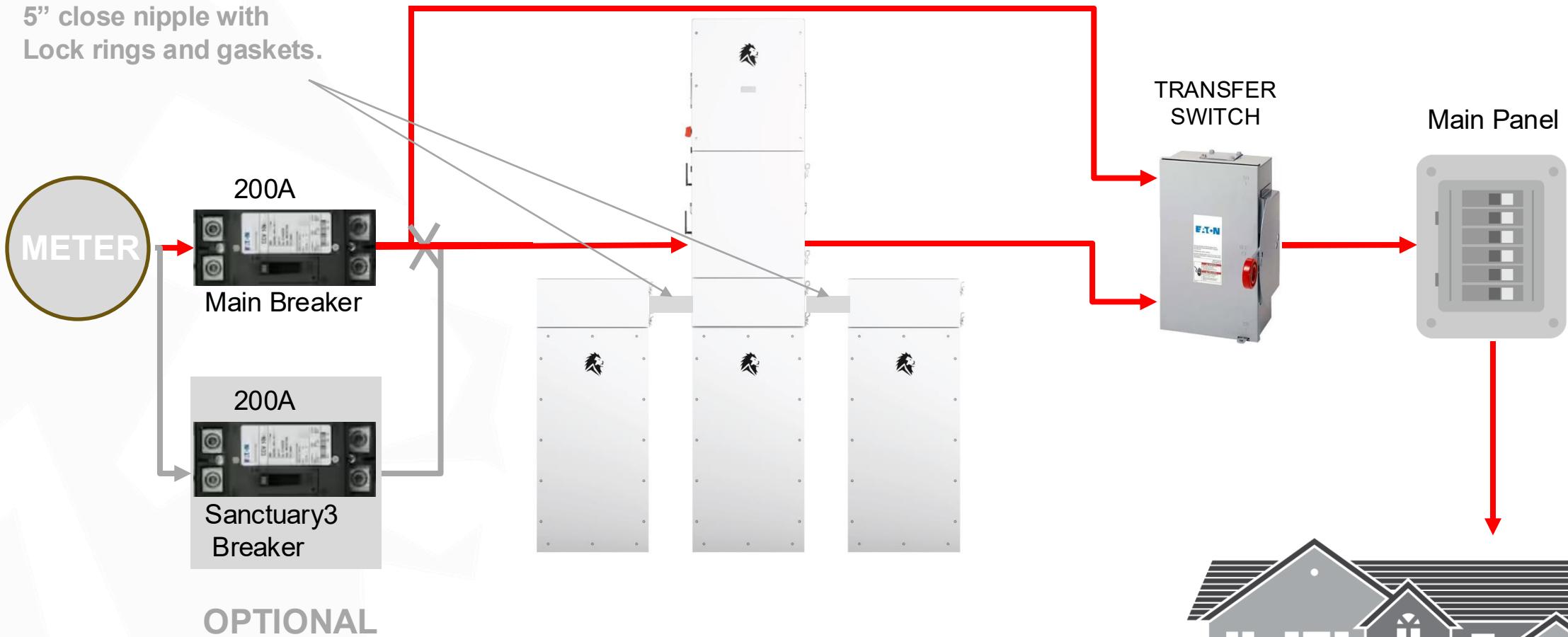




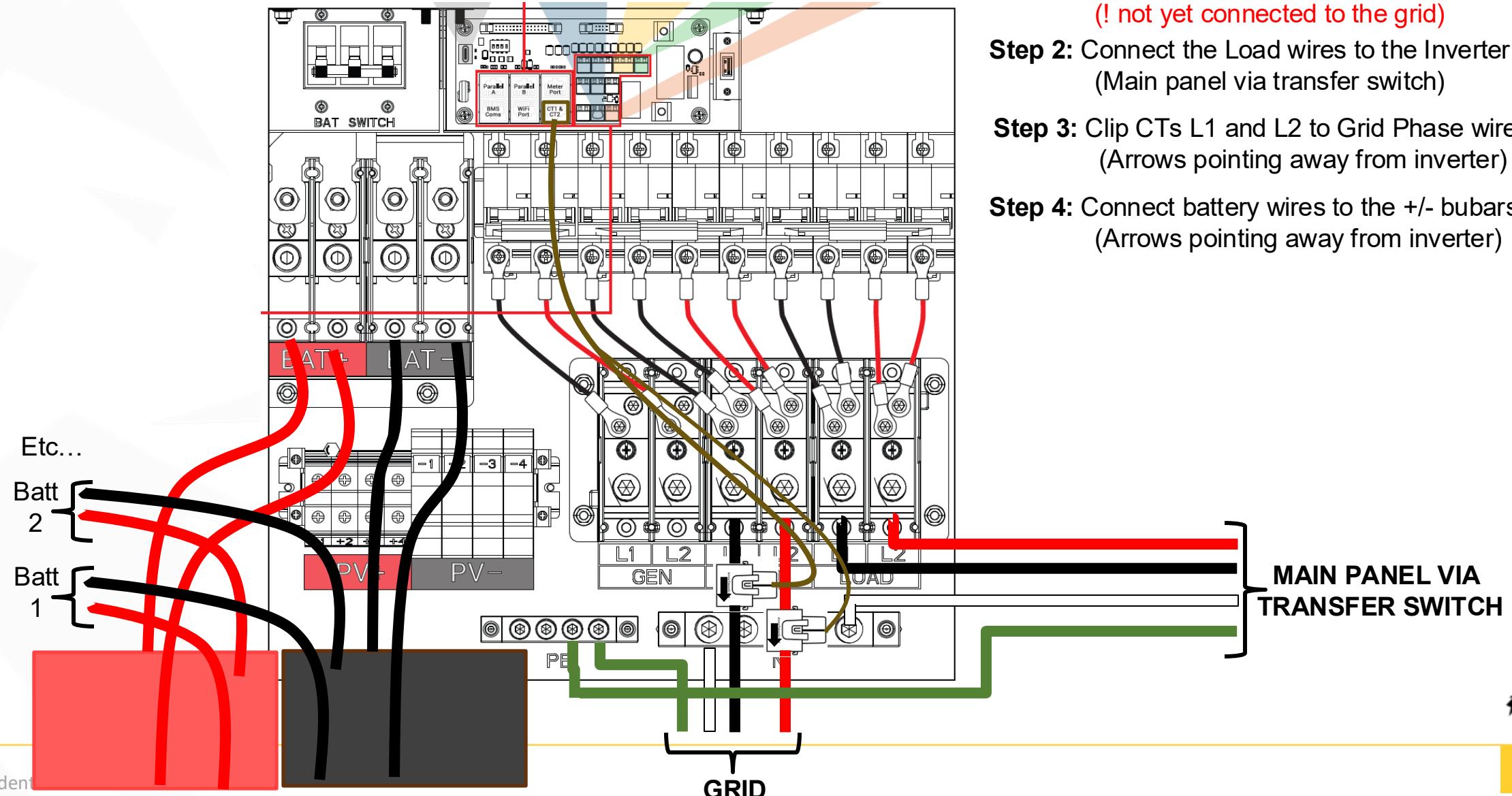
Sanctuary 3 (1i-3b) Full Home backup wiring

