



INSTALLATION GUIDE

ALL IN ONE + GIV-GATEWAY

GIV-AIO-13.5 | GIV-AIO-13.5-3.6 | GIV-AIO-13.5-4.6 | GIV-AIO-13.5-5.0 | GIV-AIO-GW1

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Introduction

All information contained in this booklet refers to the installation and maintenance of GivEnergy's All in One and Giv-Gateway. Please retain this manual for future reference.

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Installation Requirements

Installation of the GivEnergy All in One and Giv-Gateway must be carried out by a **GivEnergy Approved Installer**, in accordance with local wiring regulations, legislation around the installation of energy storage products, and a CEC approved battery installer.

Unit Information

The All in One contains a bidirectional inverter and a 13.5kWh lithium iron phosphate battery. When used with our Giv-Gateway, the system can provide whole home backup when a power outage occurs. The system can charge from the grid when prices are cheaper, and export stored generation when prices are at their peak. The Giv-Gateway interface features connections for a PV inverter, EV charger, grid and home storage battery.

Storing the All in One and Giv-Gateway

The unit must be stored in its original packaging at temperatures between -40°C - 70°C. Do not stack more than 5 units on top of each other.

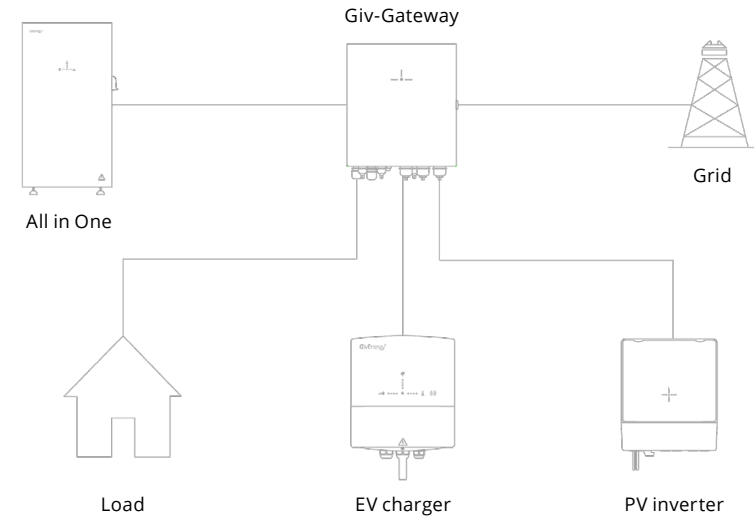
Packaging Contents

When unpacking, please check the following:

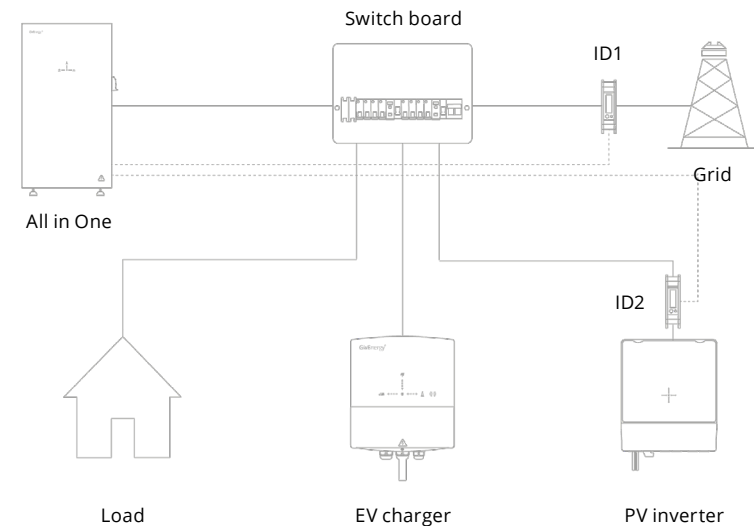
- ✔ There are no missing accessories from the packaging list
- ✔ The model and specification of the All in One and Giv-Gateway's nameplate match the order specifications
- ✔ Ensure the packaging and product are free from any damage

If any damaged or missing parts are found, please contact GivEnergy on **1300 GIVENERGY (1300 448 363)** or email info.aus@givenergy.com immediately and your distributor. Returns must be provided in the original or equivalent packaging. The Giv-Gateway's cardboard packaging is recyclable.

