



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](#)

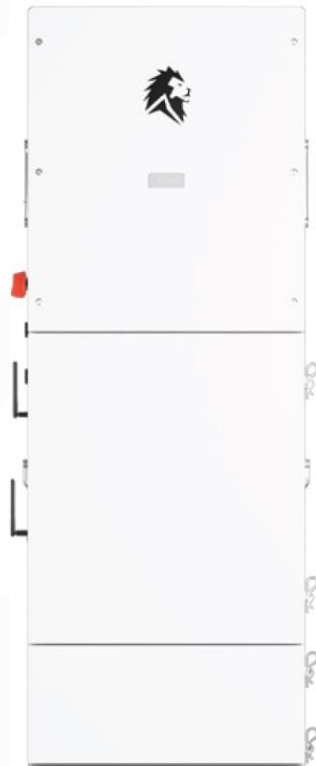
01. Sanctuary 3 (1i-3b) Installation
02. Sanctuary 3 (1i-3b) Full Home backup wiring
03. Sanctuary 3 (1i-3b) Critical Load backup wiring
04. Sanctuary 3 Rev#, Model, SKU
05. Sanctuary 3 Commissioning



Sanctuary 3 (1i-3b) Installation

Sanctuary3 (1i-3b) Installation

(1 inverter - 3 Batteries)



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

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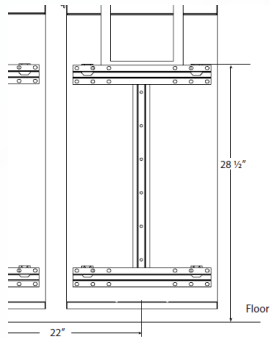


Step 1: Install the battery brackets

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 "

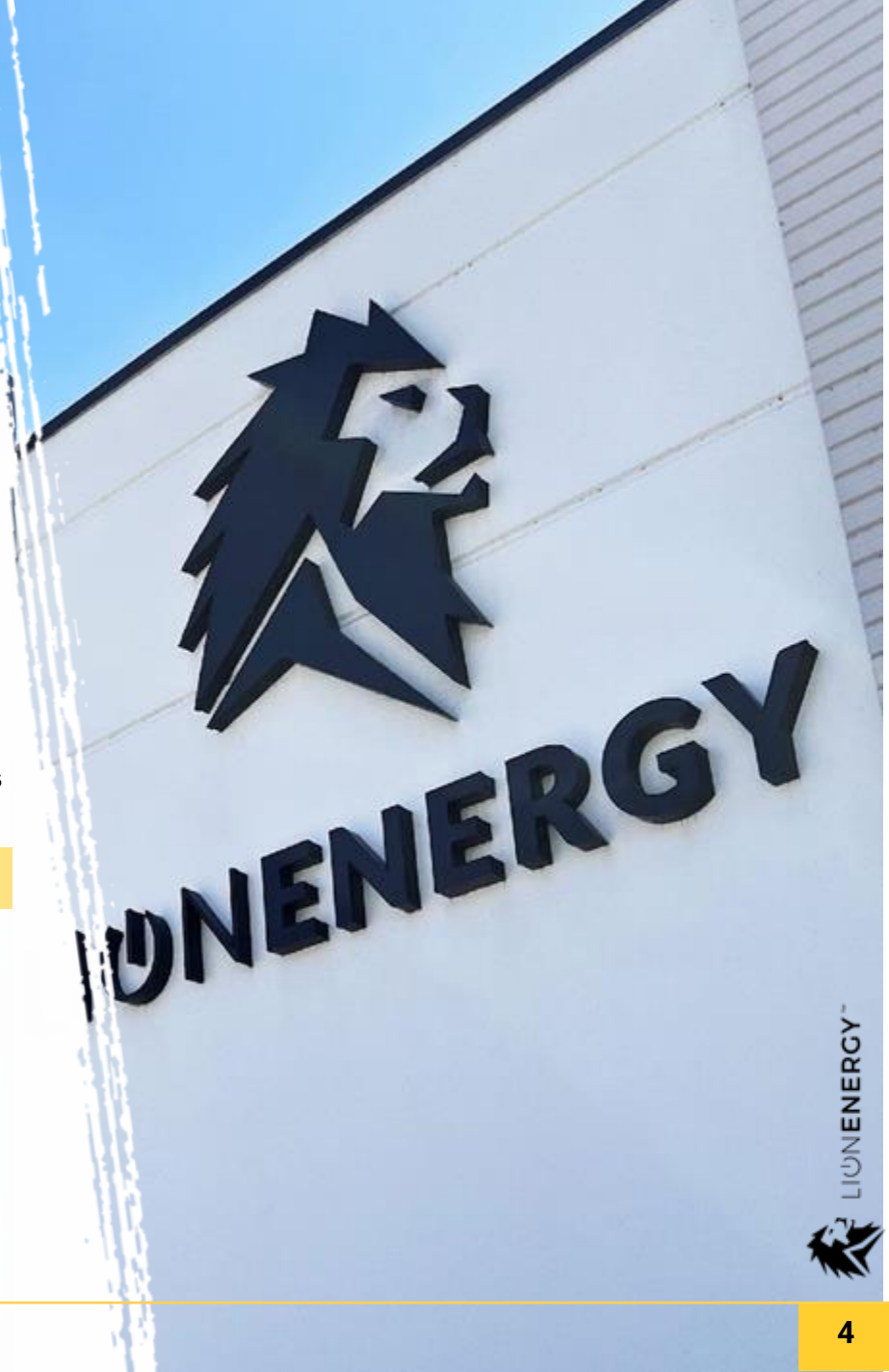
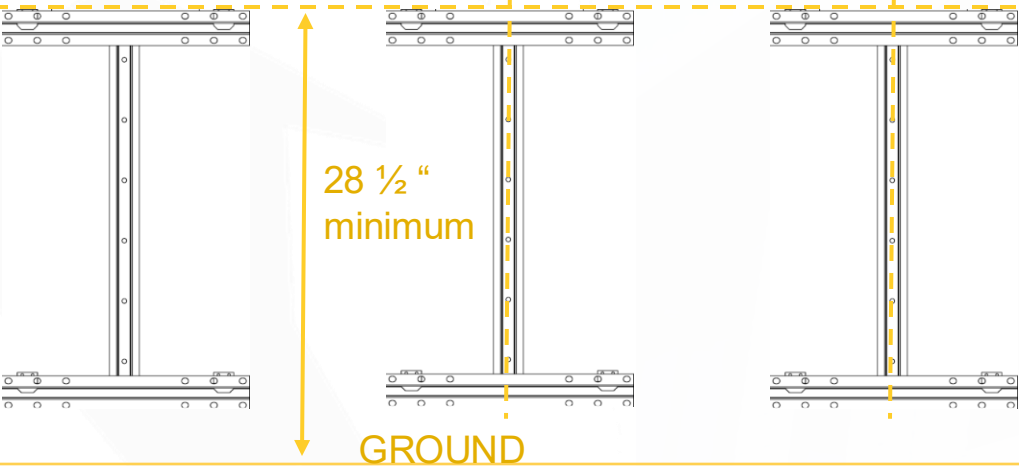


