Installation Instruction

Smart Home Panel

ECOFLOW

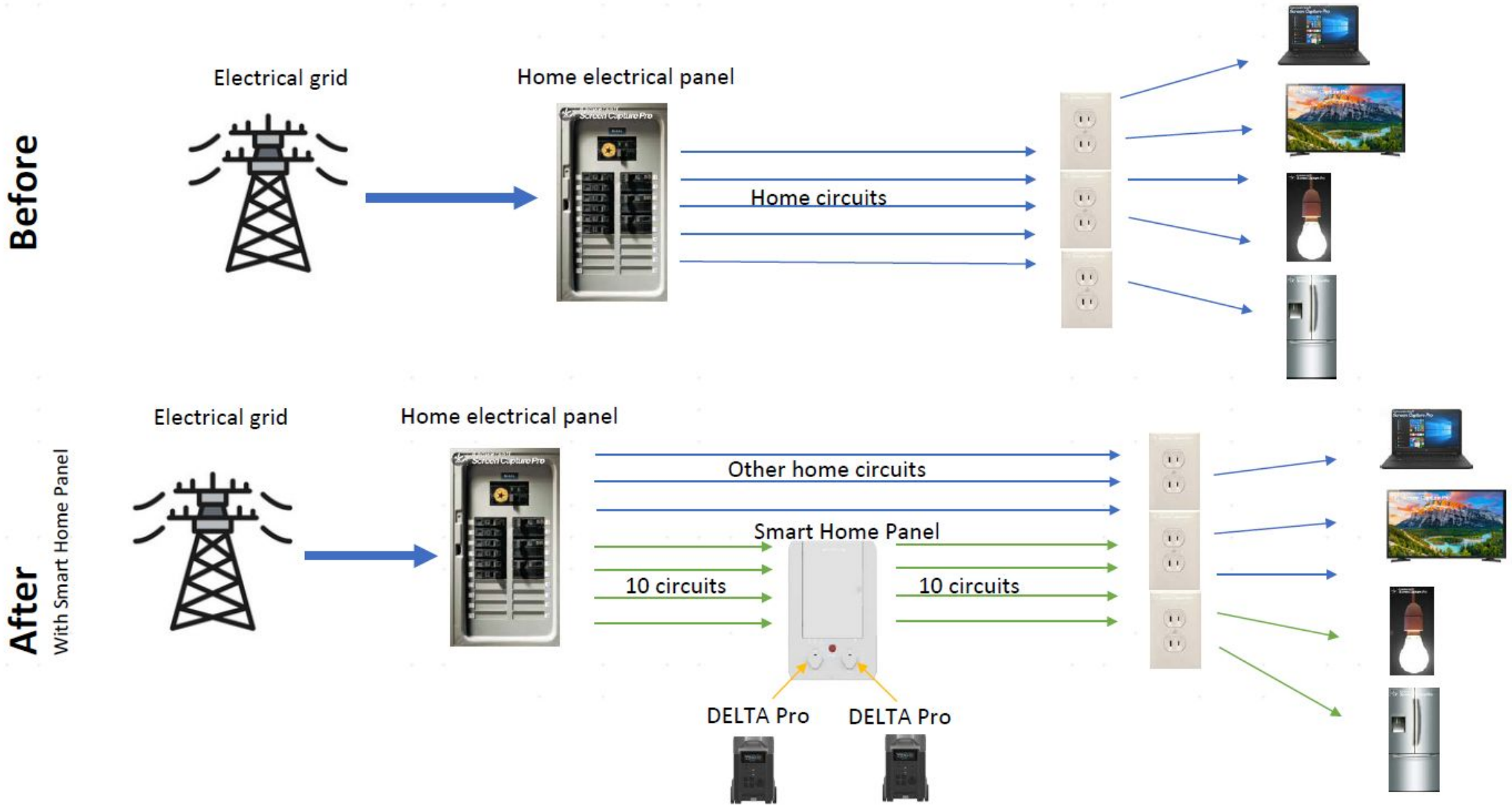
SHP = Automatic Smart Switch?

EcoFlow Smart Home Panel(hereinafter referred to as SHP) is a smart load side transfer switch, it can be used as a fast-charging docking station for the DELTA Pro in the grid mode and can switch 10 downstream load circuits between the grid and the backup power station when the power grid goes down. It also enables the app control so that you can monitor and control these circuits anywhere, anytime.

Introduction

How to integrate with home electricity system?

*Please note that the user should have a certified electrician install Smart Home Panel with home electrical panel