With Giv-Gateway



Without Giv-Gateway





ROBUST AND FLEXIBLE

A great addition to any smart home

Primarily working as an on grid system, the All in One can deliver 7.2kW of peak power* into the home on top of any solar generation.

Complete with a substantial 13.5kWh usable battery pack that stores excess generation. Featuring a modular design comprising 4 removable battery packs, allowing for ease of handling and installation.

Specifications

Dimensions

1100H x 280D x 600W (mm)

Weight

173.7 Kg

Noise Emission (typical)

<30dB

Environmental category

Suitable for outdoor and indoor installations.

Environmental category

Outdoor

Pollution degree

2 (Giv-Gateway), 3 (All in One)

Operating temperature

-10°C to 50°C

Depth of Discharge

100%

Connectivity

WiFi, LAN and 4G

Warranty

10 years

Ingress protection rating

IP65

AC Max. Output Rating

3.6kW / 16 A Peak/continuous
 4.6kW / 20 A Peak/continuous
 5.0kW / 22 A Peak/continuous
 7.2kW / 32A Peak/ 6kW / 27A continuous

Model numbers

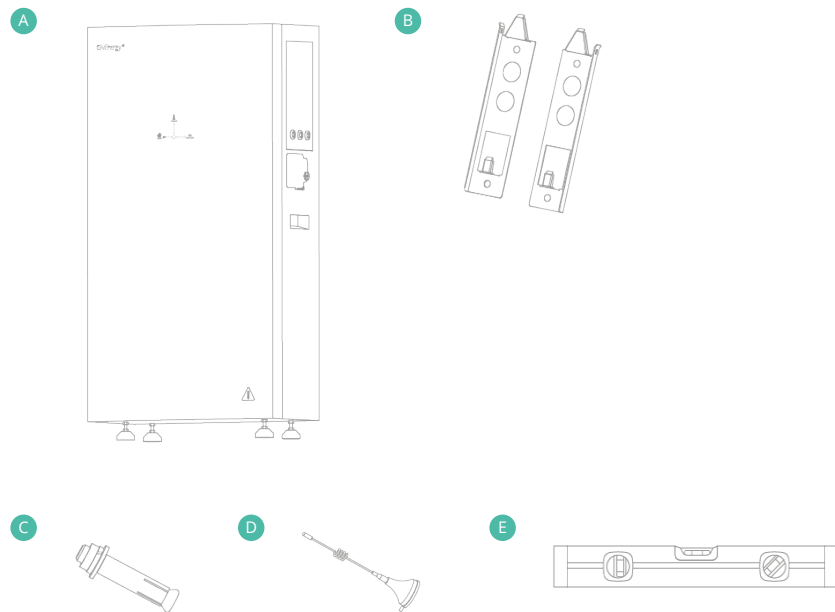
GIV-AIO-AC-13.5-3.6 + Giv-Gateway
 GIV-AIO-AC-13.5-4.6 + Giv-Gateway
 GIV-AIO-AC-13.5-5.0 + Giv-Gateway
 GIV-AIO-AC-13.5 + Giv-Gateway
 GIV-AIO-AC-13.5-3.6
 GIV-AIO-AC-13.5-4.6
 GIV-AIO-AC-13.5-5.0
 GIV-AIO-AC-13.5

All in One Installation

** Peak power is for off grid operation) only
 Product has not been tested to Section 5 of AS/NZS 4777.2:2020 for multiple inverter combinations.*