Spacing and brackets installation details:

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At the same height: 28 ½ " minimum from the ground

(28 ½ " from the ground to guarantee battery at least 0.5" off the ground)



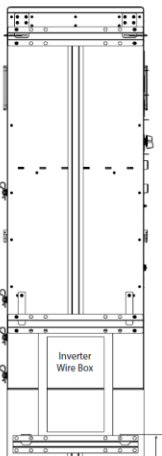
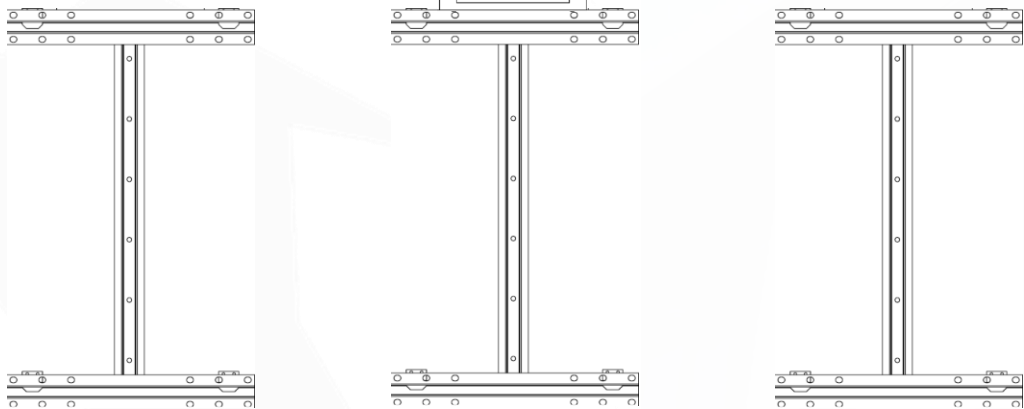
Step 2: Install the Inverter bracket

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:

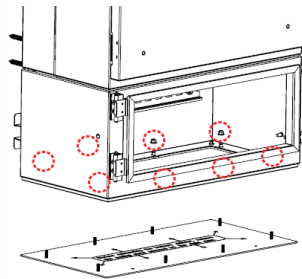
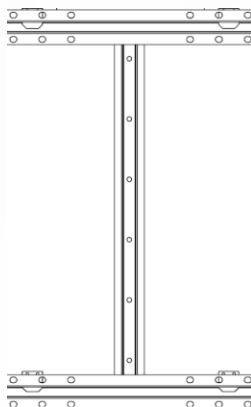
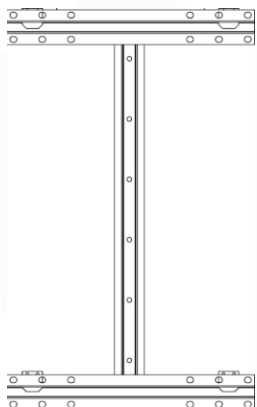
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Step 3: Install the central system

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](#)