Introduction

→ Wiring

Commission

FAQs

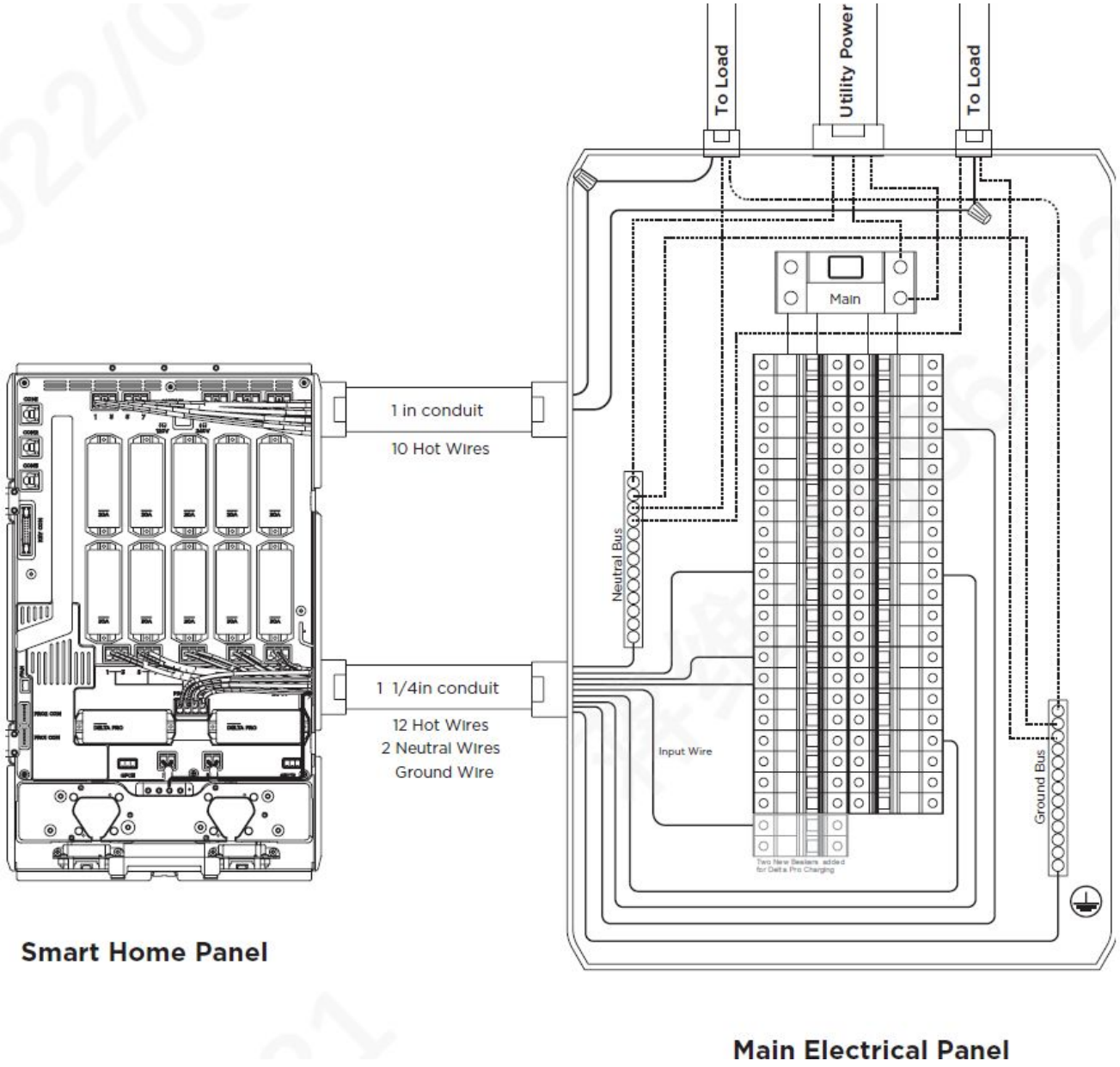
Scenario 1

Single Phase without AFCI/GFCI

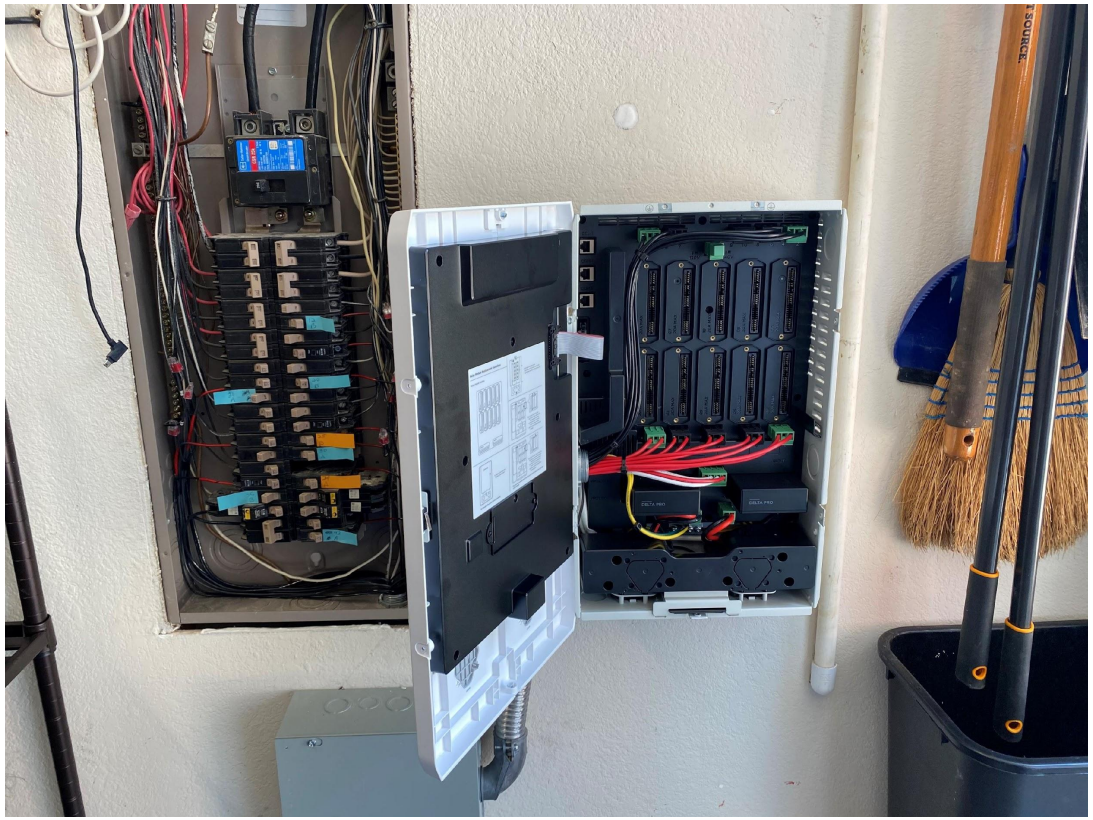
Key Points:

1. The current rating of relay modules should match the upstream circuit breaker.

2. All input wires should be routed through the lower conduit into the SHP and output wires through the upper conduit.



Realistic Scenario1

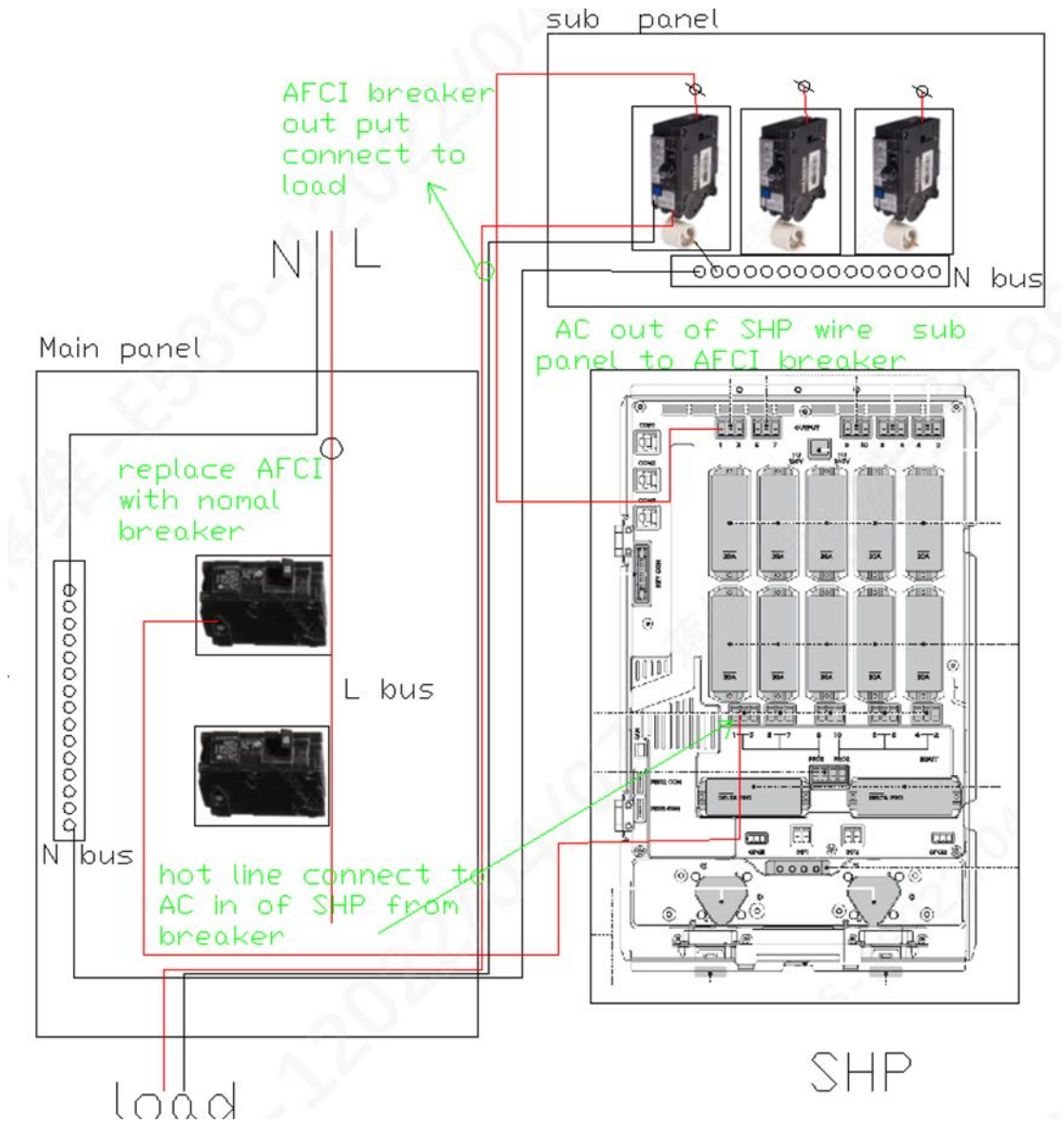


Scenario 2

Single Phase with AFCI/GFCI

Key Points:

1. All upstream AFCI/GFCI breakers should be replaced with conventional breakers and you may connect existing AFCI/GFCI breakers or use AFCI/GFCI outlets downstream to SMART HOME PANEL.