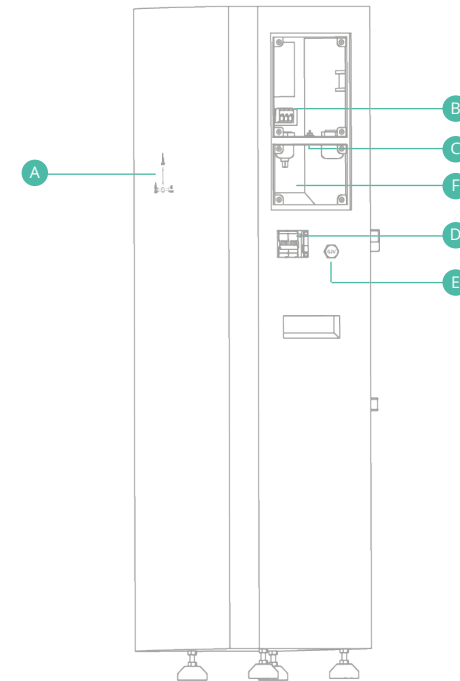
ALL IN ONE BOX CONTENTS

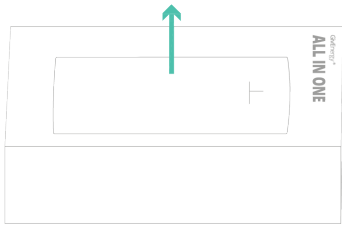
Item	Item Name	Qty
A	All in One Unit	1
B	Bracket	2
C	Expansion Bolt	4
D	WiFi Antenna	1
E	Spirit Level	1



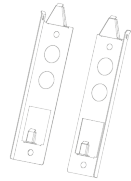
ALL IN ONE COMPONENTS

Item	Item Name
A	Power Flow Indicator
B	AC Supply Terminals
C	WiFi Antenna
D	DC Circuit breaker
E	On / Off Switch
F	Cable entry point





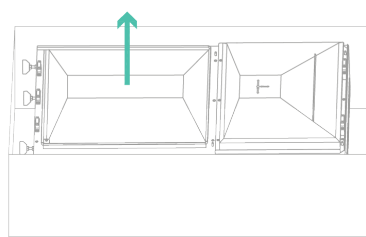
1. Remove top cover from the wooden crate, ensuring to wear gloves and taking care when bending the metal tabs.



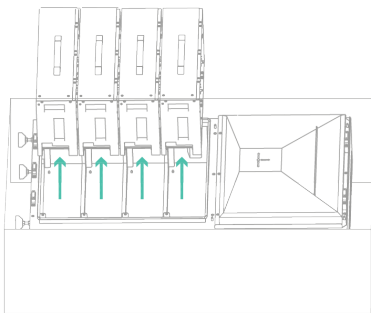
2. Remove the All in One brackets, template, and accessories and place to one side



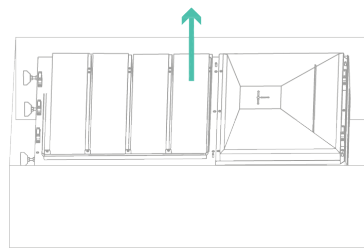
3. Remove the foam and then the front cover of the All in One



4. Remove bottom waterproof cover of the All in One



5. Remove the battery packs, leave to one side



6. Remove All in One case from wooden crate (2 person lift)

Dos



The system must be installed in an easily accessible location, the status display must be visible and not obstructed



Please ensure that the wall to be mounted on is sufficient enough to hold the weight of the All in One and Giv-Gateway (if fitted)



The system must be installed in a well ventilated area, the ambient temperature should be below 40°C to ensure optimal operation



The system must be installed vertically with connections always positioned at the bottom, never install horizontally, and avoid tilting the unit



The system must be installed under a canopy if installing externally unless fully shaded



The feet of the All in One are designed to be above the frost-line at a minimum of 50mm



You must comply with local battery and inverter installation guidelines and regulations

Don'ts



Do not use the system if the temperature exceeds 45°C



Do not install in direct sunlight or near water sources



Do not use the equipment if there are any deformities, such as bulging or leakages



Do not puncture the equipment



Do not throw the equipment or use forceful impact



Do not attempt to repair the equipment yourself (please call your Approved Installer)

SAFETY INSTRUCTIONS

Extra care and attention must be taken when installing and maintaining any GivEnergy equipment. The system is capable of retaining a high voltage, even when disconnected.

