



# Install Guide

Your Guide to Energy Independence



**Model 3X**

3.1.2

# What's in the box

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## **01 1 x Powerdiverter Model 3X**

- 1 x Wall fixing kit

## **02 2 x Sensor Clamps**

- Sensor Clamps are 5 meters long
- Sensor clamp extension cables can be purchased separately
- Sensor clamps can be extended up to 20 meters

## **03 1 x Multi Heating Element**

- The Multi 2 x 2.4kW heating element is supplied depending on the existing heating element size, size of hot water tank, and the average hot water usage. (your sales rep or installer will advise).



# Safety

## Please follow this guide carefully

- Use only the provided Powerdiverter Split Core Sensor Clamps.
- Please follow the installation and usage instructions carefully. If the equipment is installed or used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired and warranties will be void.
- **A qualified electrician must install this product.**



When fitting the current sensor clamp, follow the fitting instructions and check the safety of the electrical cables being handled. Parts of the electrical installation may have exposed live terminals. Consult a qualified electrician if in doubt before installing the sensor clamp.



Do not apply the current sensor clamp around or remove from hazardous live conductors. The sensor clamp must only be fitted to insulated cables. Switch off the circuit before commencing installation to avoid the risk of electric shock.



Powerdiverter has been designed and tested to conform to the latest Australian electrical, safety and product standards:

IEC 60730.1, AS/NZS 4777.2:2015, IEC 62109-1.4, AS/NZS 3000.

The solar diverter circuit shall be protected by a 30 mA RCD and of the Type specified by the manufacturer. The RCD shall be installed in accordance with AS/NZS 3000.



European Conformity is a conformity marking for products sold in the European Economic Area.



Waste Electrical and Electronic Equipment Directive is a European Community directive that requires you to take any waste electrical and electronic equipment to your nearest recycling facility.



Indoor use only. Unit should be installed in a location protected from weather and moisture. See the Powerdiverter website or your stockist for more information about suitable weatherproof enclosures.



## Installation Guide

# Step 1 —

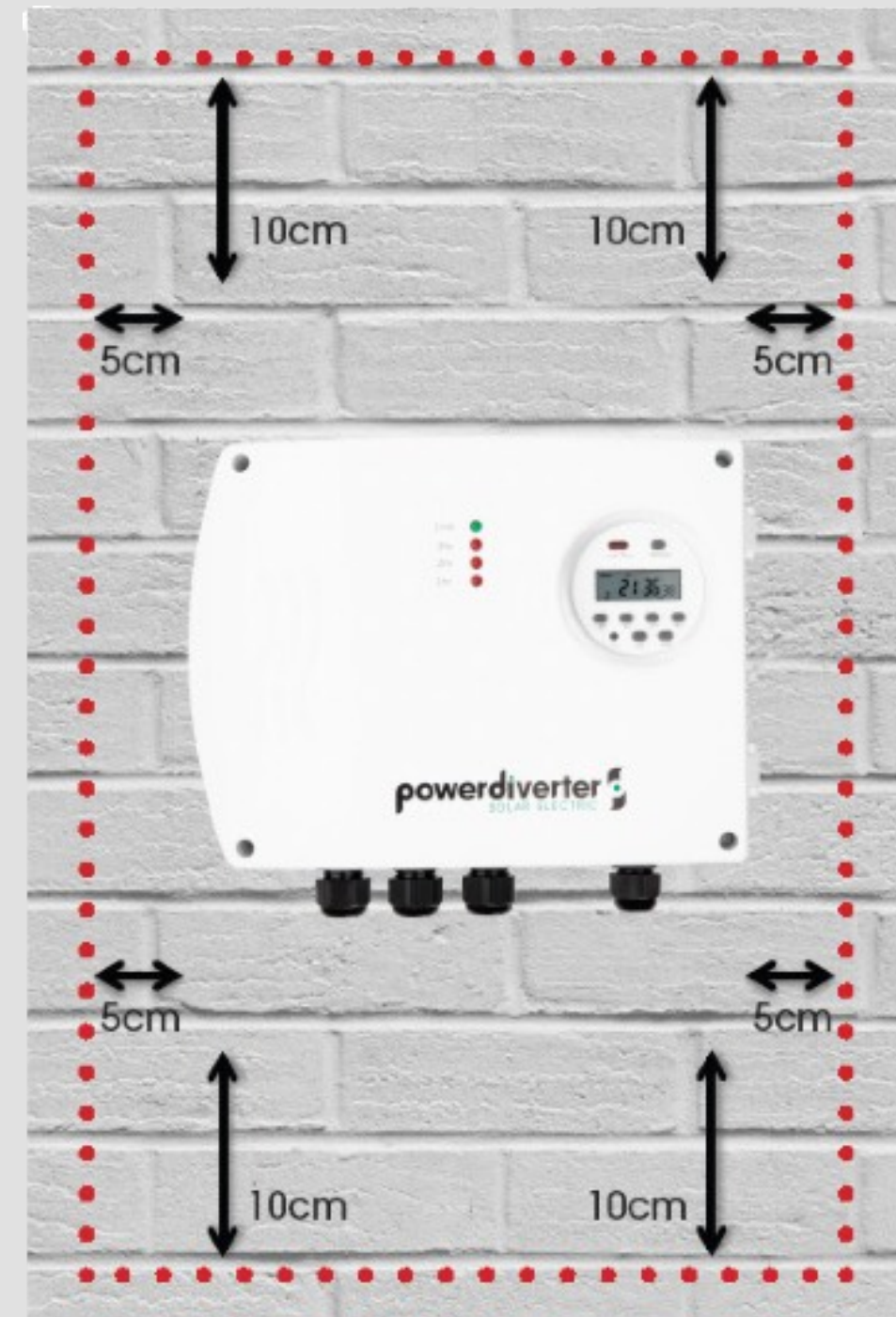
Please plan your installation carefully. The Powerdiverter can be installed in many configurations (please refer to the wiring diagrams within this guide before deciding on where you install the Powerdiverter).

ALWAYS install in a vertical position to allow cooling air to circulate from the bottom to the top vents on the Powerdiverter enclosure.

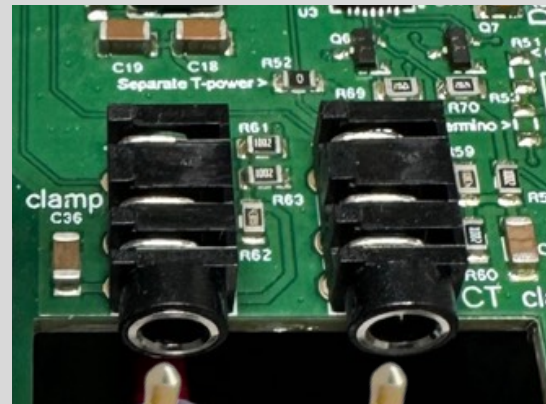
**Please ensure there is at least 10cm of clear space from the top and bottom and 5cm of clear space to each side of the Powerdiverter control unit for air circulation.**

Do not cover the unit with anything to block the air vents as the unit may become too warm and shut down to protect itself.

Check for cables and pipes before drilling or screwing into the wall!