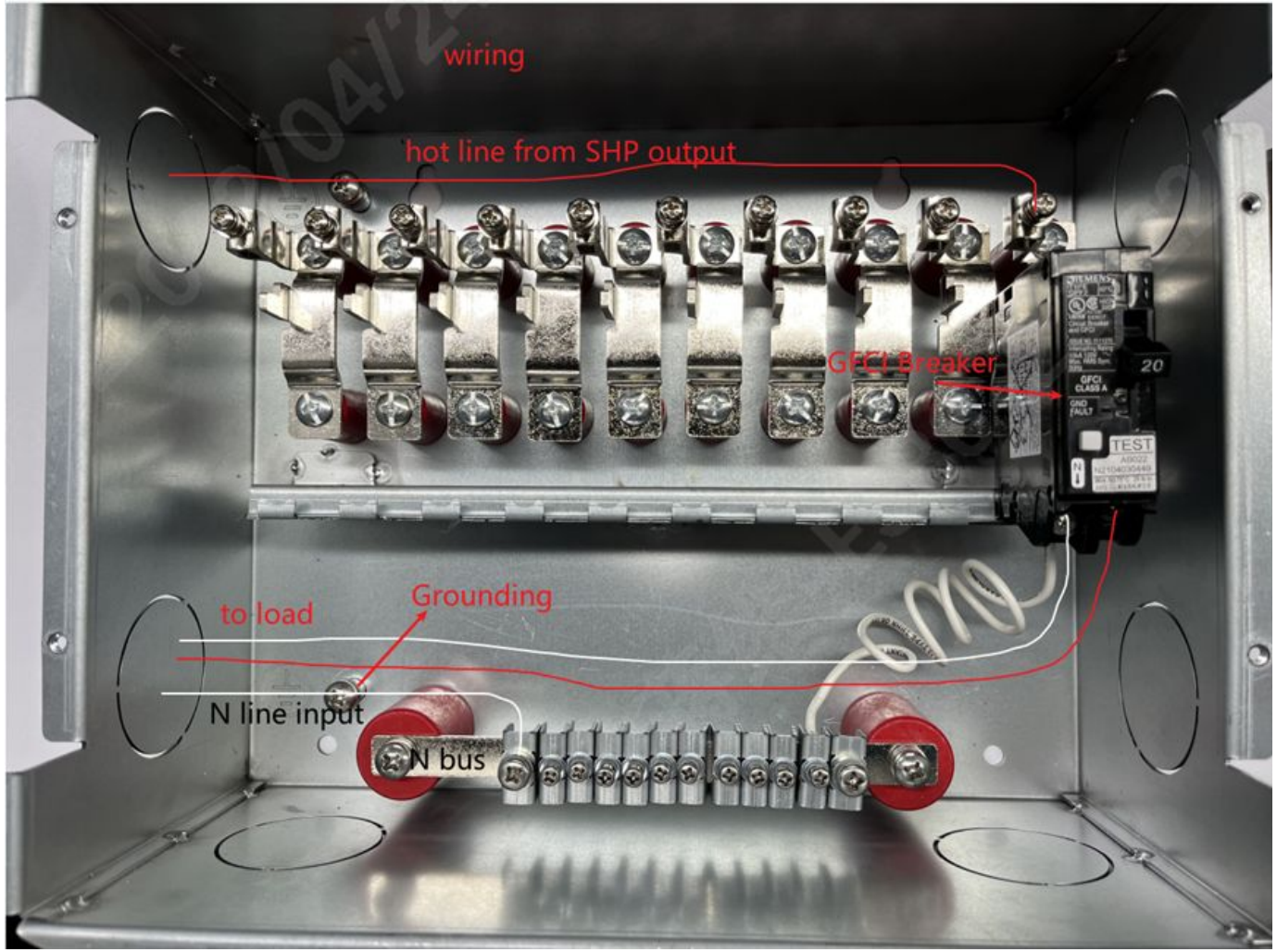
Scenario 2

Single Phase with AFCI/GFCI

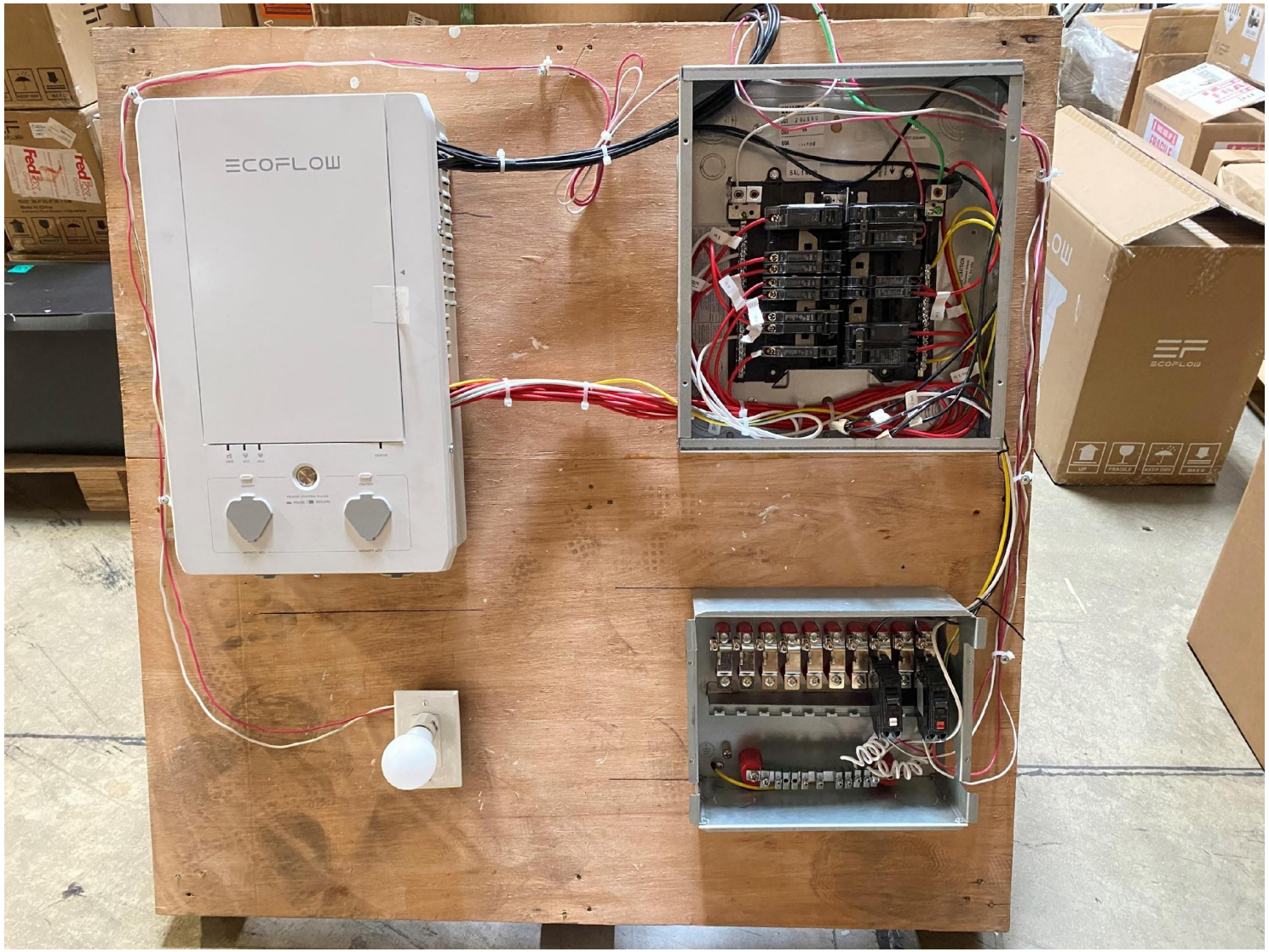
Key Points:

2. Ecoflow would provide the AFCI/GFCI conjunction box(as the right figure) if AFCI/GFCI breakers are needed on the loads.