LIONENERGY™

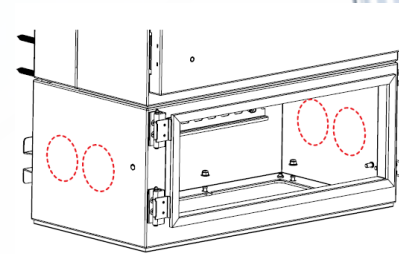


Step 4: Install the side batteries

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

2- Install conduits on each side
of central wire box

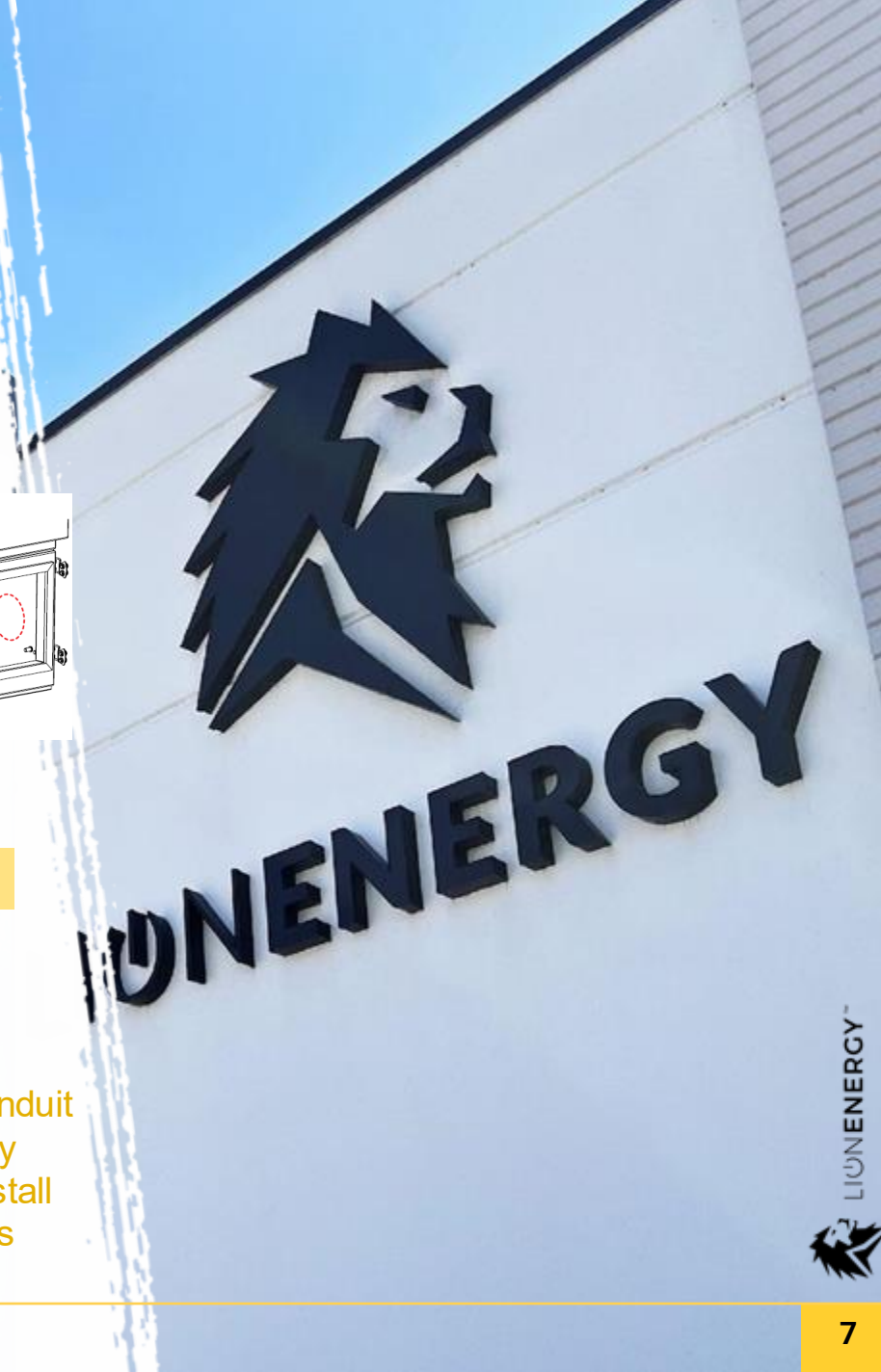
5" close nipple with
Lock rings and gaskets.