- If you suspect something is wrong with the system, contact GivEnergy on **1300 GIVENERGY (1300 448 363)** or email info.aus@givenergy.com.
- If any damaged or missing parts are found, please contact GivEnergy on **1300 GIVENERGY (1300 448 36)** or email info.aus@givenergy.com immediately. Returns must be provided in original or equivalent packaging, for safe transport please refer to our UN38.3 certificate
- All electrical installations must be carried out by a qualified and registered electrician and in accordance with the local wiring regulations
- During operation, the heat sink may become hot. Do not touch the heat sink at the sides, or the top of the inverter when in operation
- The system is designed to be connected to the grid; connecting your inverter to a generator or other power source can result in damage to the inverter or external devices and may invalidate your warranty
- All GivEnergy equipment must be installed by a GivEnergy approved installer
- Ensure all components are attached securely
- Ensure the All in One and Giv-Gateway are always fixed to the wall using the mounting bracket
- Any errors are shown with a red LED, for full descriptions please refer to the GivEnergy monitoring portal

CLEARANCE AND MAINTENANCE

Space Clearance

There must be adequate clearance around the All in One to allow for heat dissipation. The diagram below illustrates the space required around the system.



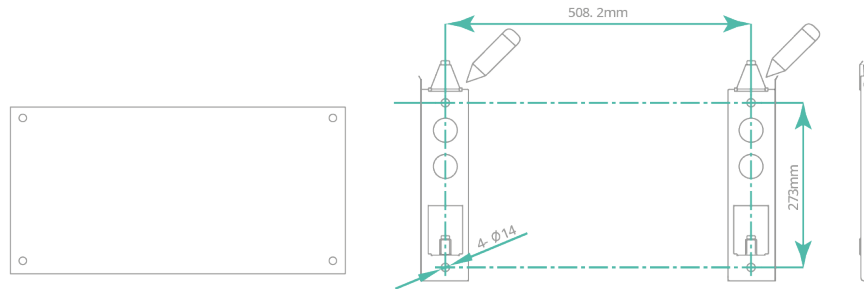
Maintenance

When maintaining and cleaning the All in One, the whole system must be powered down. Please refrain from using cleaning products on the surface of the All in One. Ensure that the heat sink is free from blockage to allow proper air flow. Check that no cables, isolation points, or the casing itself are physically damaged.

To ensure your All in One operates optimally at all times, annual maintenance checks need to be carried out. Check for visible damage or discolouration of the switch, and that the cables are intact. Please ensure that the top of the All in One is not obstructed in any way.

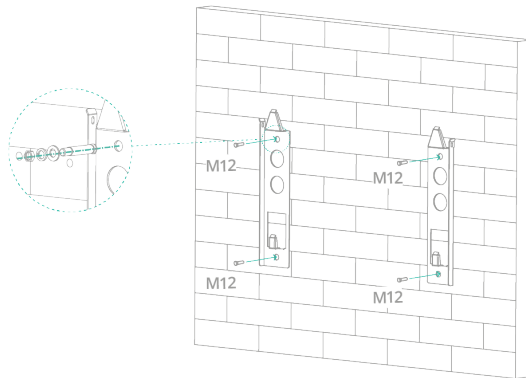
ALL IN ONE STEP-BY-STEP INSTALLATION

Step 1: Place the wall mounting template horizontally onto the wall and mark the position of the bracket holes. Drill 4 holes at the marked positions, at least 75mm deep.