3. AFCI/GFCI conjunction box only support Plug-in type breakers,



Typo Scenario2



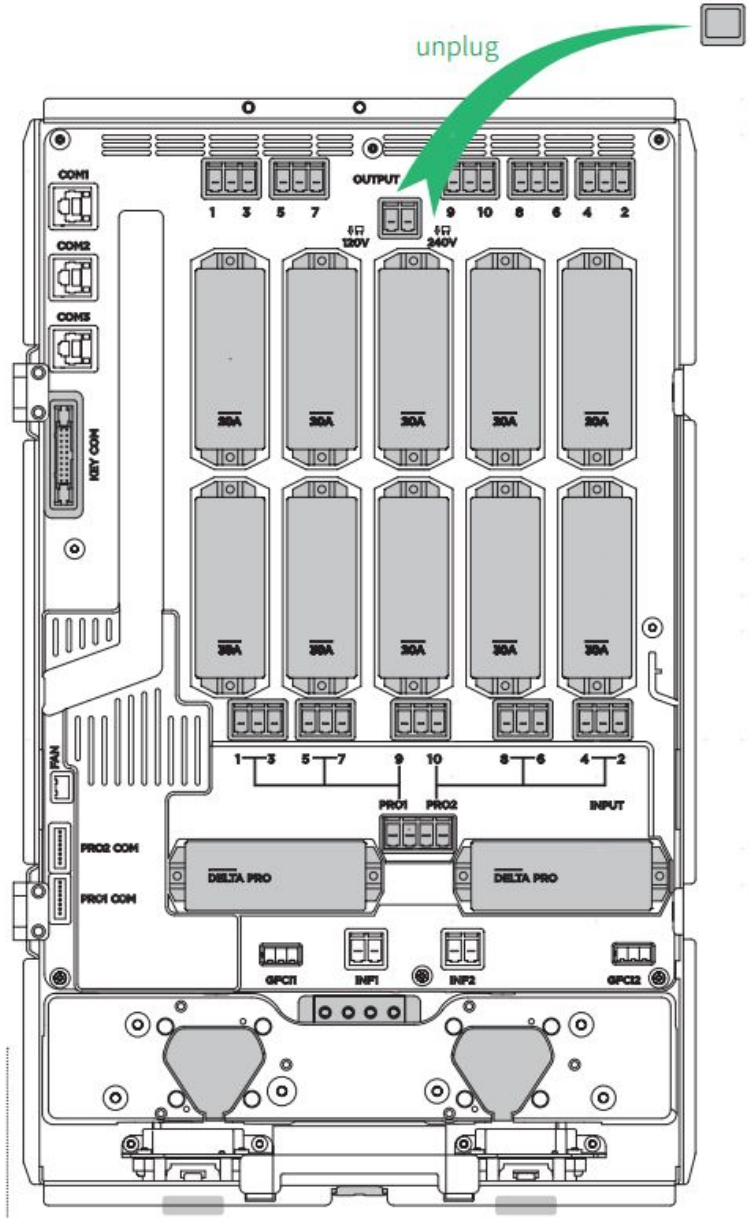
Scenario 3

Split Phase without AFCI/GFCI

Key Points:

1. The current rating of relay modules should match the upstream circuit breaker.

2. For split phase(240V), the Switching Connector should be removed permanently from the SHP.



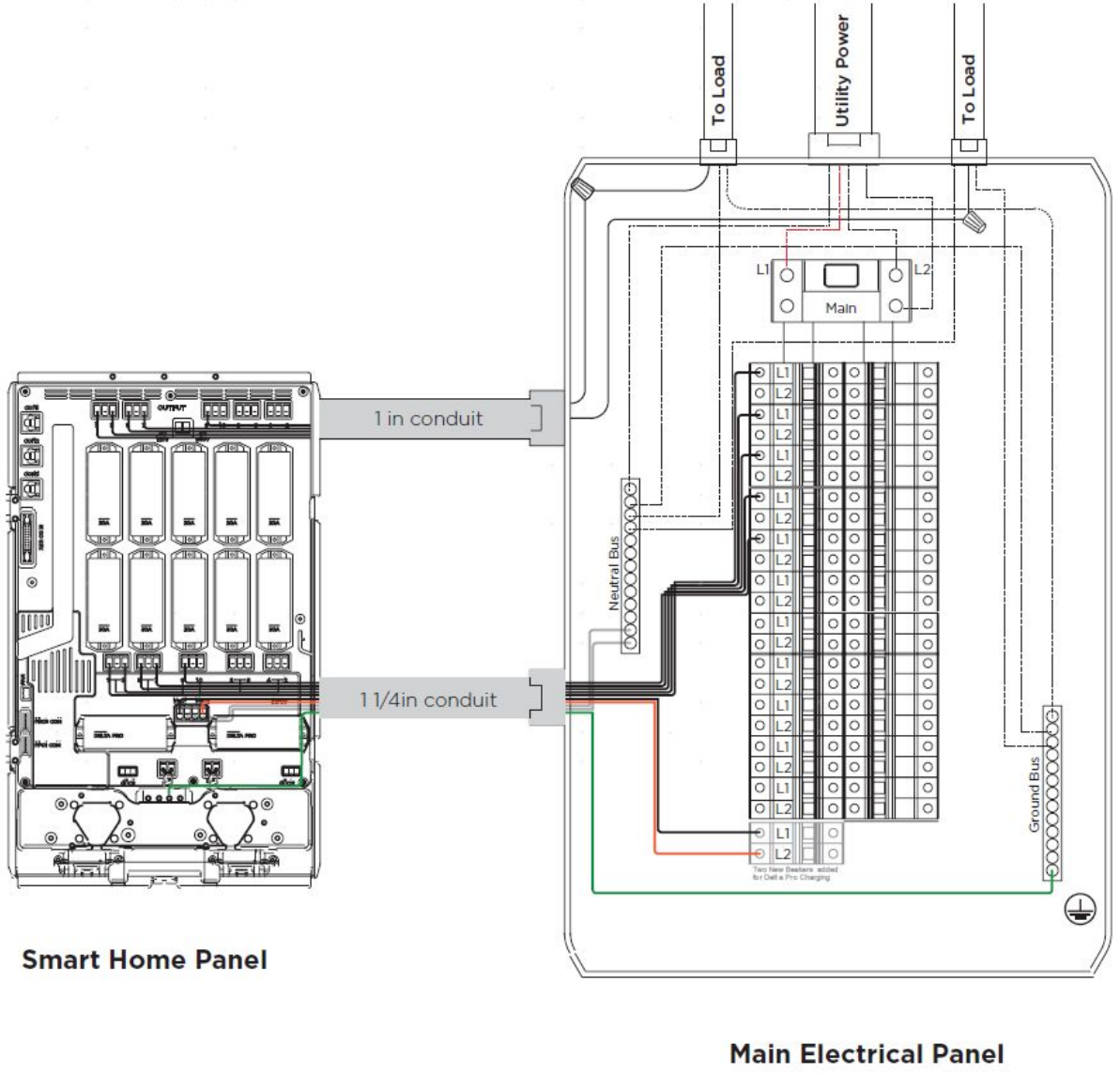
Scenario 3

Split Phase without AFCI/GFCI

Key Points:

3. The Channel 1, 3, 5, 7, 9 AC input should be connected with hot wires on the same phase, the Channel 2, 4, 6, 8, 10 AC input should be connected with hot wires on the **another** phase.