# CT Sensor Clamps



## Left Sensor Socket

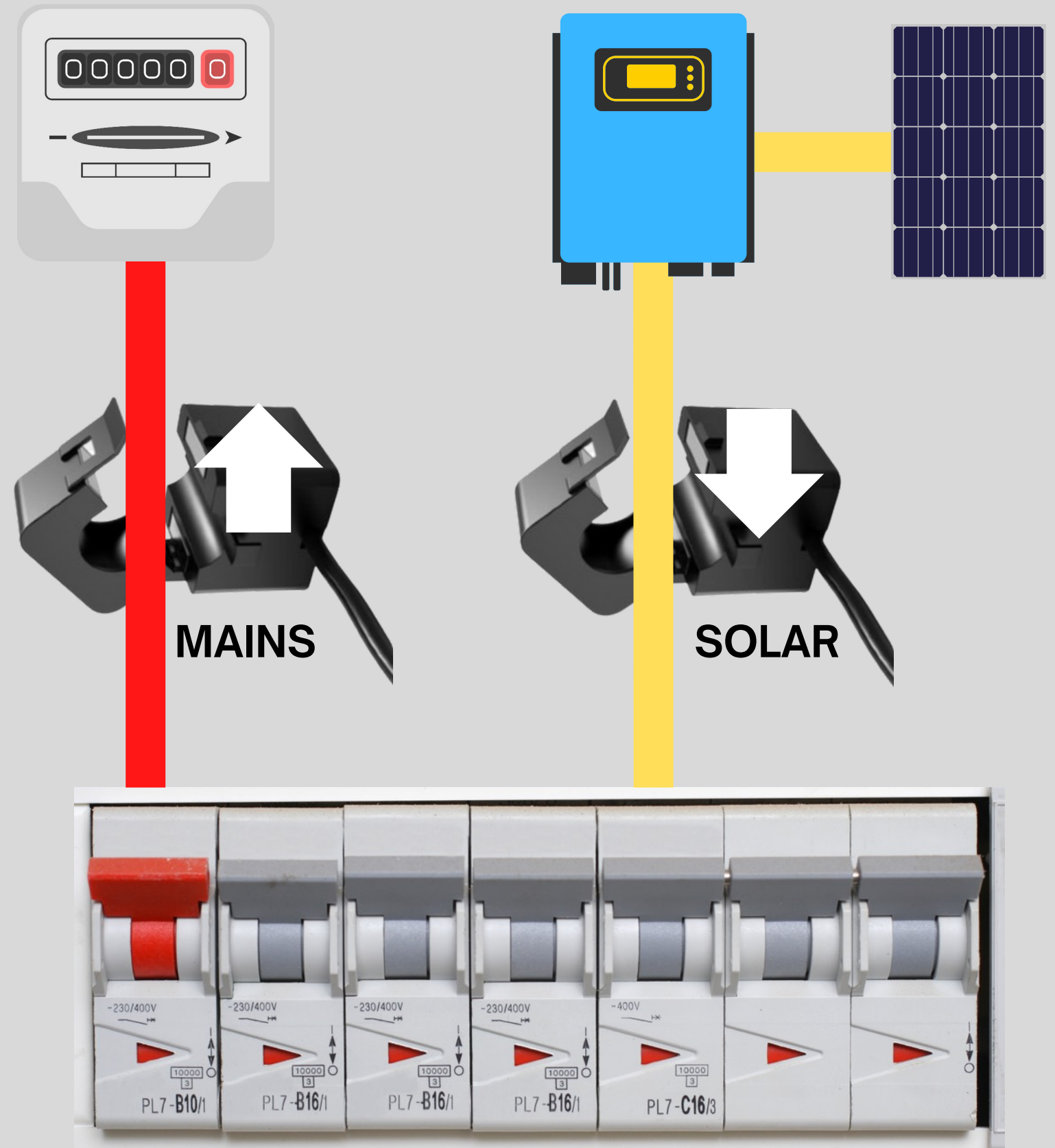
Measures Solar production only



## Right Sensor Socket

Measures Imported and Exported Power

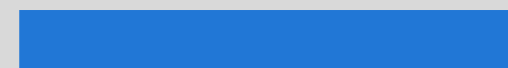
**Important - make sure the CT Sensors are clamped around the correct cables and the correct direction as shown**



# For Single Element Installations



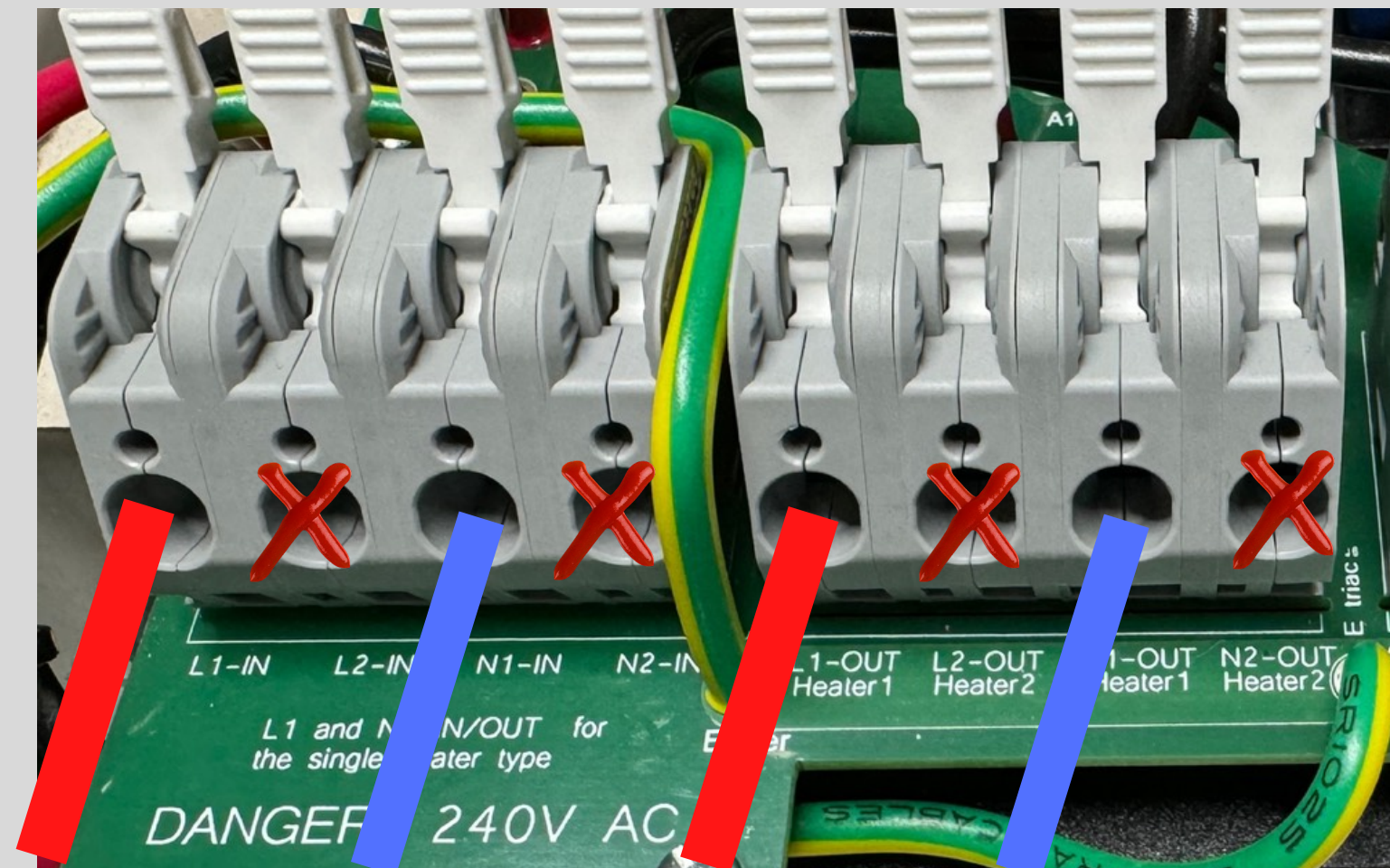
Red = L1 - IN



Blue = L1 - OUT



Green/Yellow  
= Earth Terminal



Only use L1 - IN  
and N1 - IN  
Inputs

Only use L1 - OUT  
and N1 - OUT  
Outputs



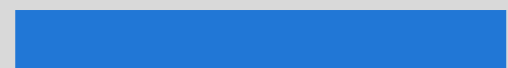
3 x Earth  
Terminals far right  
of the board