Sanctuary3 (1-3) AC Wiring – Full home backup

5" close nipple with
Lock rings and gaskets.

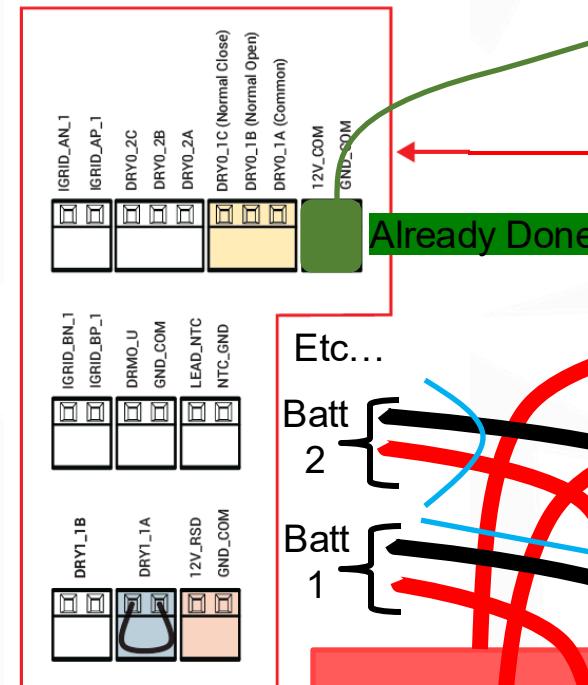
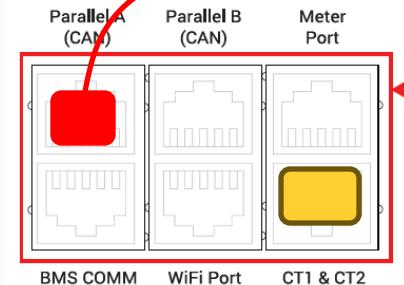