**Conduit
installation details:**

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



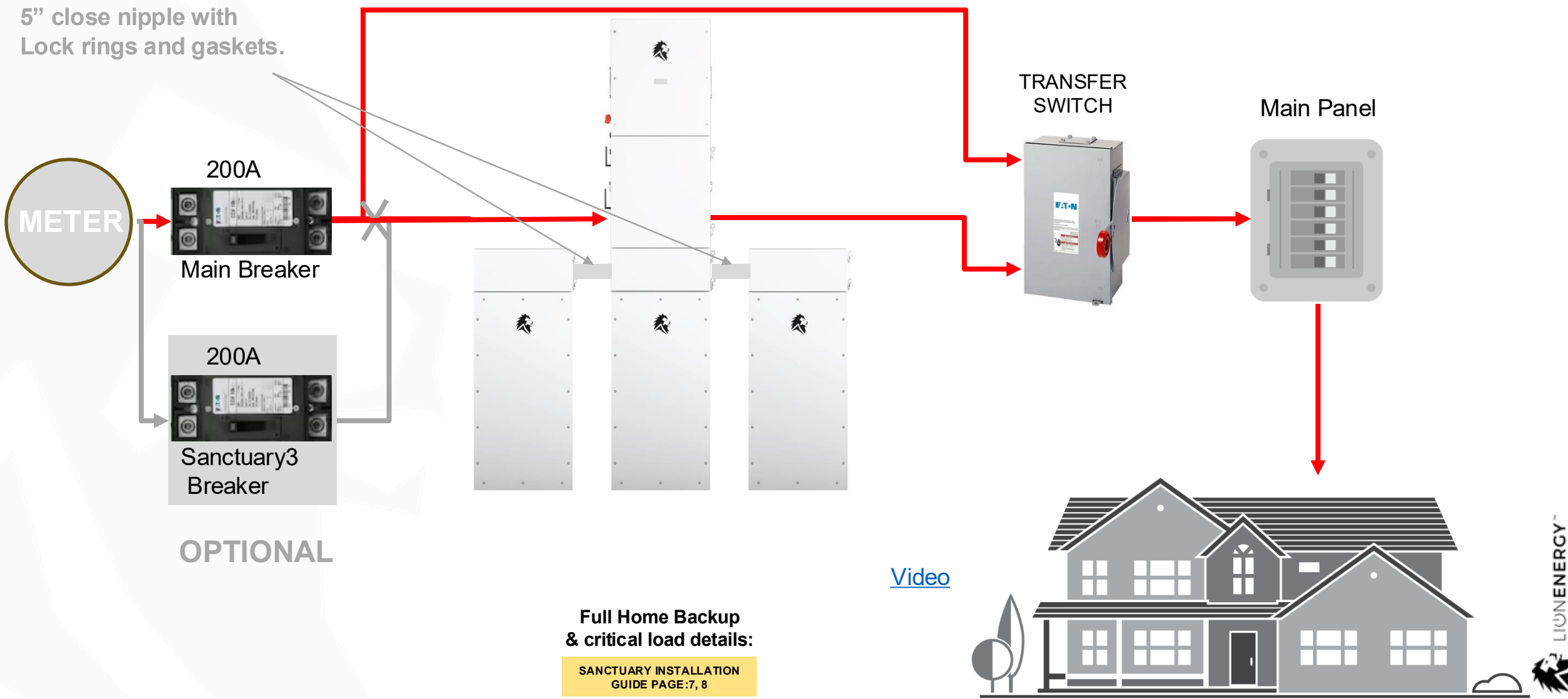
You're now ready for the wiring



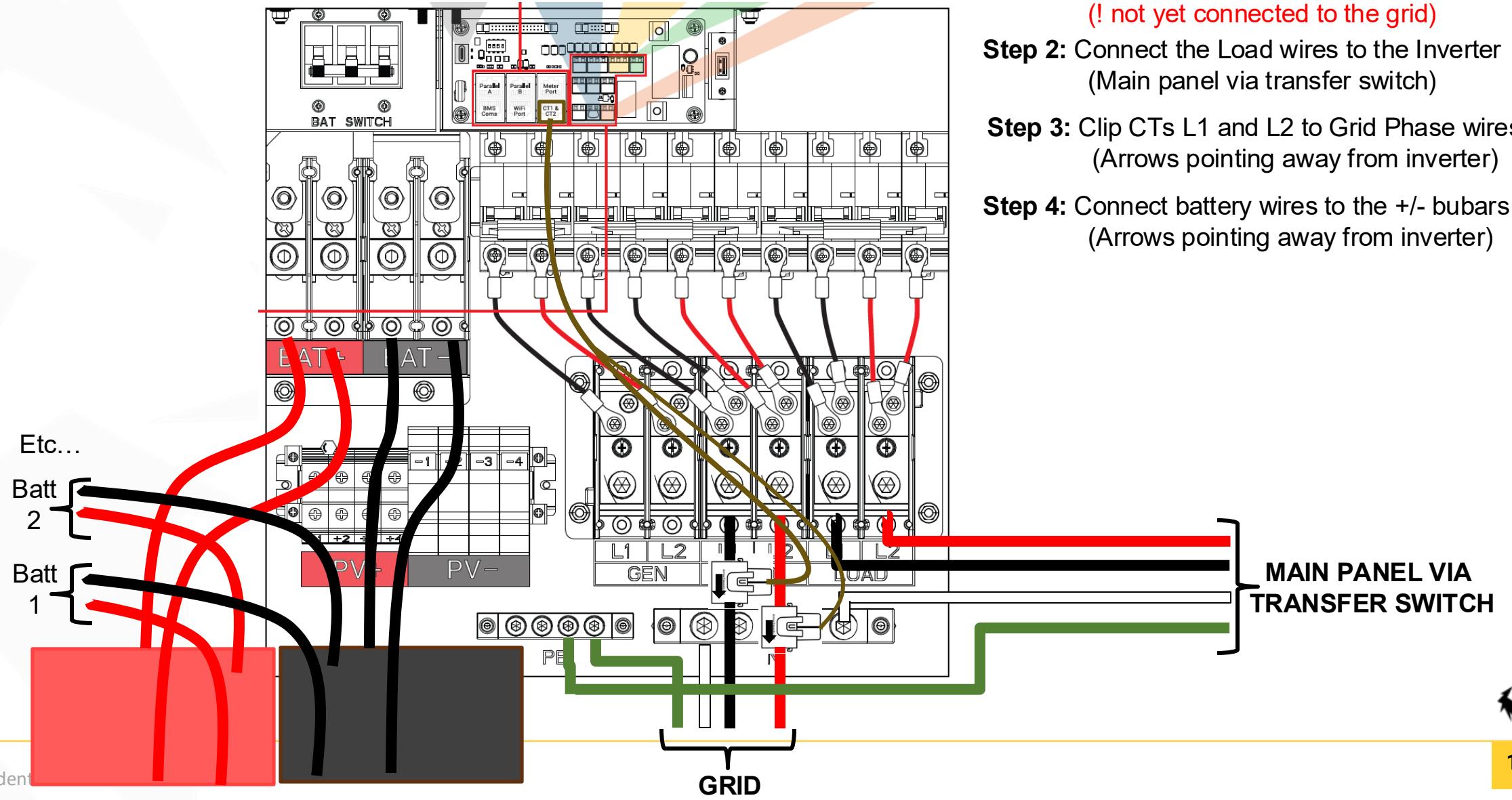


Sanctuary 3 (1i-3b) Full Home backup wiring

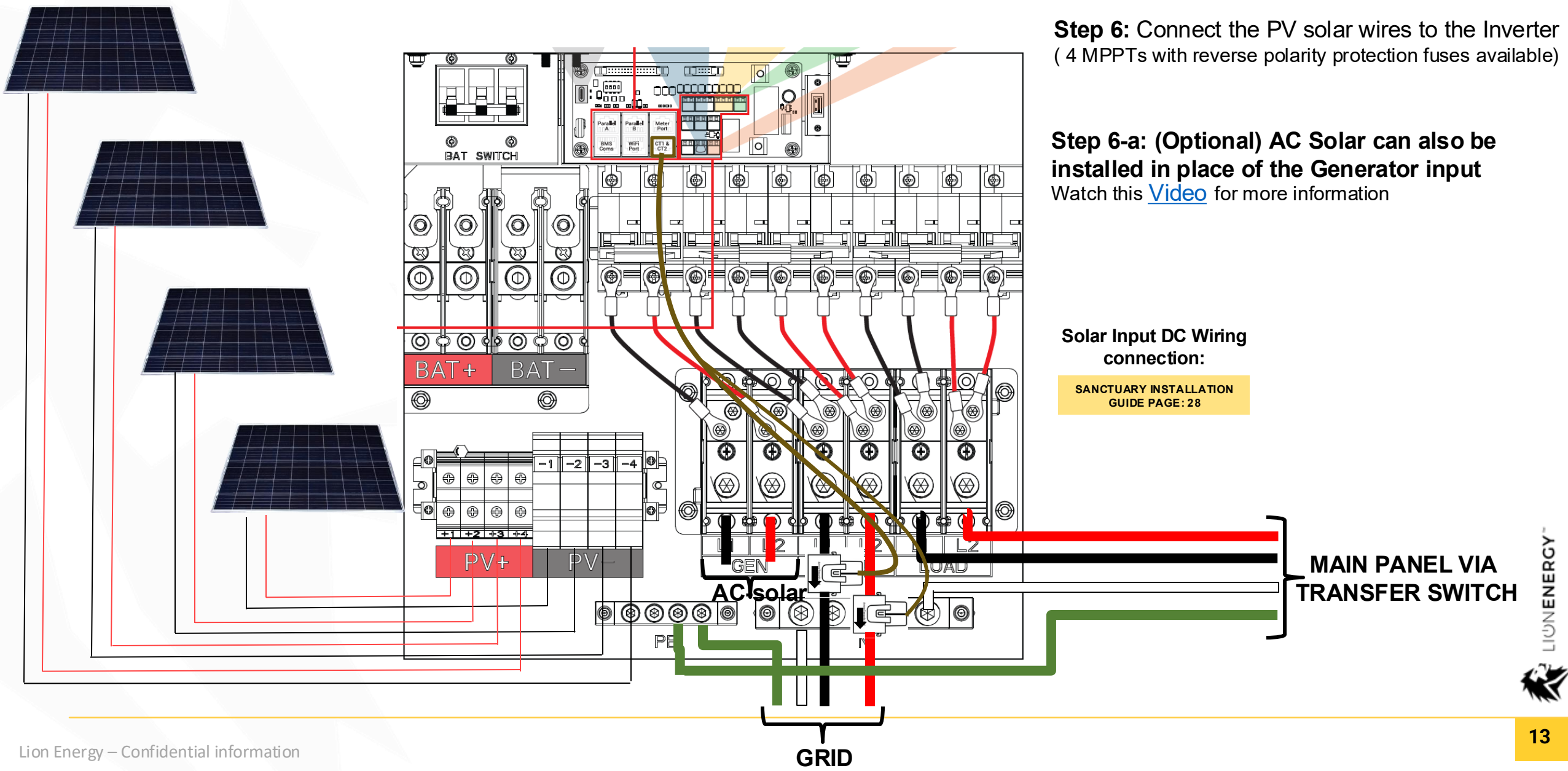
Sanctuary3 (1-3) AC Wiring – Full home backup