# For Dual Element Installations



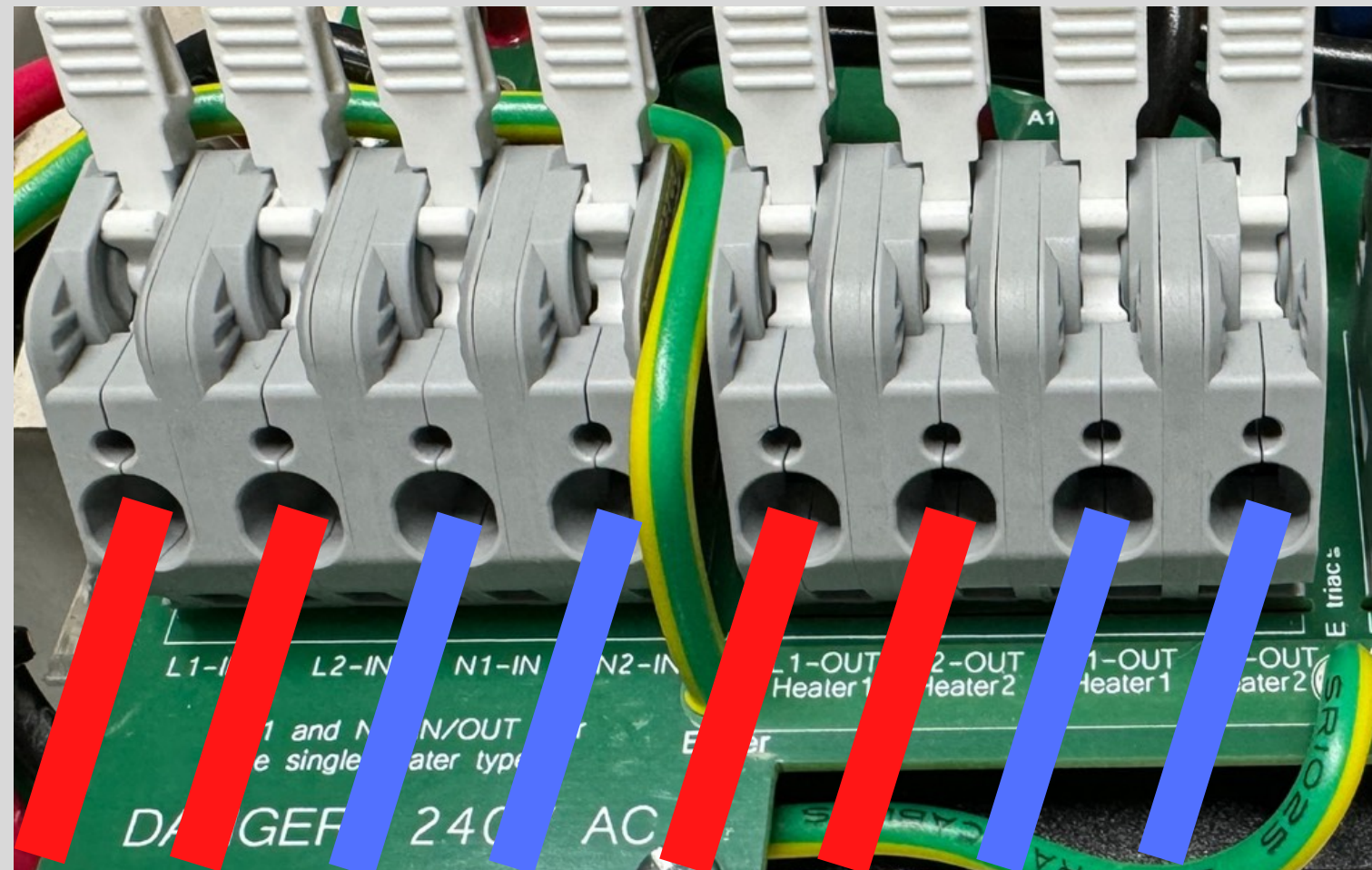
Red = L1 - IN



Blue = L1 - OUT



Green/Yellow  
= Earth Terminal



Only use L1 - IN  
and N1 - IN  
Inputs

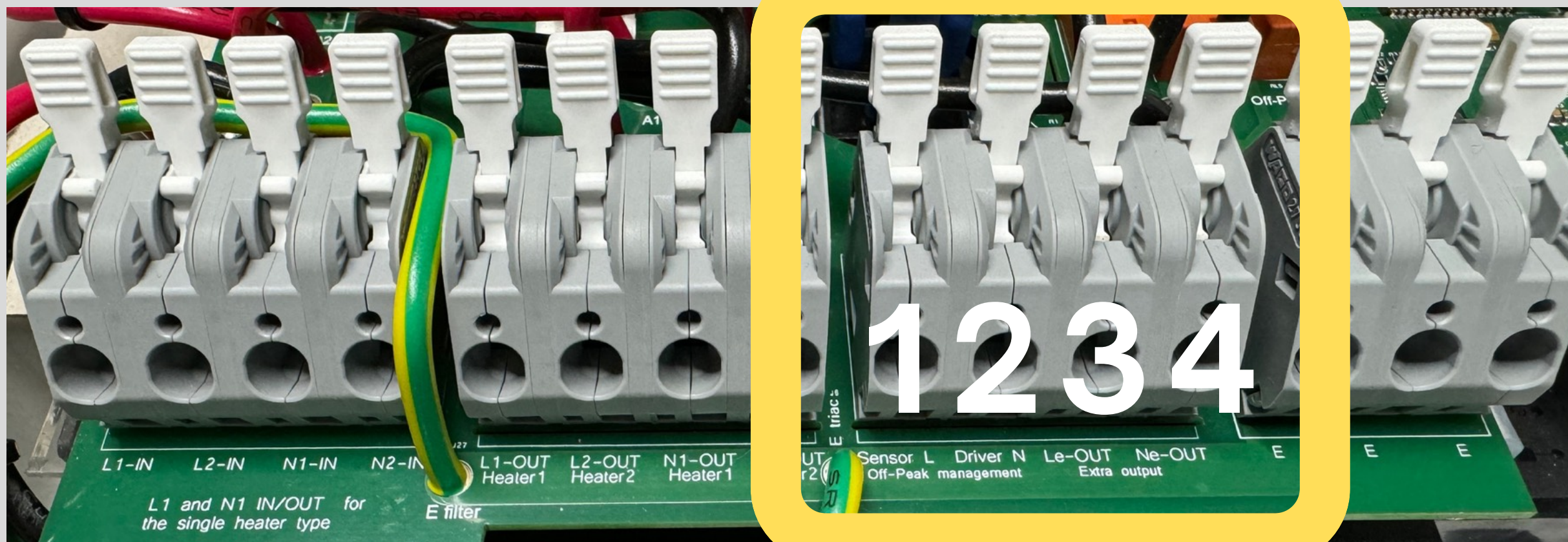
Only use L1 - OUT  
and N1 - OUT  
Outputs