Sanctuary3 (1-3) Wiring – step by step 1/2



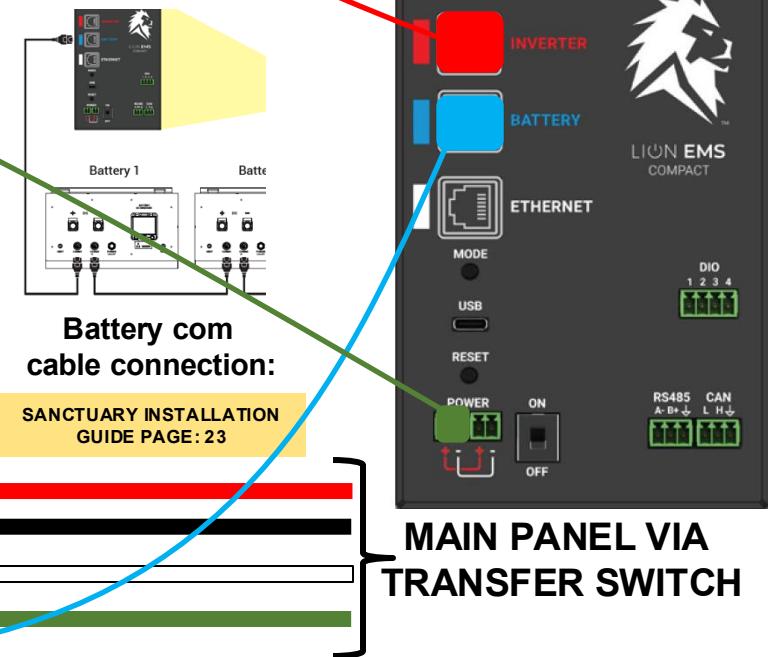
Sanctuary3 (1-3) Wiring – step by step

Already Done

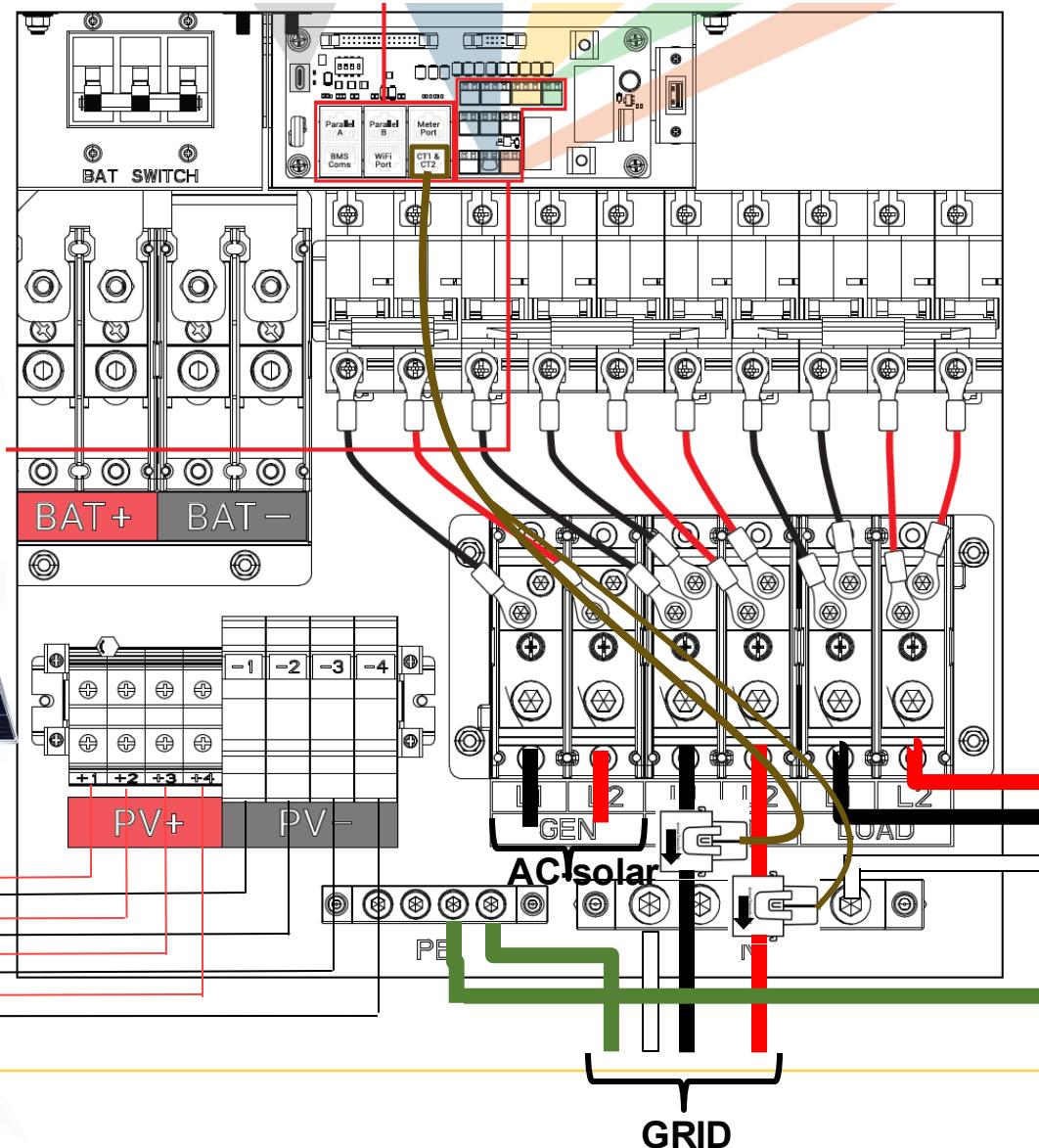
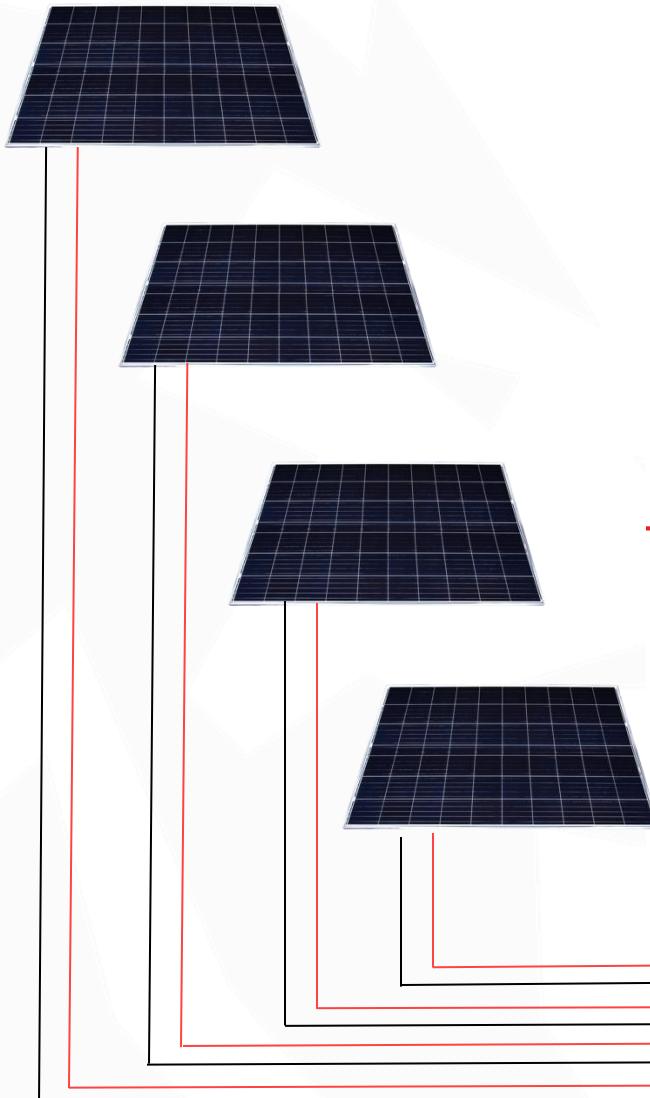


Step 5: Daisy chain the battery communication cables between batteries and EMS-C

[Video](#)



Sanctuary3 (1-3) Wiring – step by step



Step 6: Connect the PV solar wires to the Inverter (4 MPPTs with reverse polarity protection fuses available)