4. All input wires should be routed through the lower conduit into the SHP and output wires through the upper conduit.

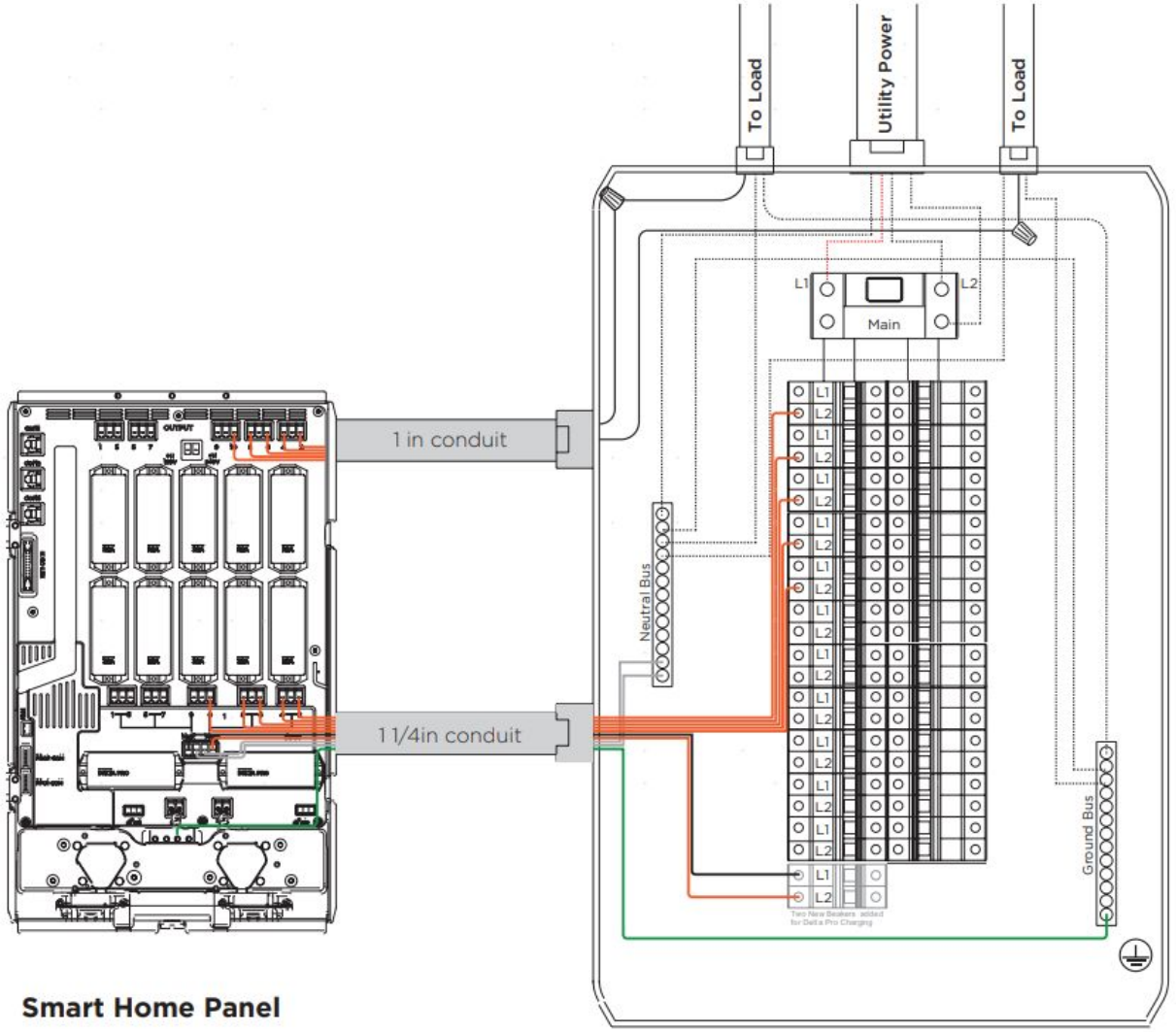


Scenario 3

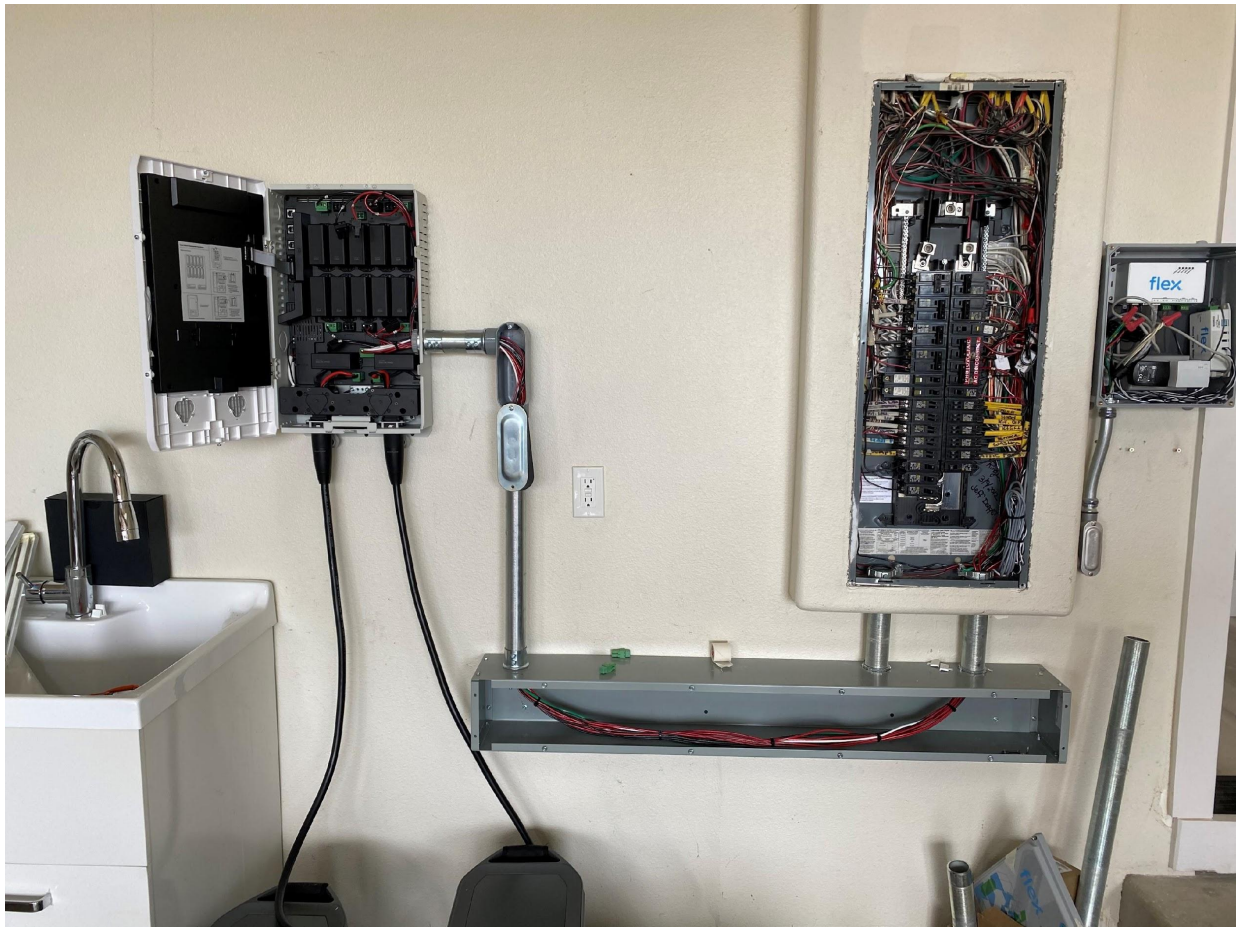
Split Phase without AFCI/GFCI

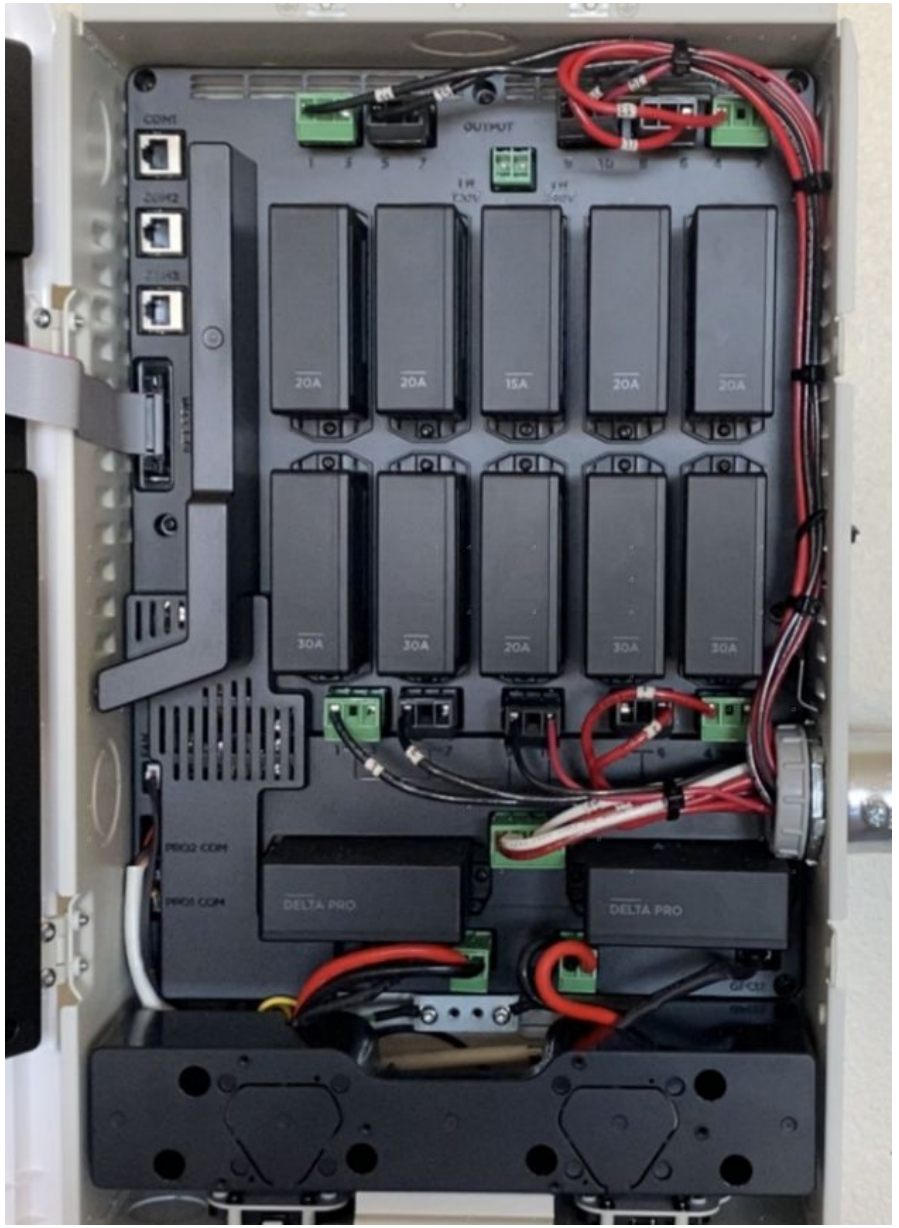
Key Points:

5. **The total output wattage (3600W for single Pro or 7200W for two Pros) should be greater than the total continuous running wattage of all backed