3 x Earth  
Terminals far right  
of the board



# Extra Output & Off-Peak Control



## OFF-PEAK CONNECTIONS

- 1 Sensor L = Live IN
- 2 Driver N = Neutral OUT

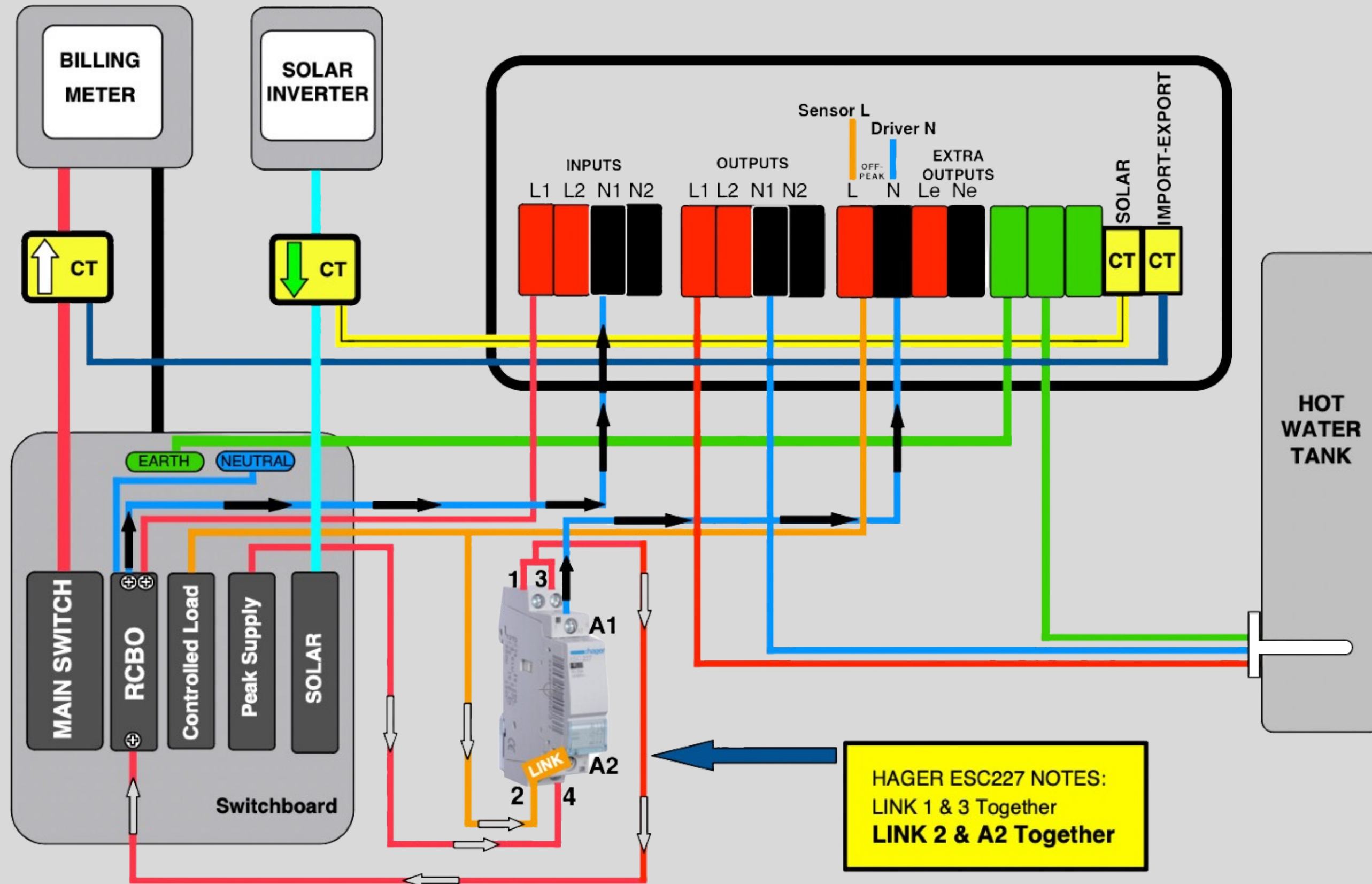
## EXTRA OUTPUT CONNECTIONS

- 3 Le = Live OUT
- 4 Ne = Neutral OUT

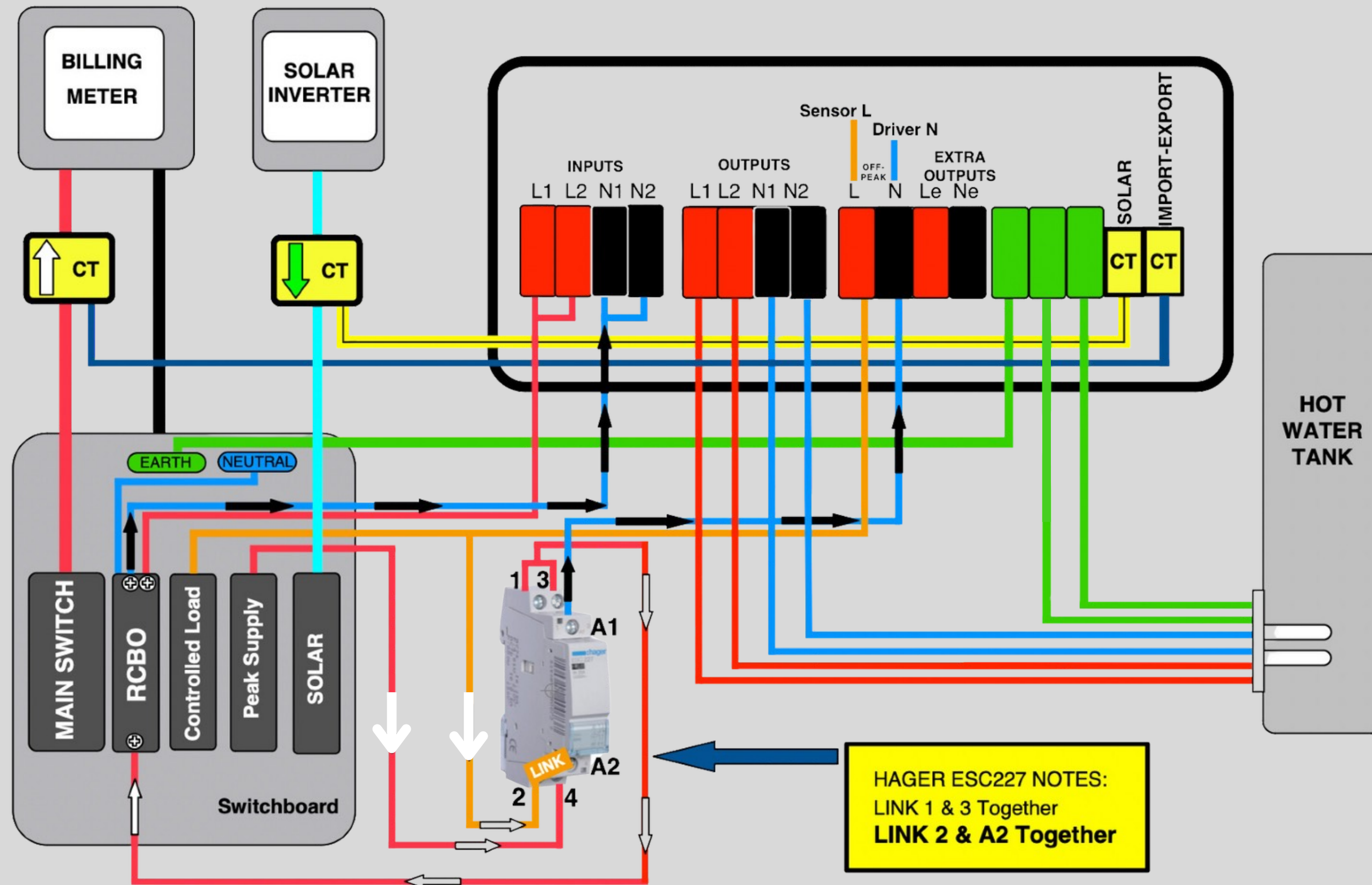
MAX 20 AMPS -  
EXTRA OUTPUT



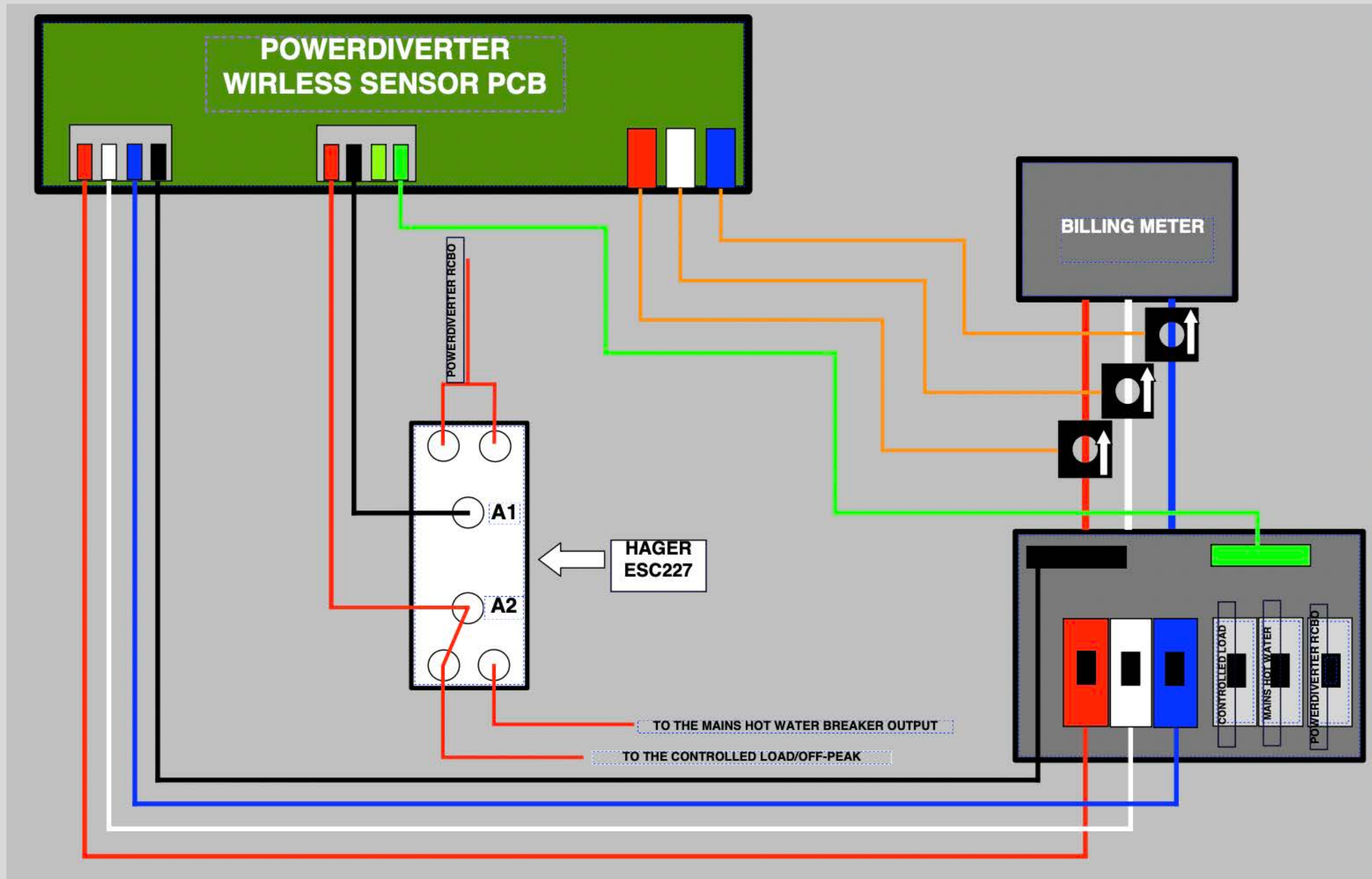