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



Sanctuary3 (1-3) Wiring – step by step



Sanctuary3 (1-3) Wiring – step by step

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

[TIGO RSS device](#)

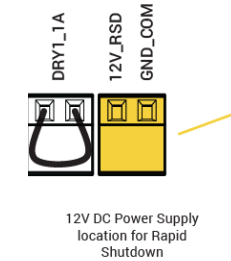
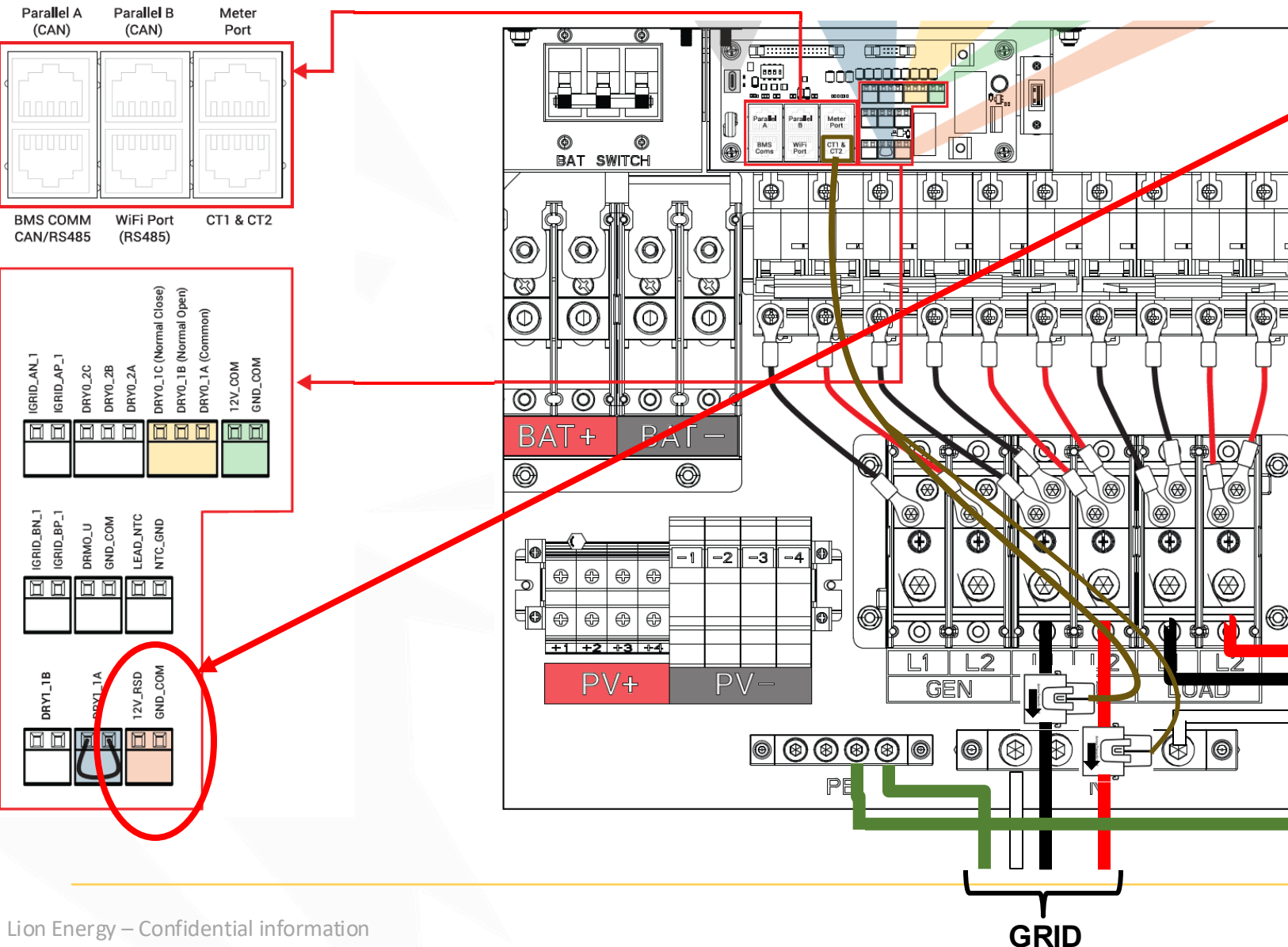