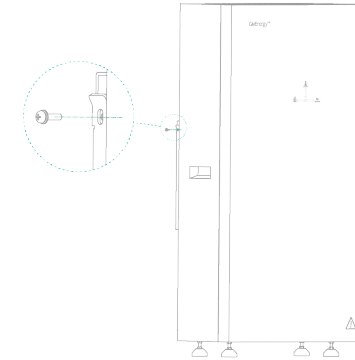
Step 2: Fix the mounting bracket to the wall using the expansion bolts or suitable fixings.

Please note: The brackets are sided.

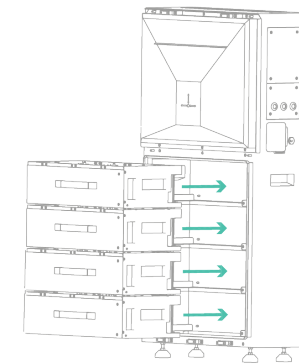


ALL IN ONE STEP-BY-STEP INSTALLATION

Step 3: Mount the All in One onto the mounting bracket. Adjust the height of the supporting feet to ensure the unit is level and attach the securing screws to the brackets, ensuring the weight is on the feet, not the brackets.



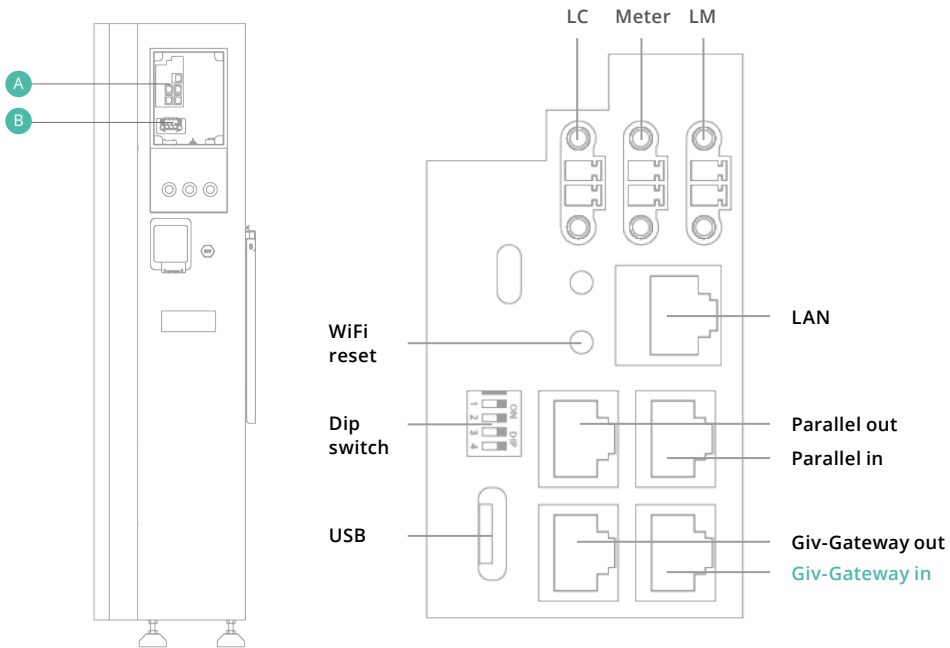
Step 4: Re-insert the battery modules into the shelves of the All in One battery compartment. Secure the battery modules using the fixings provided. Re-attach waterproof cover.



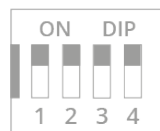
Step 5: Reverse steps 1 & 2 and use the screws / fixings originally removed.

ALL IN ONE CONNECTIONS OVERVIEW

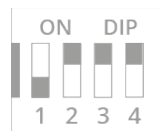
Item	Item Name
A	Communication / network ports
B	AC Supply



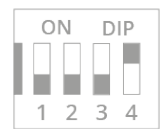
All in One communication / network ports



WiFi



LAN



USB (Dongle) Mode

ALL IN ONE AC UTILITY GRID CONNECTION

If installing using the Giv-Gateway, the RCD is already included. If being installed without the Giv-Gateway, the installer will need to source their own RCD / protection device and ensure that the current rating is suitable for the installation.