# Single Element Off-Peak Wiring Diagram



# Dual Element Off-Peak Wiring Diagram



# 3 Phase Wireless Sensor Wiring Diagram



# Getting Connected.....WiFi

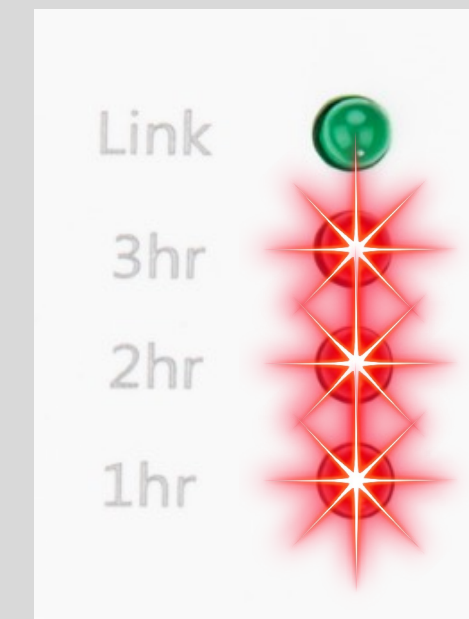
1

Turn On the Powerdiverter and wait a few minutes



2

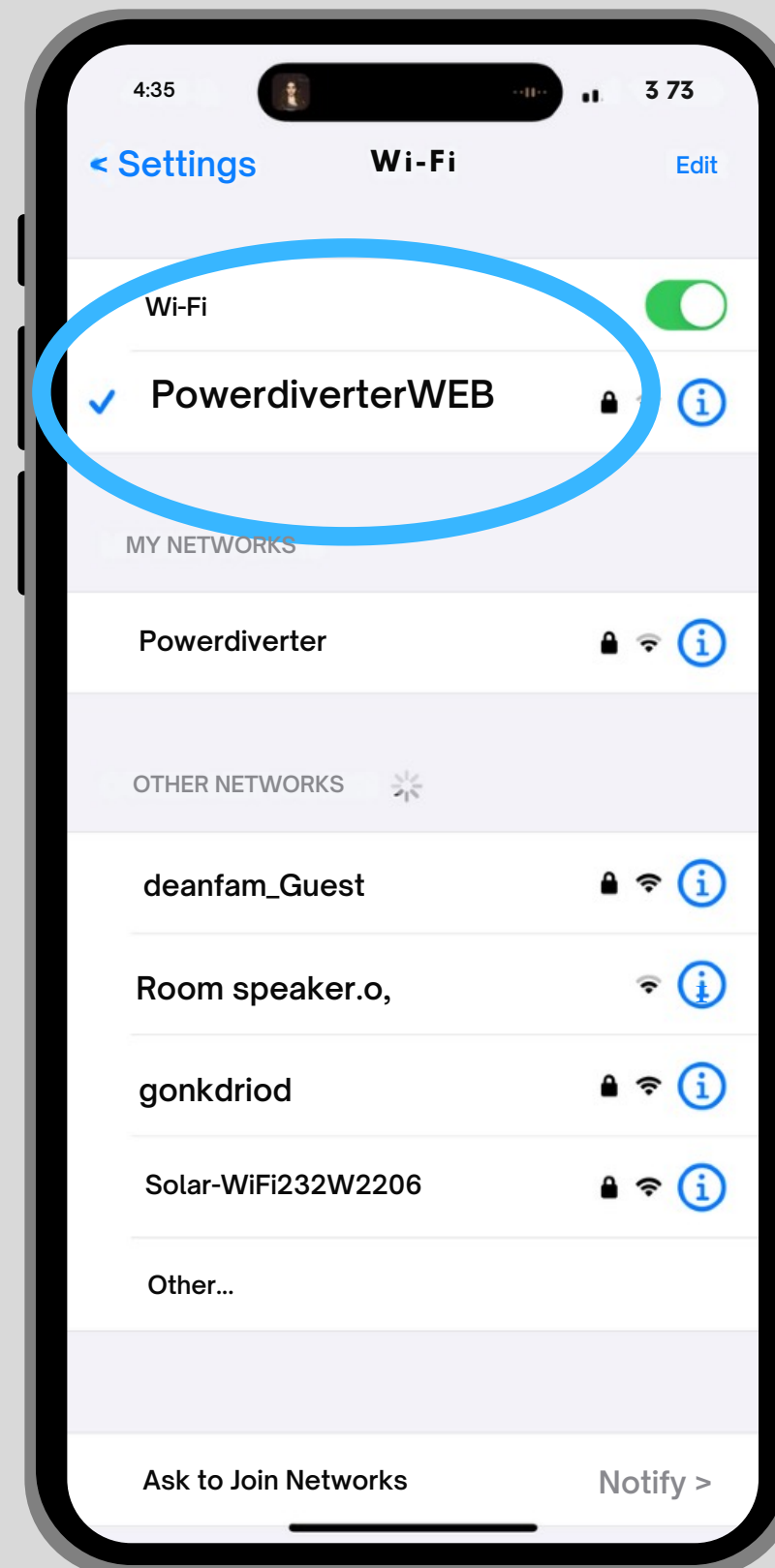
Press and hold the Red EasyBoost™ button until you see all three Red LED's flash together and then let go! You'll notice the Red LED's then stay on solid.