[Video](#)

Rapid Shutdown connection:

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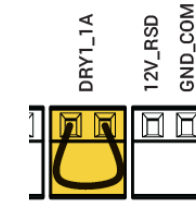
MAIN PANEL VIA TRANSFER SWITCH



Sanctuary3 (1-3) Wiring – step by step

Step 8: Connect the external remote shutdown switch (Optional if inverter outside)

[Video](#)



Remote switch connection:

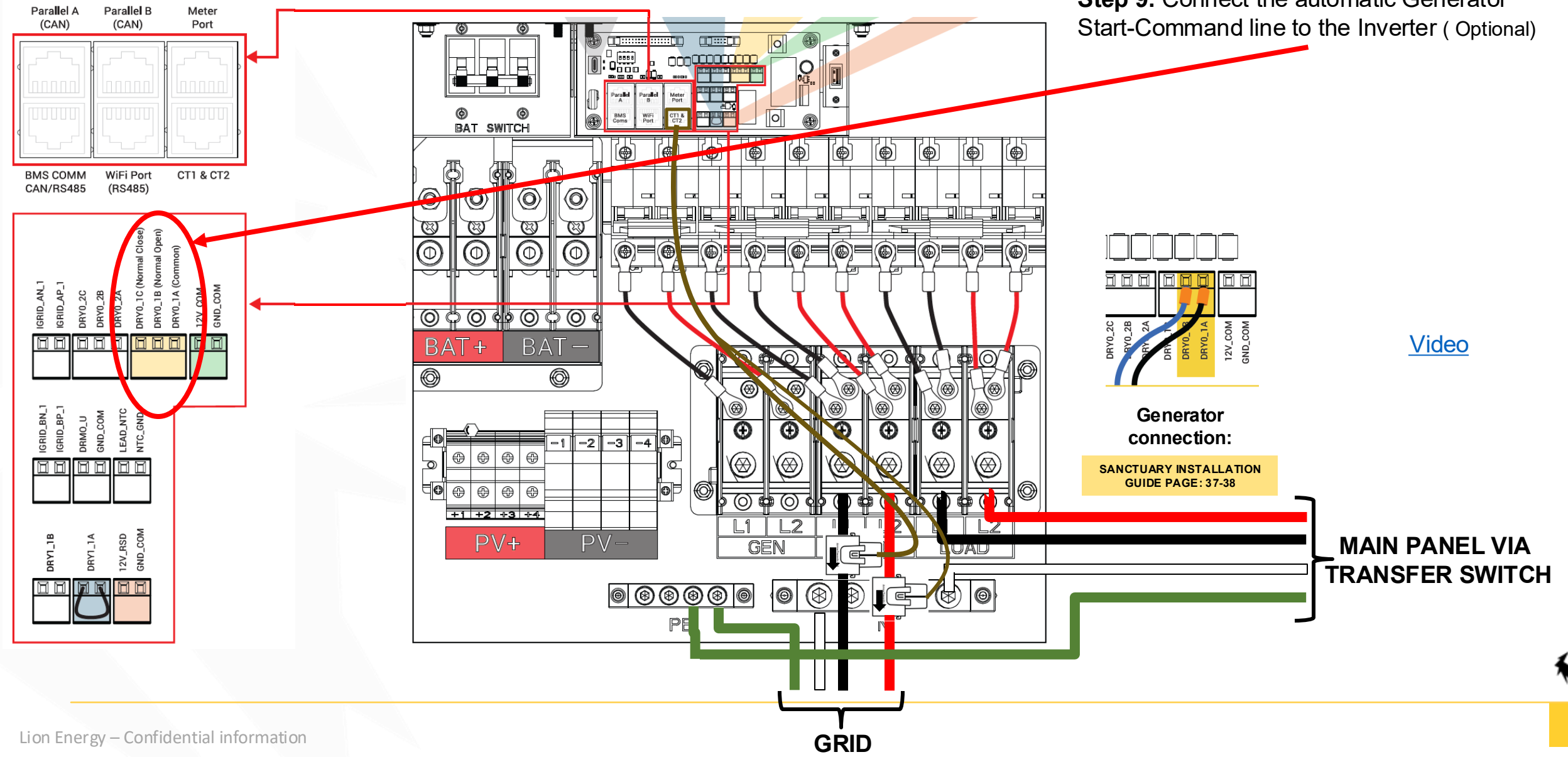
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**MAIN PANEL VIA
TRANSFER SWITCH**