up loads plus the largest start-up wattage of the loads with compressor building in like Pump, Refrigerator, Air Conditioner and Dryer.**



Realistic Scenario3



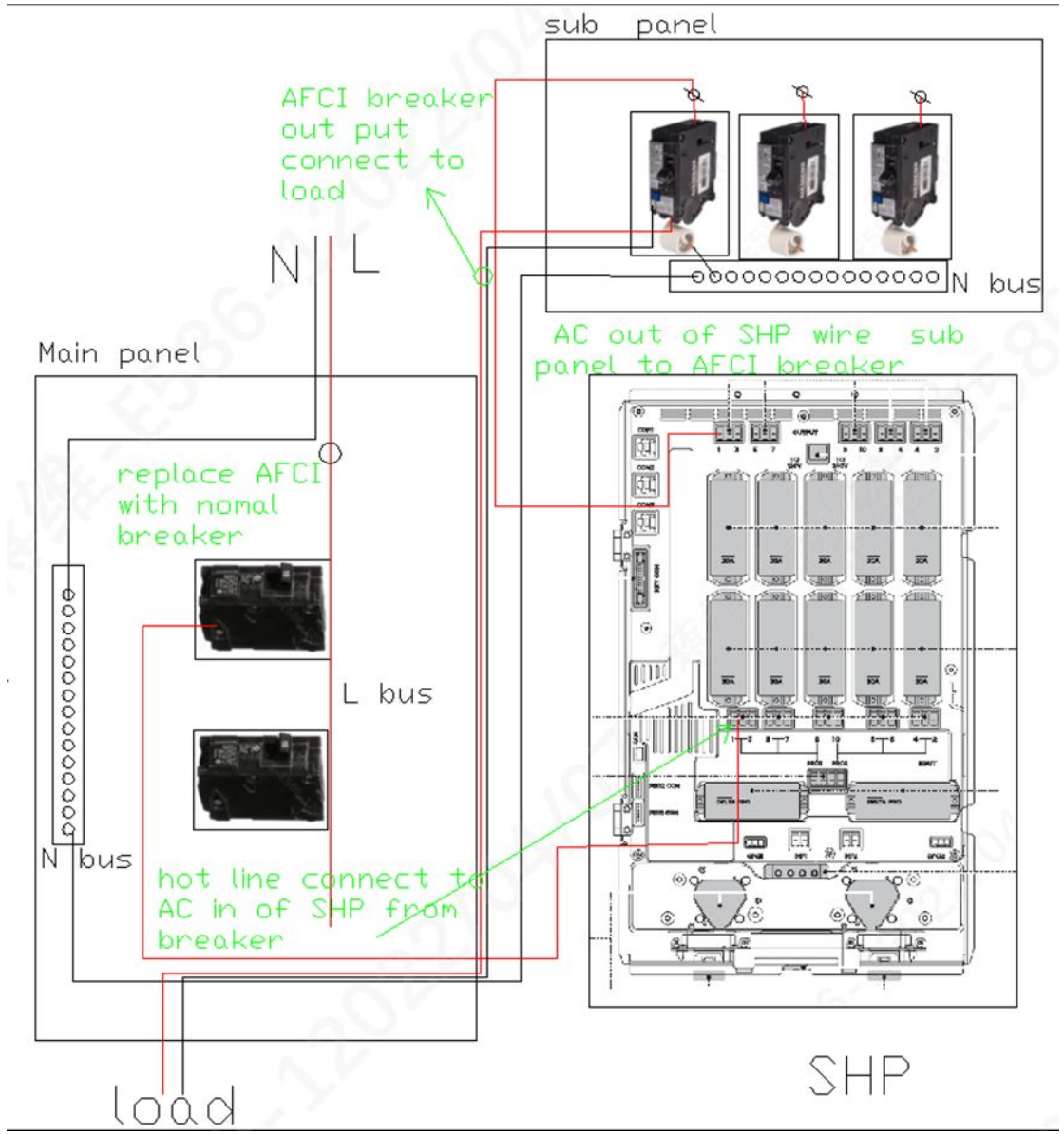


Scenario 4

Split Phase with AFCI/GFCI

Key Points:

1. All upstream AFCI/GFCI breakers should be replaced with conventional breakers and you may connect existing AFCI/GFCI breakers or use AFCI/GFCI outlets downstream to SMART HOME PANEL.