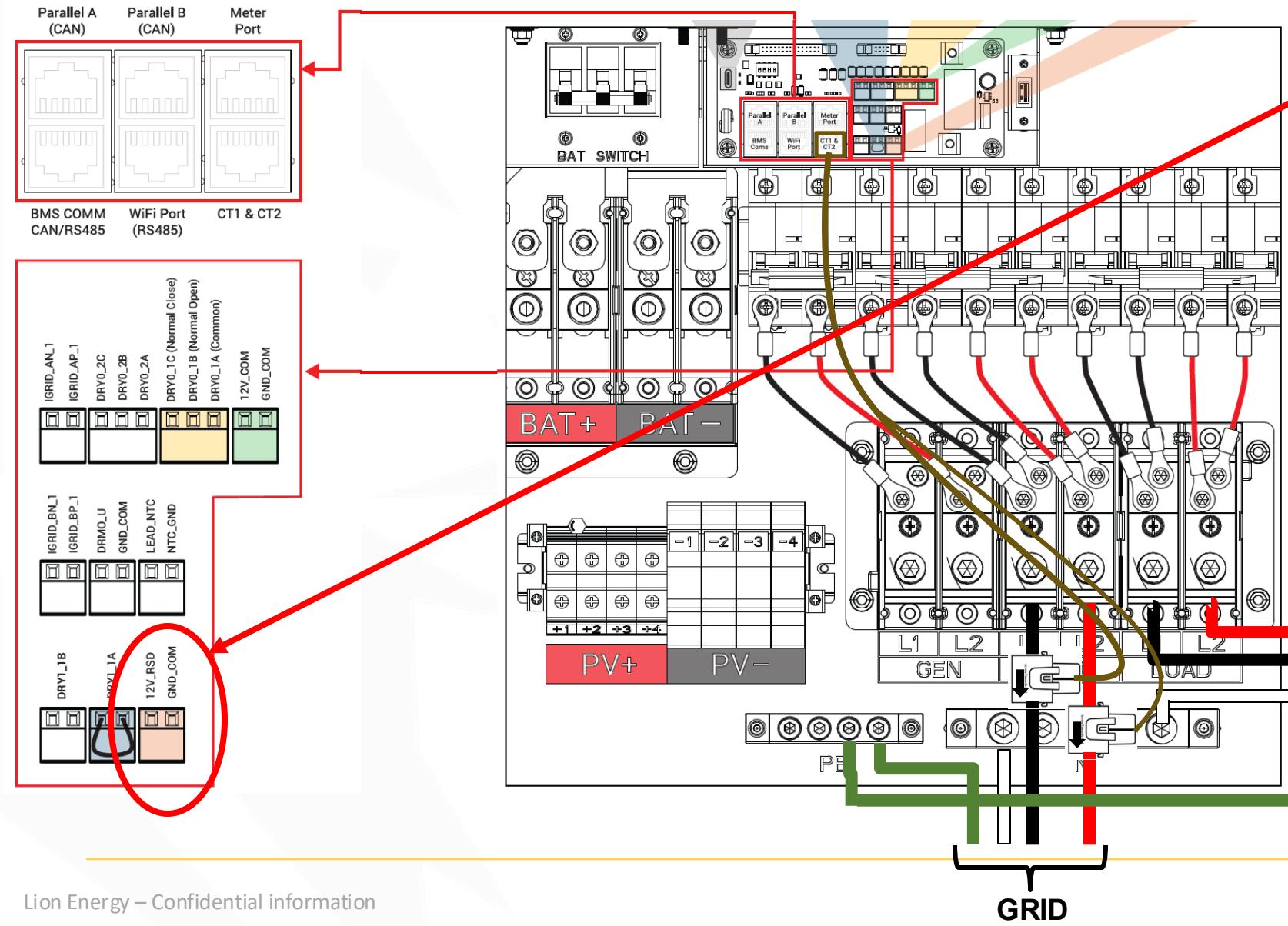
Step 6-a: (Optional) AC Solar can also be installed in place of the Generator input

Solar Input DC Wiring connection:

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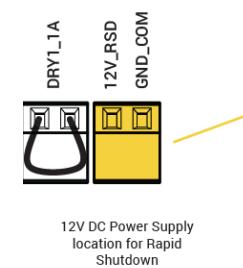
MAIN PANEL VIA TRANSFER SWITCH

Sanctuary3 (1-3) Wiring – step by step



Step 7: Connect the Rapid Shut Down Power line to the Inverter (Optional)

[TIGO RSS device](#)