GRID

Sanctuary3 (1-3) Wiring – step by step

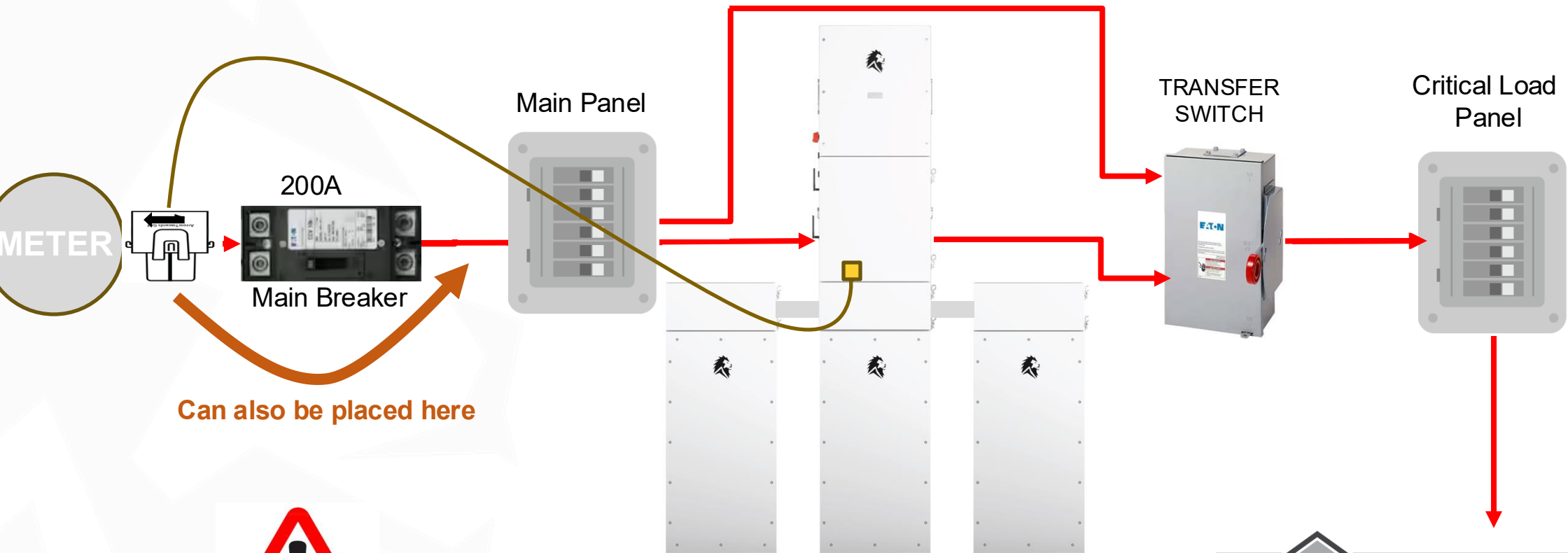
Step 9: Connect the automatic Generator Start-Command line to the Inverter (Optional)





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

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



**Place the L1 and L2 CT sensors
in front of the Main Panel,
(arrows pointing toward the grid inputs)**

**Full Home Backup
& critical load details:**

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[Video](#)