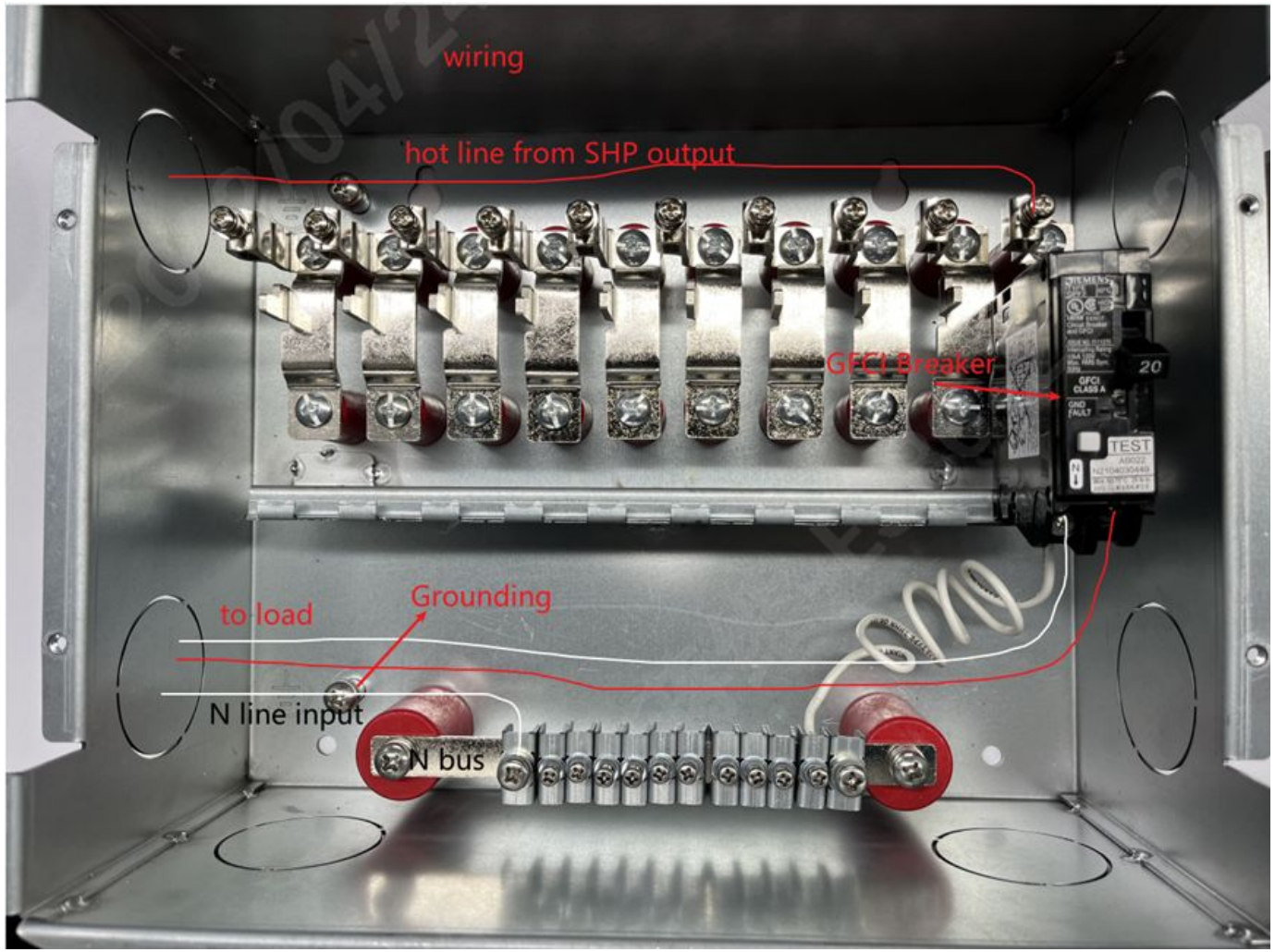
Scenario 4

Split Phase with AFCI/GFCI

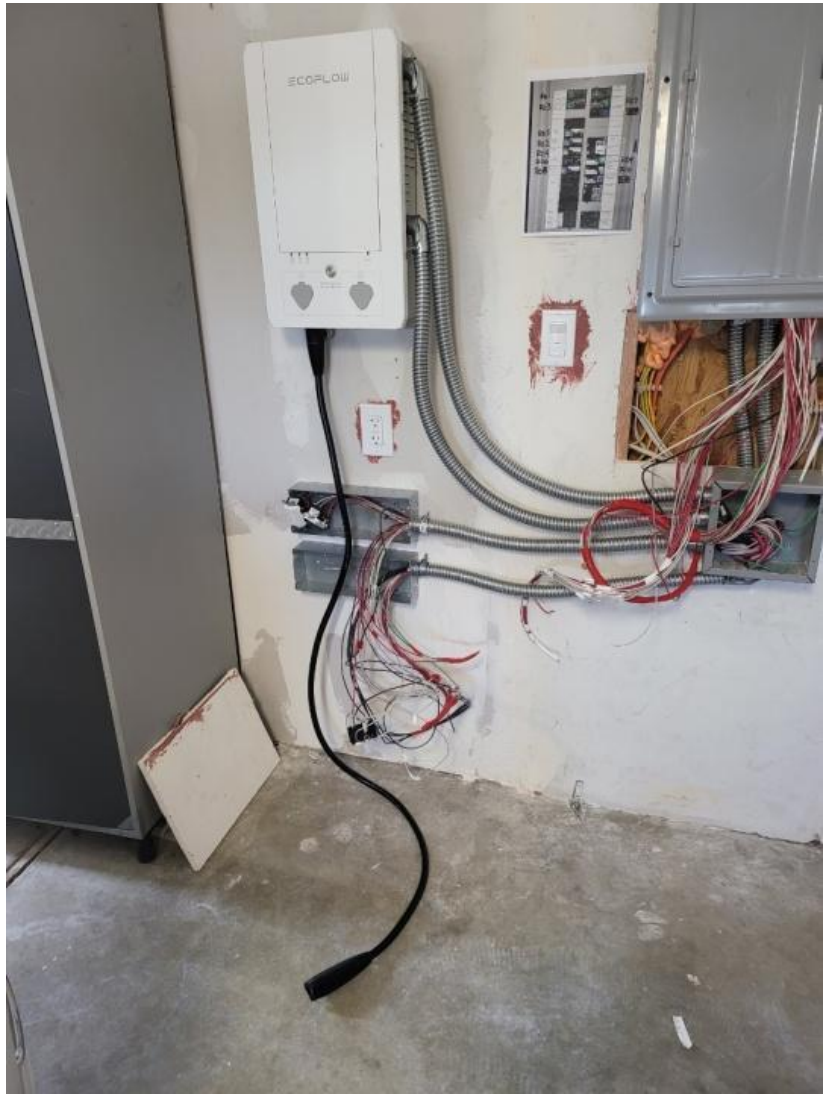
Key Points:

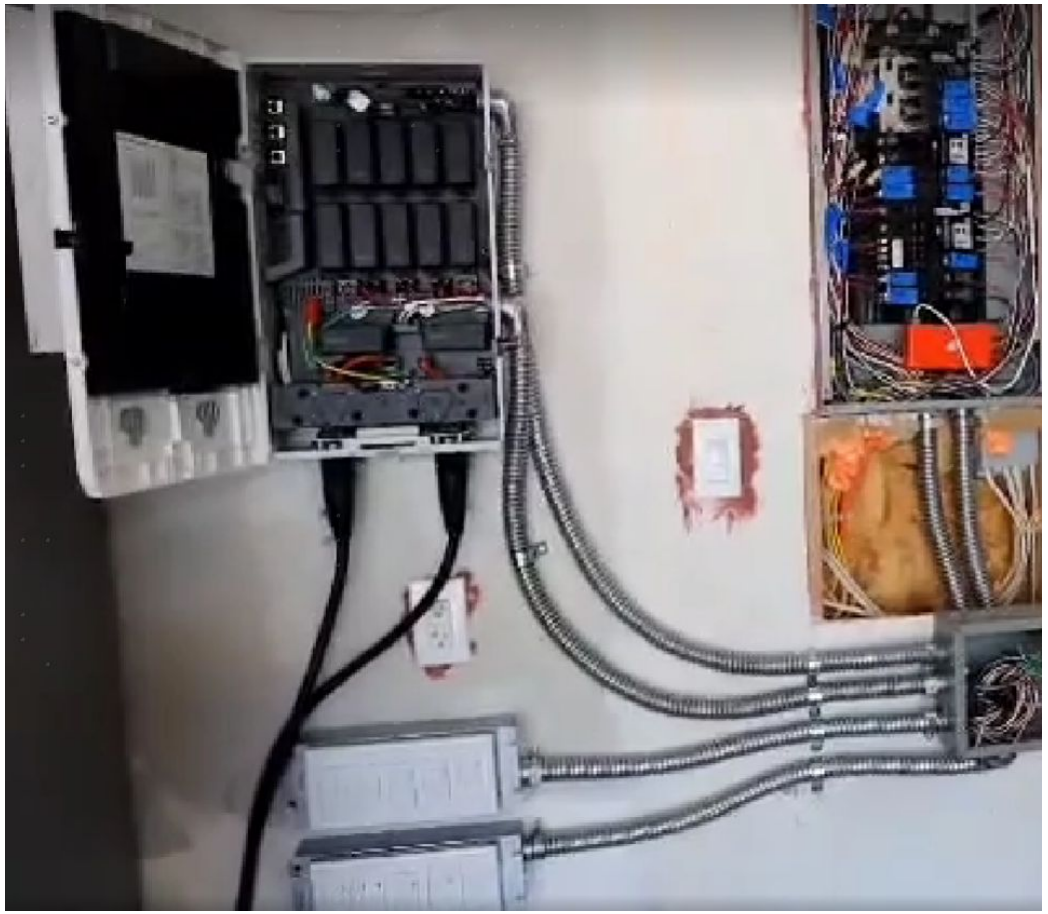
2. Ecoflow would provide the AFCI/GFCI conjunction box(as the right figure) if AFCI/GFCI breakers are needed on the loads.

3. AFCI/GFCI conjunction box only support Plug-in type breakers.



Realistic Scenario4





Commissioning

Grid Mode

Close upstream breakers
of 10 loads and DELT PRO

For more details, please refer to the checklist on the appendix

Commissioning

Back up Mode

Switch from grid mode to back up mode

For more details, please refer to the checklist on the appendix

Commissioning

Charging DELTA PRO

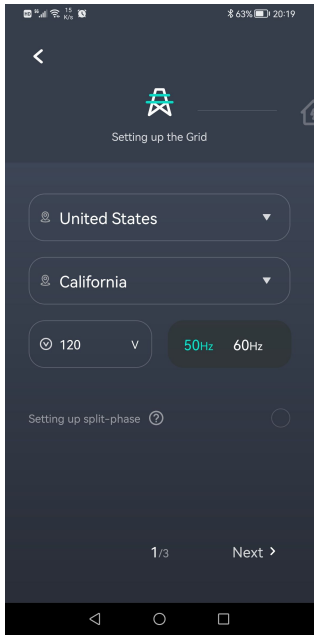
Charge the battery via manual setting or set up Automation

For more details, please refer to the checklist on the appendix

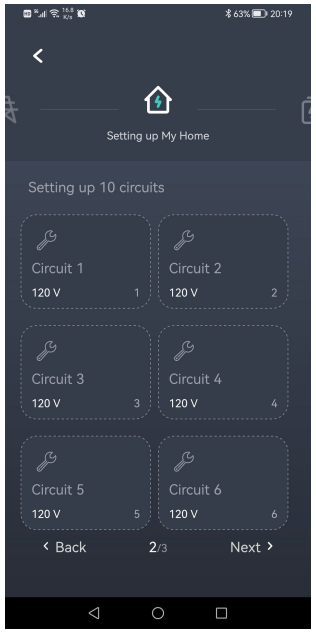
Commissioning

APP Initial

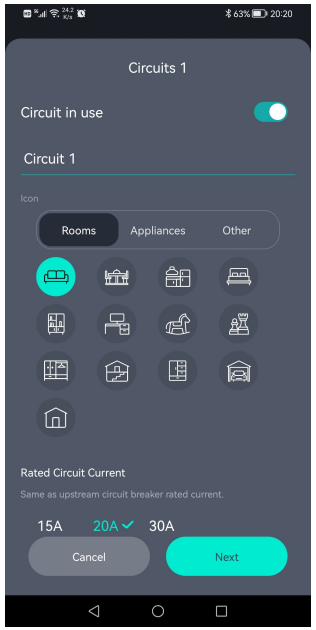
Setup



Select country, region, voltage, frequency

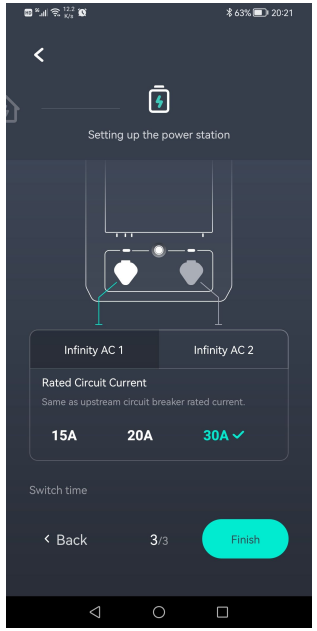


10 circuits setting interfaces

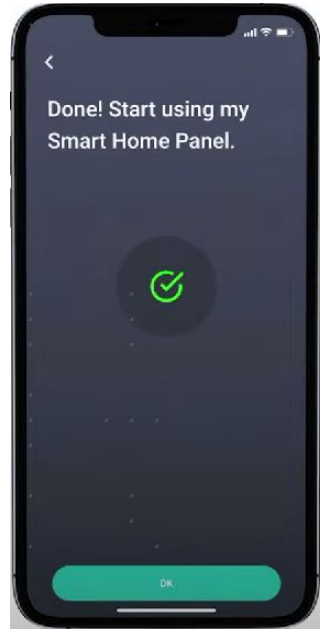


Set the circuit name, select the usage scenario, and the rated current

The 10 load circuits setup overview



Set up the DELTA PRO 1 and DELTA PRO 2 charge-discharge current



You are all set !

FAQs

1. Why there's no responding when pressing the AC1/AC2 button on the SHP with DELTA PRO plugged in?

a. Firmware incompatibility. Update the firmware for DELTA PRO to the latest version
b. Check the discharge/charge level setting on DELTA PRO setting page, the current SOC of the DELTA PRO must be greater than the discharge level .
c. Check the connection cable of the SHP and the DP

2. Can I press the button on the load circuit to power it on and off ?

a. No. Those are reset button for overload not switch button.

FAQs

3. Is it possible to plug and unplug the relay with power on?

a. For safety reasons, it is prohibited to plug and unplug relay modules with power on

4. Error prompts of Relay Module No Insert even the module has been installed

a. Ensure the relay module is fixed properly with 2 screws.

#APPENDIX

Check list of Smart Home Panel:

CL_SHP

Error code and solution of Smart Home Panel:

EC&S_SHP

Wiring diagram of Split phase:

SPWD_SHP

EcoFlow Smart Home Panel-APP User Manual:
https://drive.google.com/file/d/11TPhQsdt4Zm68mmcuW5quMfa0ShWgYA6/view?usp=sharing

Tutorial video of AFCI/GFCI conjunction box installation:
https://www.youtube.com/watch?v=f5B3PCMIadc

Tutorial video of Smart Home Panel Installation:
https://www.youtube.com/watch?v=1WKt8I4vL3k&t=402s

Tutorial video of How to use the Smart Home Panel:
https://www.youtube.com/watch?v=8zn_Kdhepfo

Power a New World

THANK YOU FOR WATCHING

ECOFLOW