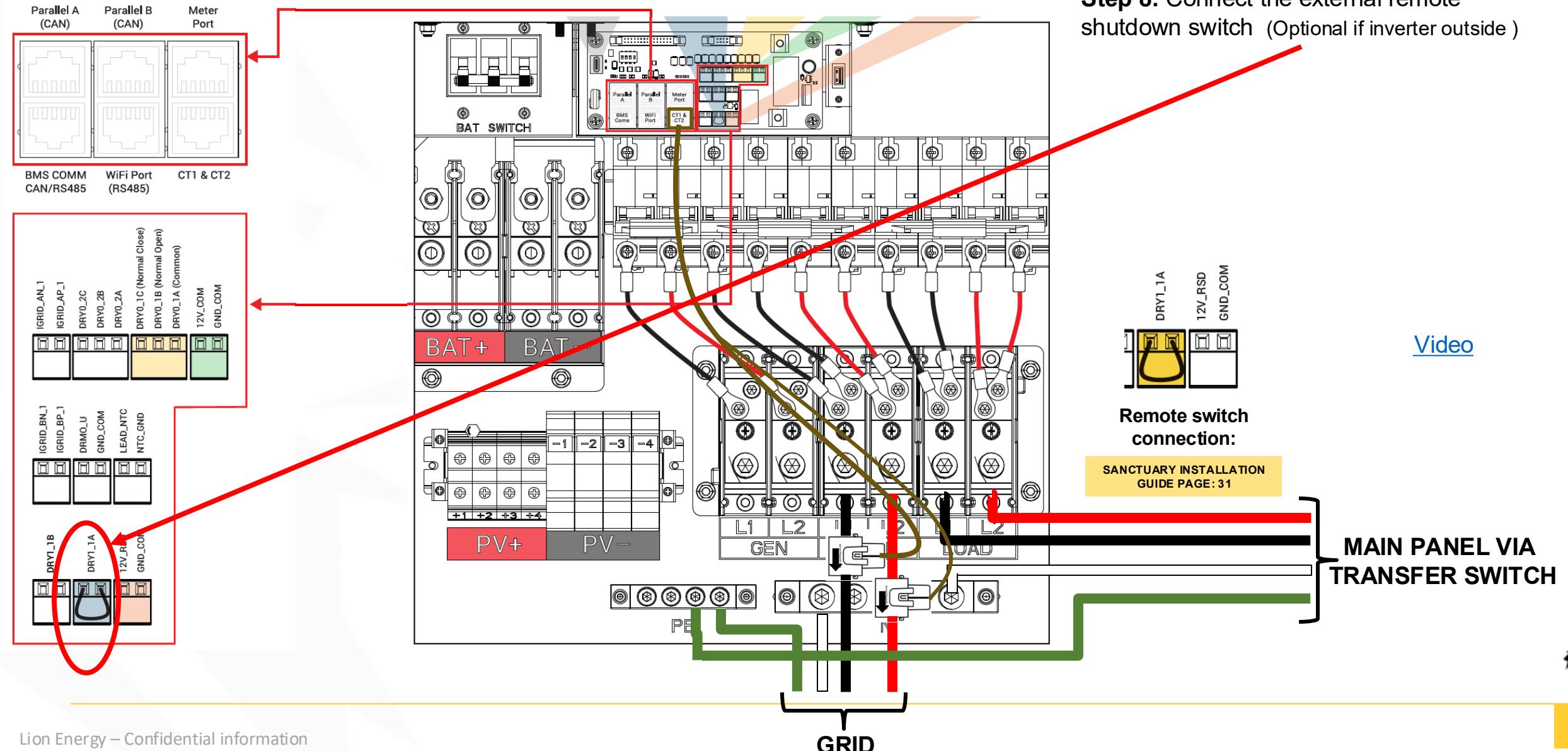
Rapid Shutdown connection:

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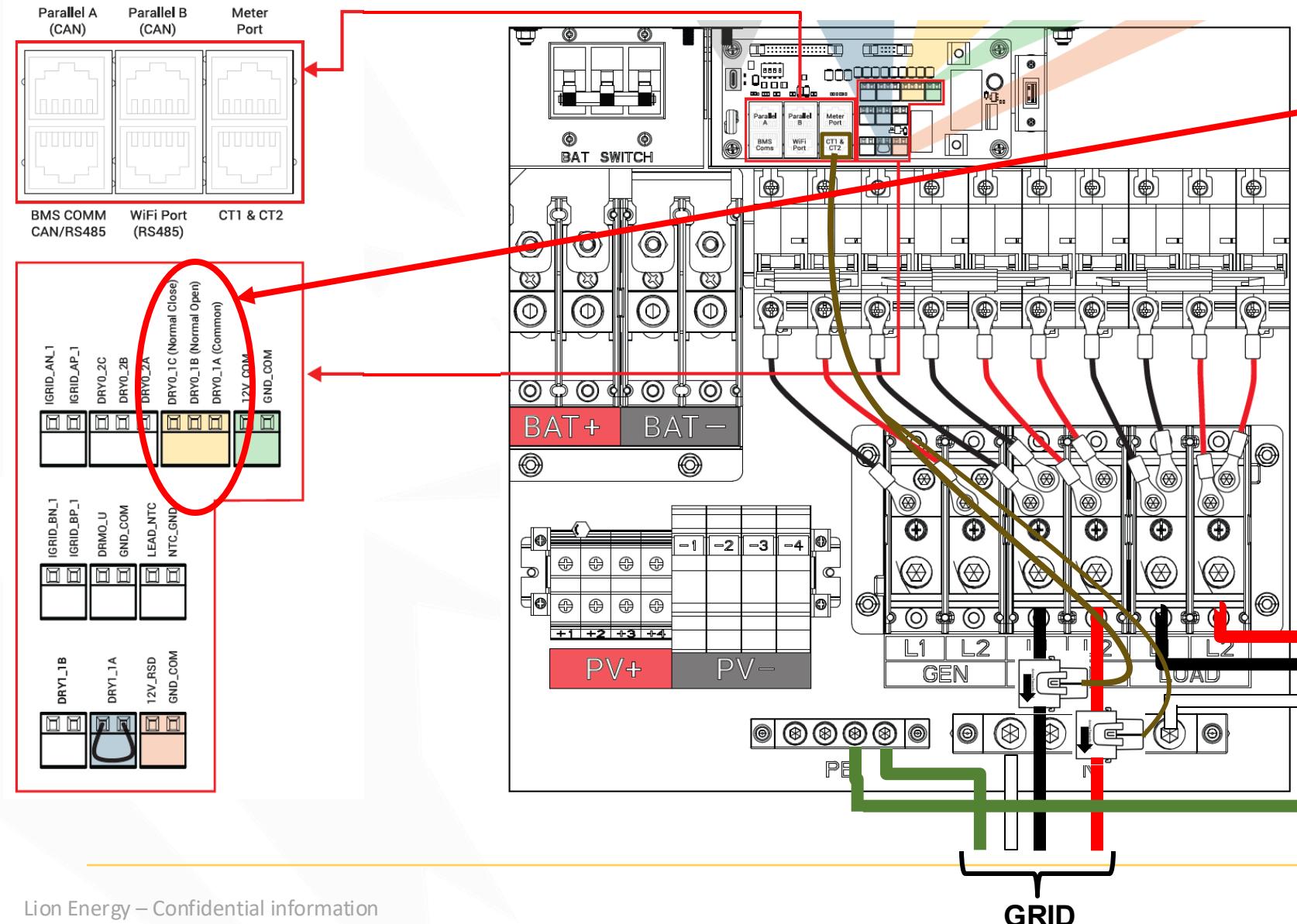
[Video](#)