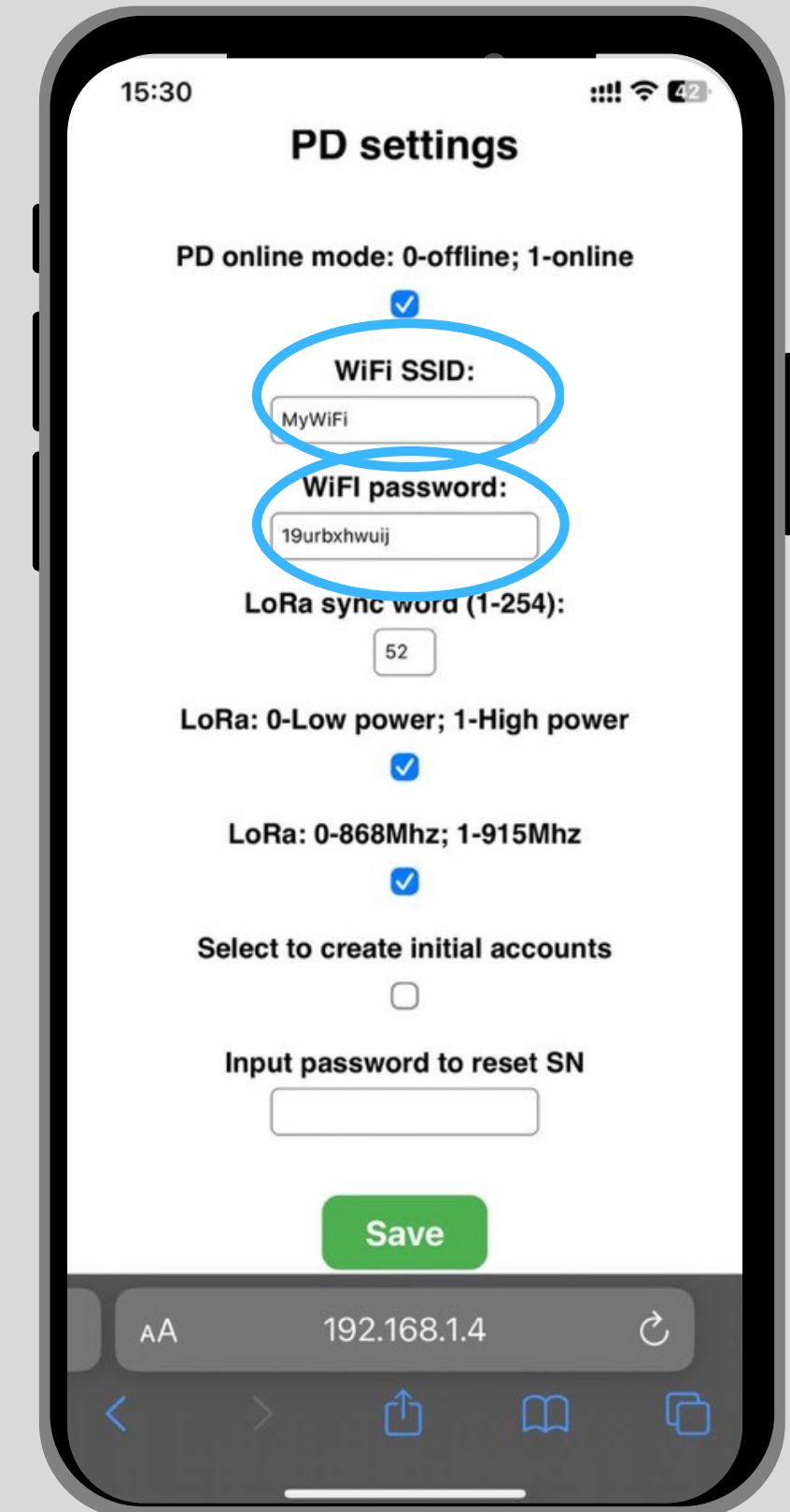
# Getting Connected.



- 01** Goto WI-FI settings in your smartphone and select **PowerdiverterWEB**
- 02** If prompted the password it is: **12345678**
- 03** Next: Open your web browser and enter the following into the search bar: **192.168.1.4**