Sanctuary 3 - Rev#, Model, SKU

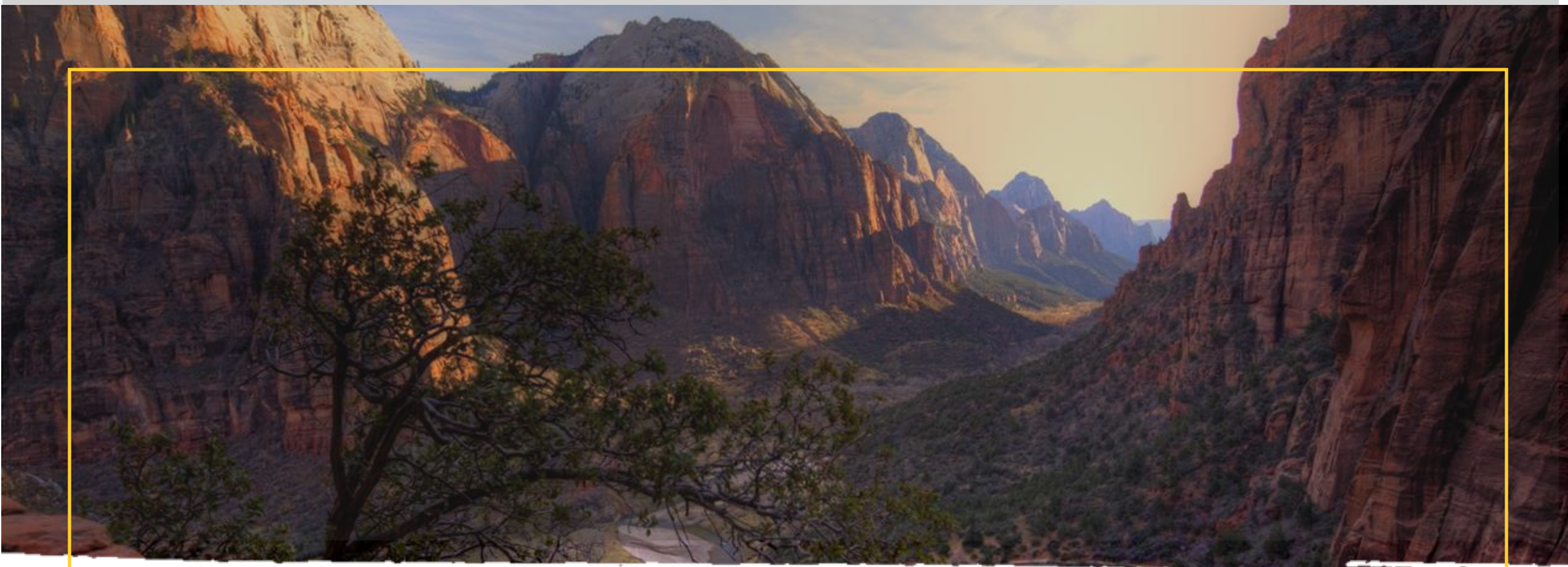
Sanctuary 2 & 3 - Model numbers

| Sanctuary 2 (Outdoor Rated and EMS-C) | | |
|---------------------------------------|--------------------------------|----------------|
| System Model Numbers | Sanctuary ESS 12 – 14.3 | 1 Inv x 1 Batt |
| | Sanctuary ESS 12 – 28.6 | 1 Inv x 2 Batt |
| | Sanctuary ESS 12 – 42.9 | 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 | Example: 1 Inv x 3 Batt is: |
| | Child Models: 1i-1b ... 4i-12b | "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)

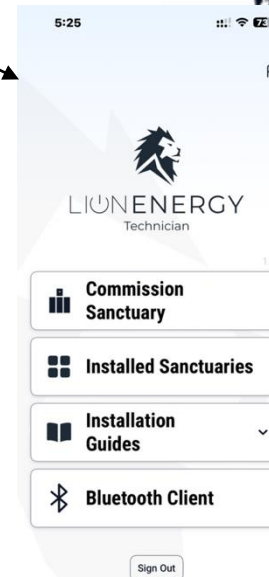
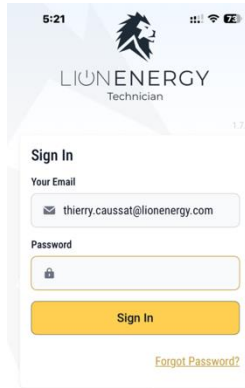
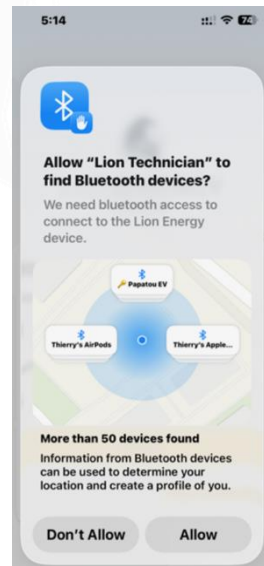


Sanctuary 3 Commissioning

Sanctuary 3 Commissioning

The Sanctuary3 commissioning is achieved 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



[Video](#)



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

LION ENERGY INSTALLERS

Sanctuary 3 Commissioning

Easy step-by-step general set-up

5:30

< System Specifications

Add Number of Inverters and Batteries

Inverter

Battery 1 Battery 2 Battery 3

Inverters: 1

Batteries: 3

What Color Is Your System?

White

Black

Set-Up Inverter Battery Wrap-Up Finish

5:34

< Select Grid Standard

Choose the grid standard that will apply to this Sanctuary.

240V Split-Phase

Advanced

Default (UL 1741 SRD)

Next

What does grid standard mean?

Set-Up Inverter Battery Wrap-Up Finish

5:34

< Attach The Antennas To The SMA

Locate the COM 1 SMA and COM 2 SMA on the left side of the parent inverter.

Attach the Bluetooth antenna to COM 1.

Attach the Cellular antenna to COM 2.

Attached antennas to each connector

Next

Set-Up Inverter Battery Wrap-Up Finish

5:34

< Power On The EMS-C

Locate the switch on the front of the EMS-C and turn it on.

A blue light will appear beneath the word "POWER".

Powered on EMS-C

Next

Set-Up Inverter Battery Wrap-Up Finish

5:39

< Bluetooth Connection

Scanning for Lion Energy products nearby.

Select your device when it appears.

Stuck On This Page?

lionems_0415c


Set-Up Inverter Battery Wrap-Up Finish



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? ×

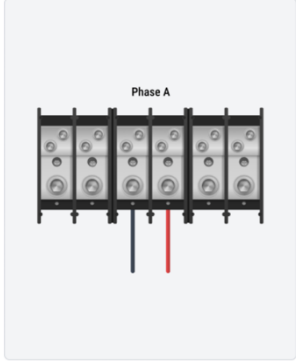


- Look for a blinking blue light beneath the word "BLUETOOTH"
- If only the "POWER" light is on, the EMS-C is booting up.
- If the status light is blue, press the "MODE" button until the blinking Bluetooth light appears.

No Yes

Check Phase A Wiring ⌂

Compare the Sanctuary's three-phase wiring to the diagram.
Make adjustments as necessary.



✓ Wiring matches the diagram

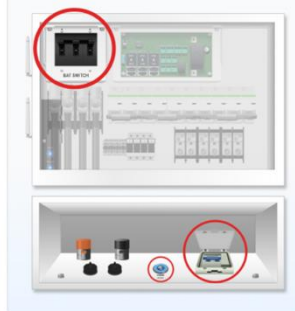
Move to Phase B

Where is the Three-Phase Wiring in the Sanctuary?

Set-Up Battery Inverter Wrap-Up Finish

Battery Set Up ⌂

- Turn on the battery switch inside EACH inverter.
- Then turn on the power button and the battery breaker located on top of EACH battery.



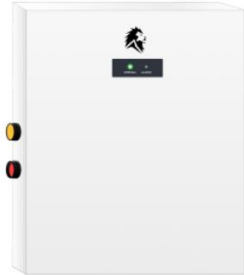
☐ Battery switches are switched on

☐ Power buttons and battery breakers are turned on

Next

Set-Up Battery Inverter Wrap-Up Finish

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!