MAIN PANEL VIA TRANSFER SWITCH

Sanctuary3 (1-3) Wiring – step by step



Sanctuary3 (1-3) Wiring – step by step



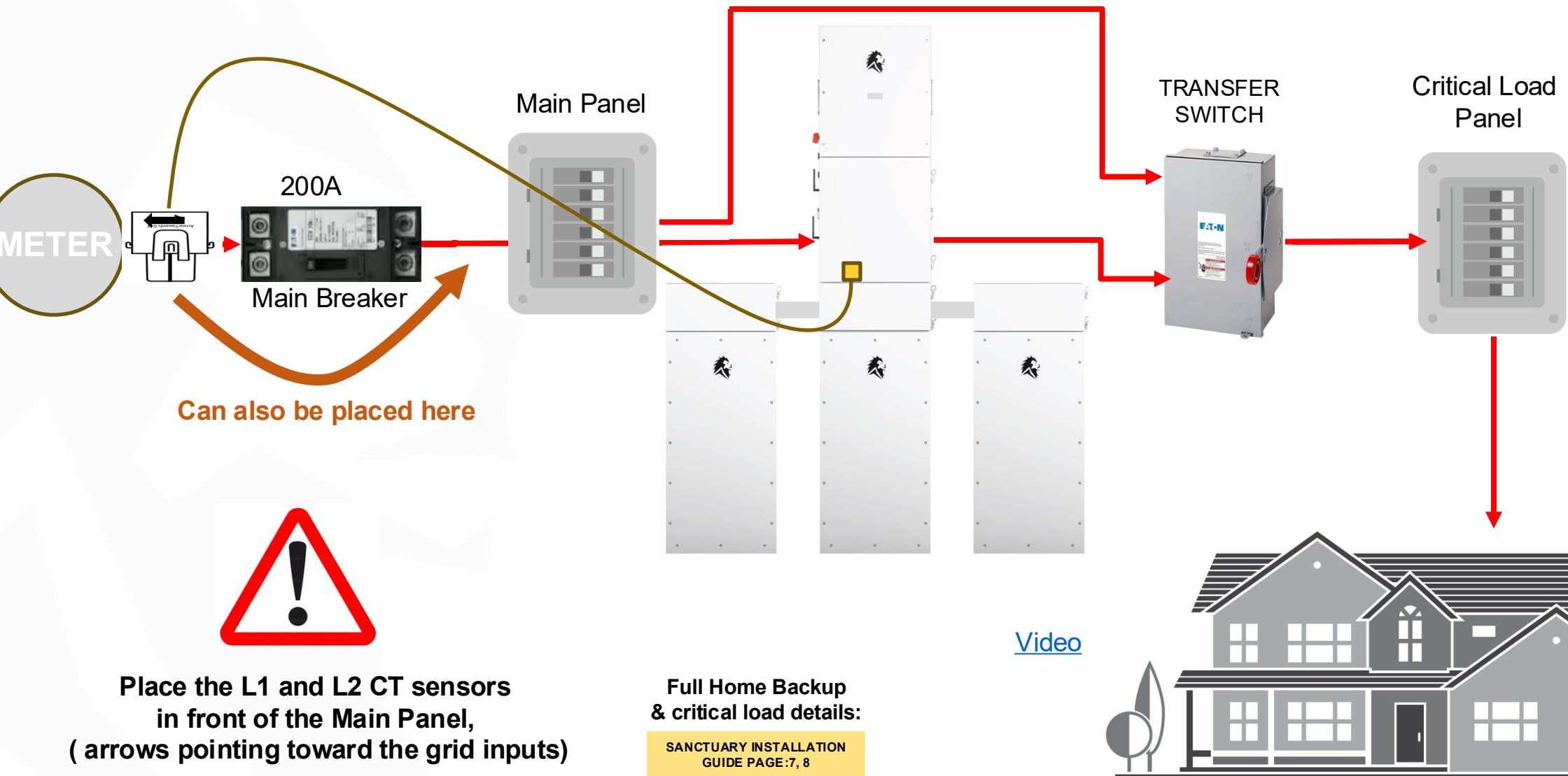
Step 9: Connect the automatic Generator Start-Command line to the Inverter (Optional)

[Video](#)