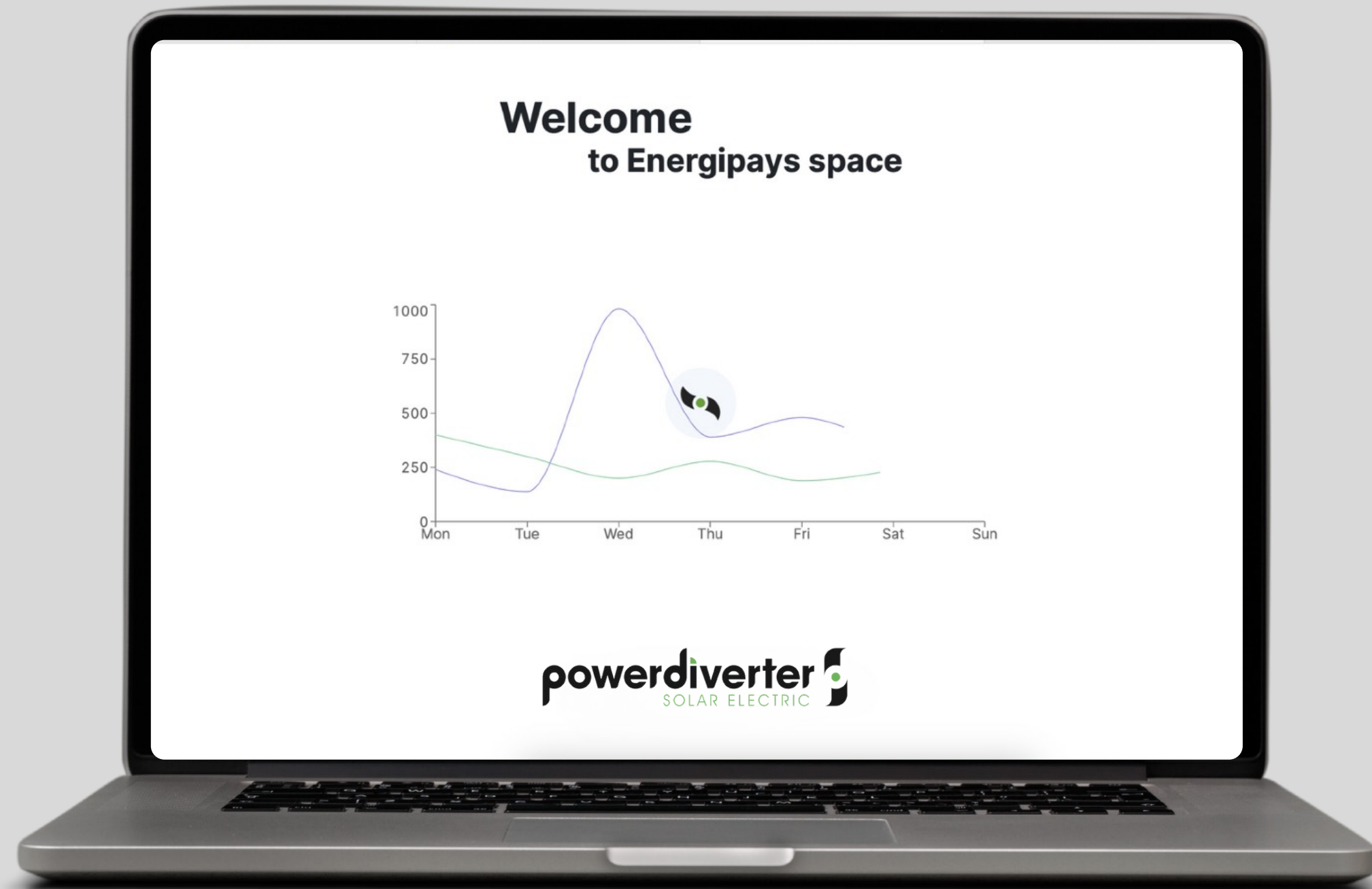


- 04** Enter your WI-FI Name/SSID and Password.
- 05** Press Save at the bottom of the screen when done.
- 06** Turn off the Powerdiverter breaker and turn back on.



# User Interface

## <https://energipays.com/sign-in>



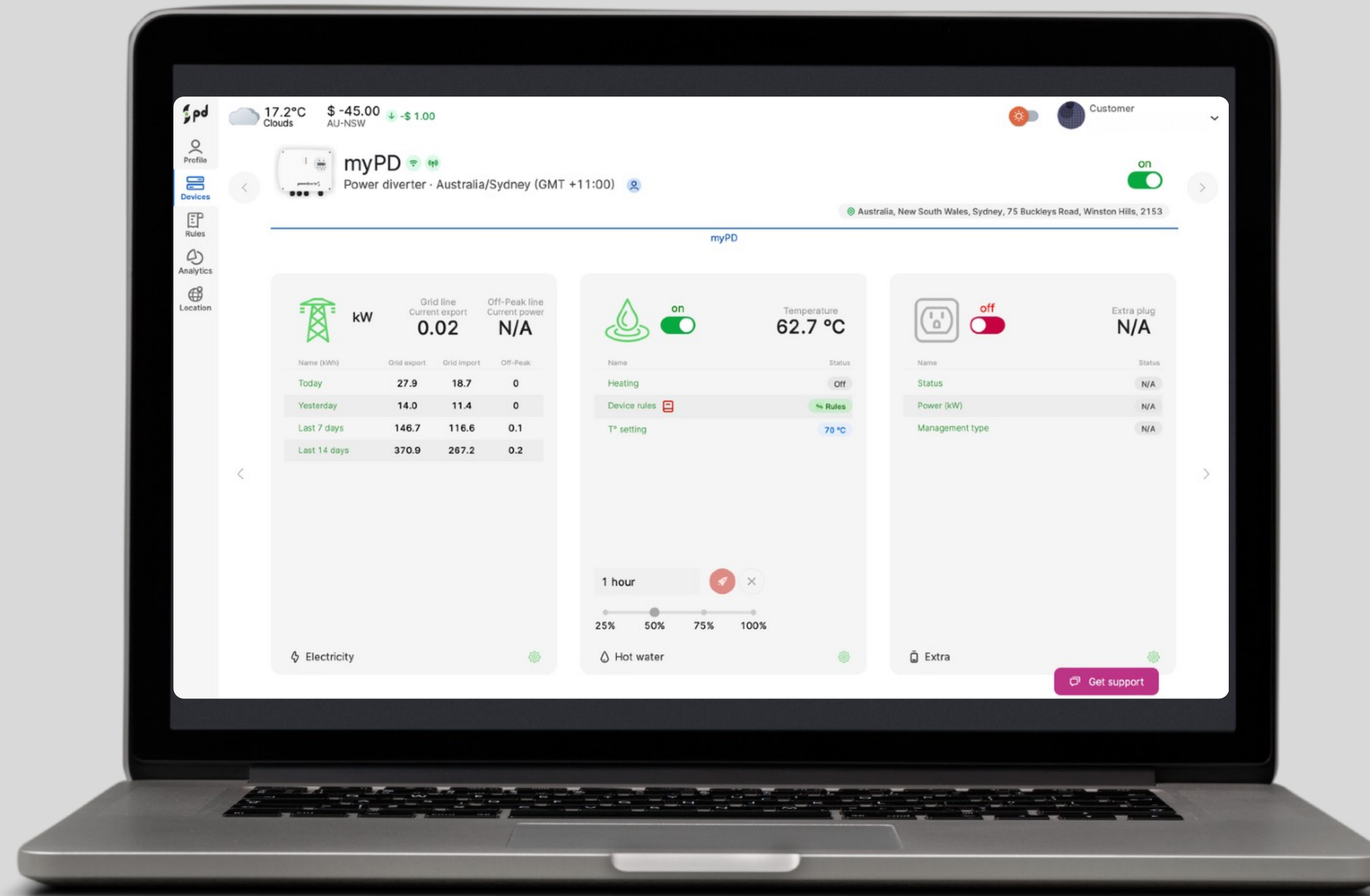
# Light Mode

## The Power is Now Back In Your Hands

**Monitor in real-time**  
Import/Export energy  
for your home or  
business.

**Live Data** - See the  
Tank temperature

*Smart Temperature  
Sensors are an optional  
extra*



**Remote Control** -  
Manually boost/charge  
your Hot Water Tank  
anytime - set boosting  
schedules.

**Extra Output** -  
Powerdiverter has an  
extra output allowing  
you to connect any  
device unto a  
maximum of 20 AMPS