Sanctuary 3 (1i-3b) Critical Load backup wiring

Sanctuary3 (1-3) AC Wiring – Critical Load Backup





Sanctuary 3 - Rev#, Model, SKU

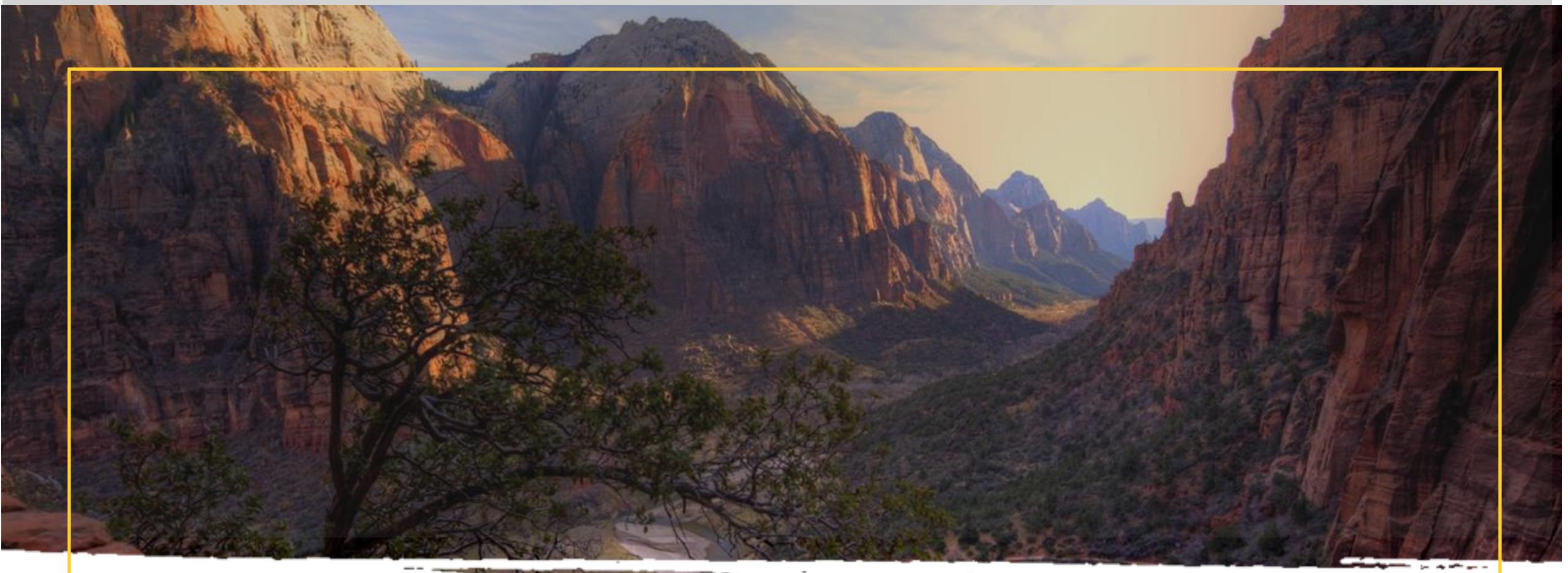
Sanctuary 2 & 3 - Model numbers

Sanctuary 2 (Outdoor Rated and EMS-C)		
System Model Numbers	Sanctuary ESS 12 – 14.3 Sanctuary ESS 12 – 28.6 Sanctuary ESS 12 – 42.9	1 Inv x 1 Batt 1 Inv x 2 Batt 1 Inv x 3 Batt
Inverter Model Number	Lion Hybrid Inverter 12kW	
Battery Model Number	Lion LFP Battery 14.3kWh	

Sanctuary 3		
System Model Numbers	Primary Model: Sanctuary 3 Child Models: 1i-1b ... 4i-12b	Example: 1 Inv x 3 Batt is: "Sanctuary 3 [1i-3b]"
Inverter Model Number	Sanctuary 3 Inverter 18kW	
Battery Model Number	Sanctuary 3 Battery 14.3kWh	

System Model numbers should be provided to AHJ's for PTO

For Sanctuary 2, if installing more than 1 inverter at a site, then multiple system model numbers will need to be provided (one for each inverter)



Sanctuary 3 Commissioning

Sanctuary 3 Commissioning

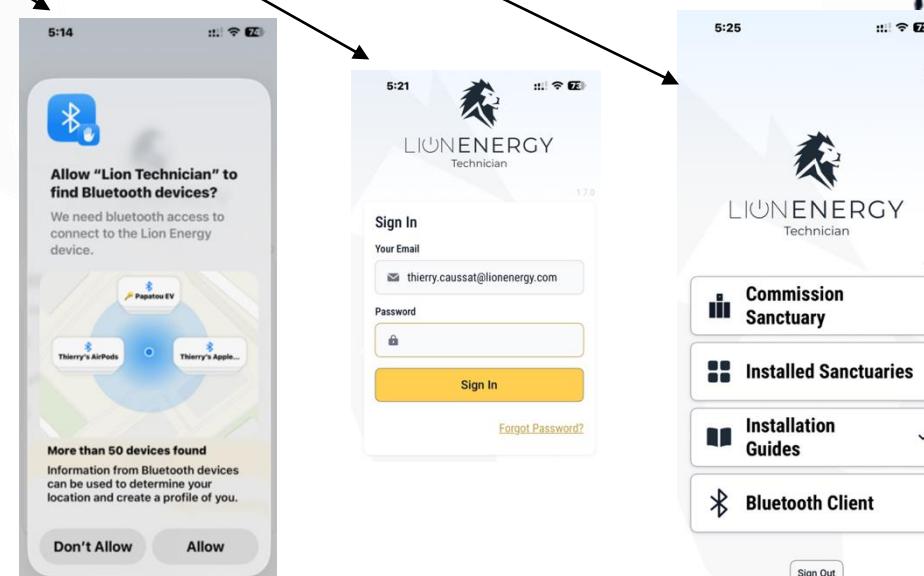
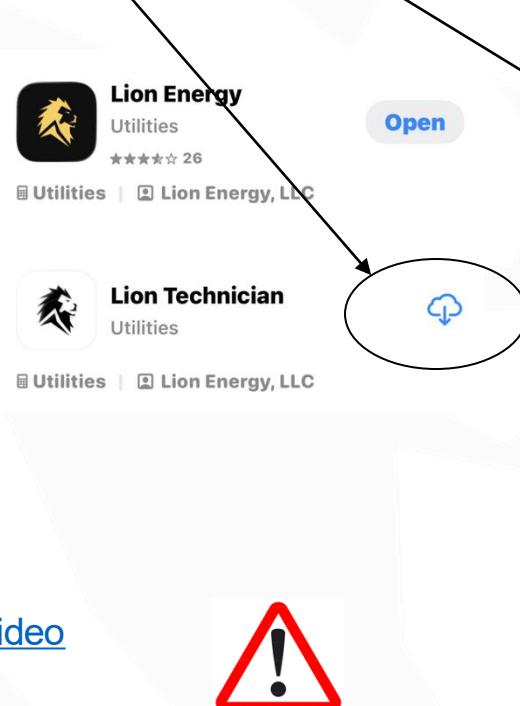
The Sanctuary3 commissioning is achieve via a mobile application:

- Download the Lion Energy Technician App from your iPhone or Android phone.