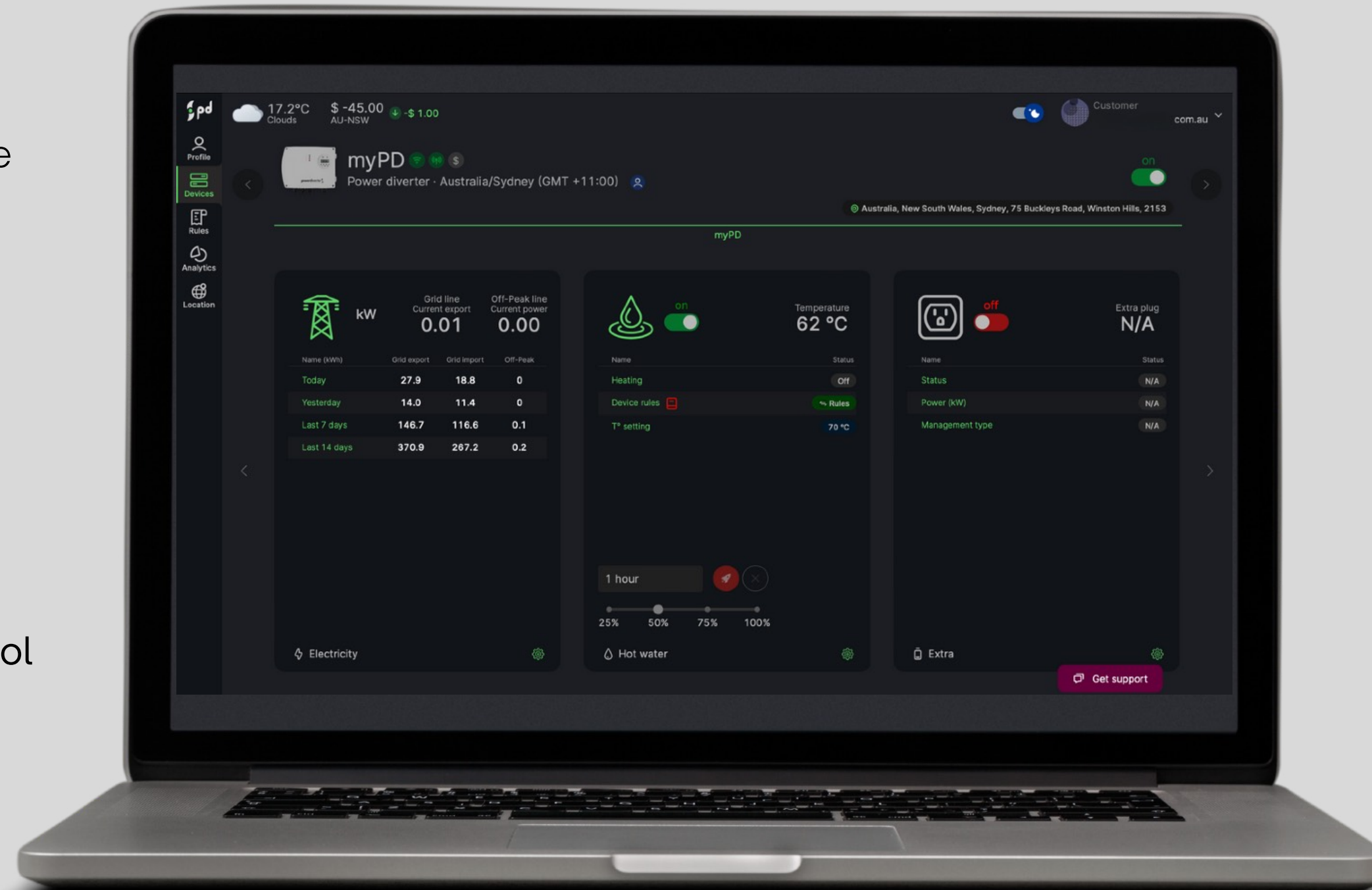
# Dark Mode Full Control

## Menu Bar -

User Profile  
Devices/Home Page  
Rules  
Analytics  
Location

## Highly Scaleable -

Add additional -  
Powerdiverters, EV  
Chargers, Security  
lighting, Air Con, Pool  
Pumps, Heatpumps  
and more.



## OTA -

Your experience will  
keep getting better  
over time with our -  
**Over The Air Update  
Capabilities**

## Pro Support -

After sales or  
Technical Support  
Use the message  
centre and talk  
directly to one of our  
team



# Amazing Analytics Real-Time & Historical Data

## Clean Graphics -

Intuitive enrgy flow data at your fingertips. No more guessing - Know where your power is being used.

## Historical Data -

See your solar generation, power consumption, export, and imported power in real-time.



## Peace of Mind -

No need to ask yourself “is my Solar PV system working” See real-time and historical data to check the performance of your solar investment

## Downloadable Data -

Download historical data in either CSV or PDF formats.



# RULES

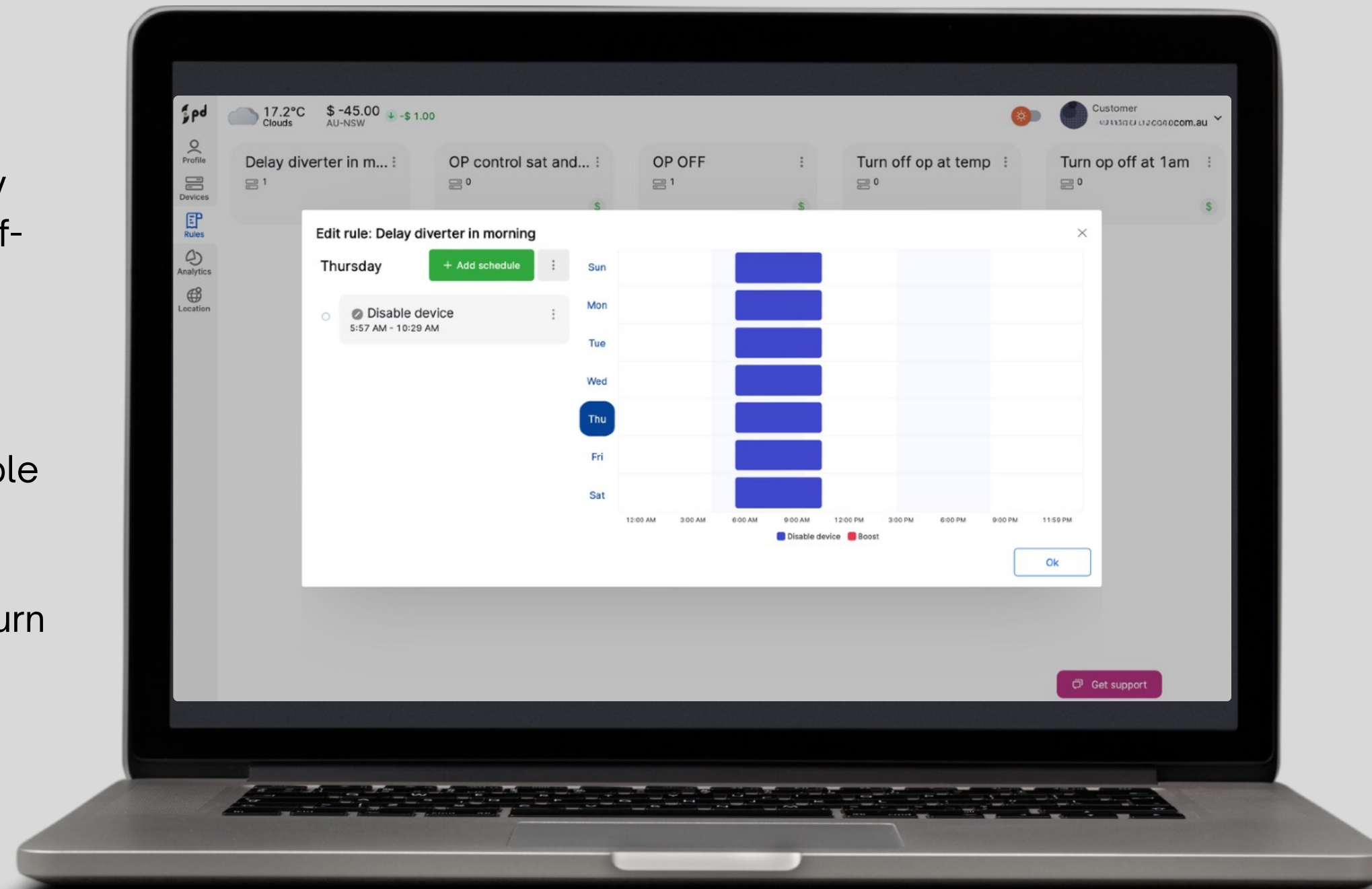
## Set Up Automatic Controls

### Boosting Schedules -

Easily set boosting schedules anytime day or night using Peak, Off-Peak Tariffs.

### Disable Devices -

Set schedules to disable devices to avoid peak tariffs. Left to go on holiday and forgot to turn off your devices - no problem!



### Off-Peak Control -

Auto isolate Off-Peak to avoid solar diversion interruption. Ultimate control over your energy!

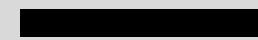
### Smart Controls -

Based on weather, live carbon emission data, wholesale pricing. Artificial intelligence Automations to optimise whole home energy.





# Thank You



**Contact us to learn more**

Energipays.com - Message Centre

[www.Powerdiverter.com](http://www.Powerdiverter.com)

[info@Powerdiverter.com](mailto:info@Powerdiverter.com)