- Allow “Lion Technician” to find Bluetooth devices.

- Sign in, or create your account

- You're now ready to commission your Sanctuary System

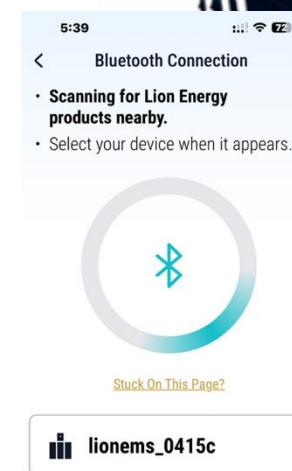
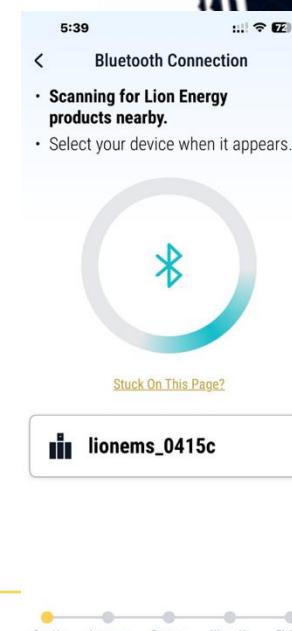
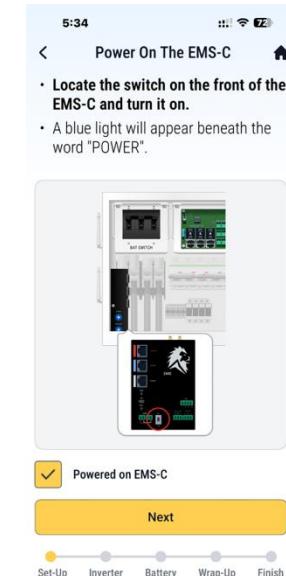
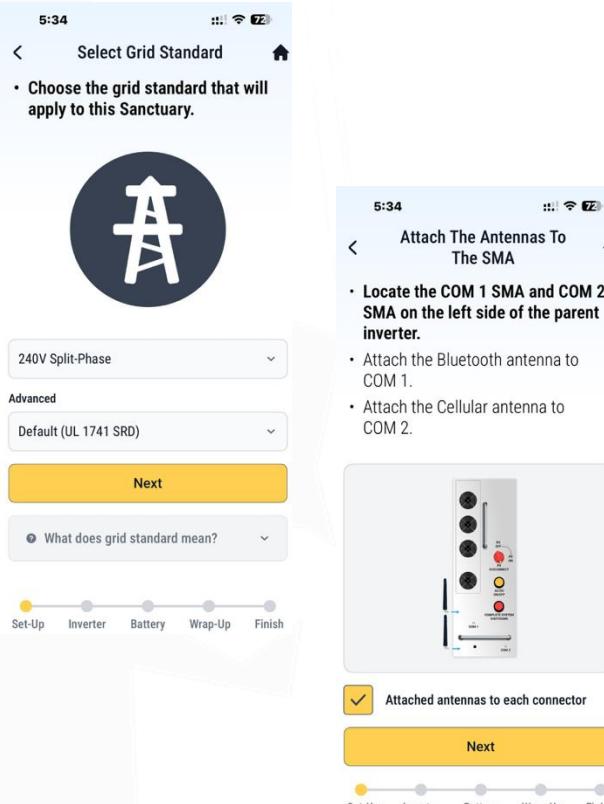
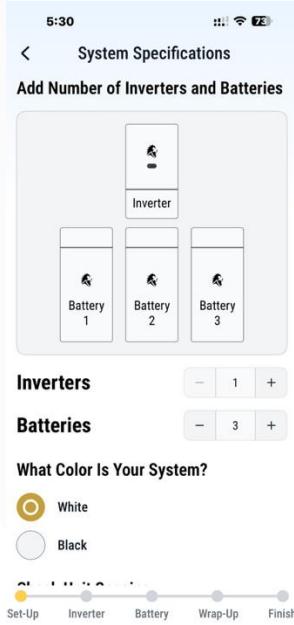


To receive an email to sign in, Installer Training and Certification must be completed.



Sanctuary 3 Commissioning

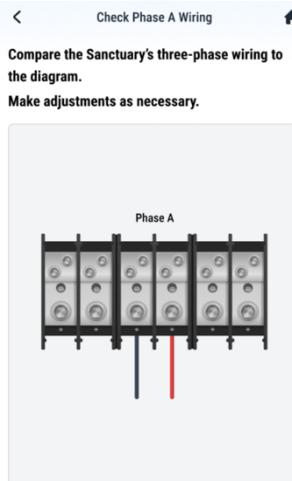
Easy step-by-step general set-up



Sanctuary 3 Commissioning

- With a lot of help along the way to set-up Inverter and Batteries before starting any Sanctuary system configuration:

Is The Bluetooth Light Blinking? 



* Examples of screen encountered during the commissioning



Turn On The Sanctuary



- Press the button on the side of the Sanctuary to power it on.
- The Sanctuary may take a moment to turn on.

Button Is Pressed



Sanctuary 3 Commissioning

- Videos are available to help you install & commission the Lion Energy Sanctuary 3 Systems

[Sanctuary 3 Installation & Commissioning Videos](#)

- Lion Energy Team: General feedback

“If the installation and wiring are done correctly, the commissioning of the Sanctuary3 System using the “Technician App” is flawless.”

- Don't hesitate to consult the installation guide

[LION – Sanctuary 3 Installation Guide and Manual 081525.pdf](#)





THANK YOU!