Cable size requirements are dependent on the country of installation, cable run length, and mix. current of the product.



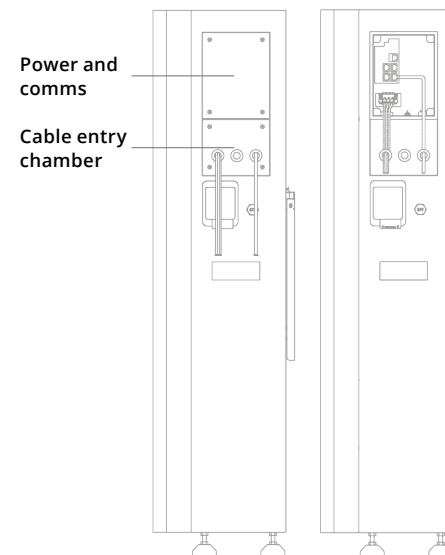
Please note:

Wire isolation needs to be stripped to 12mm

Both side and rear cable entry points are provided. If using rear entry point, please ensure the cable is installed prior to fitting the All in One. The AC supply cable should enter through one of the waterproof glands, and pass through the cable entry chamber (labelled below), and connected into the AC supply plug. Strip the outer insulation to 12mm in length of bare copper and connect them to the plug (instructions are on the side of the plug).

The recommended maximum cable length should not exceed 50m as the resistance of the cable will consume inverter output power and reduce the inverter efficiency.

The main earth connection in the AC connection plug bonds to the chassis and external metallic parts when inserted into the AC connection port.



The AIO/Giv-Gateway is a Class I protective product, so its enclosure is to be grounded to ensure personal safety. This is achieved by connecting the earthing(PE) wire from grid to the PE busbar in Giv-Gateway and then/or in case of no Giv-Gateway, the AIO's PE terminal on its AC terminal block. The PE terminal on AIO and Giv-Gateway has direct and good contact with their respective metal enclosure.

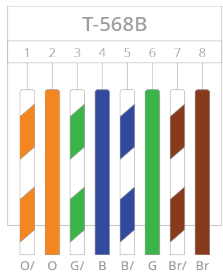
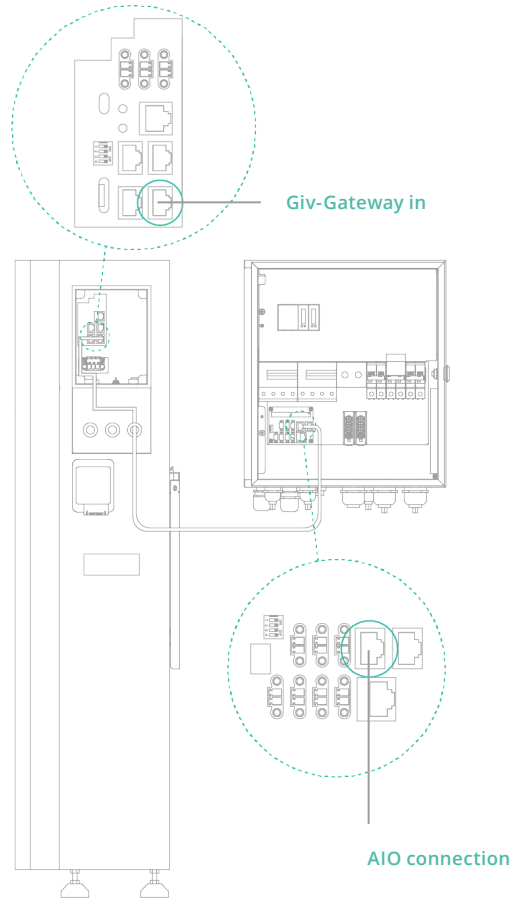
Type A RCD with 30mA tripping setting is already integrated in Giv-Gateway. For standalone version AIO, a Type A RCD with 30mA tripping current is recommended to be used.

ALL IN ONE COMMS CONNECTION WITH GIV-GATEWAY

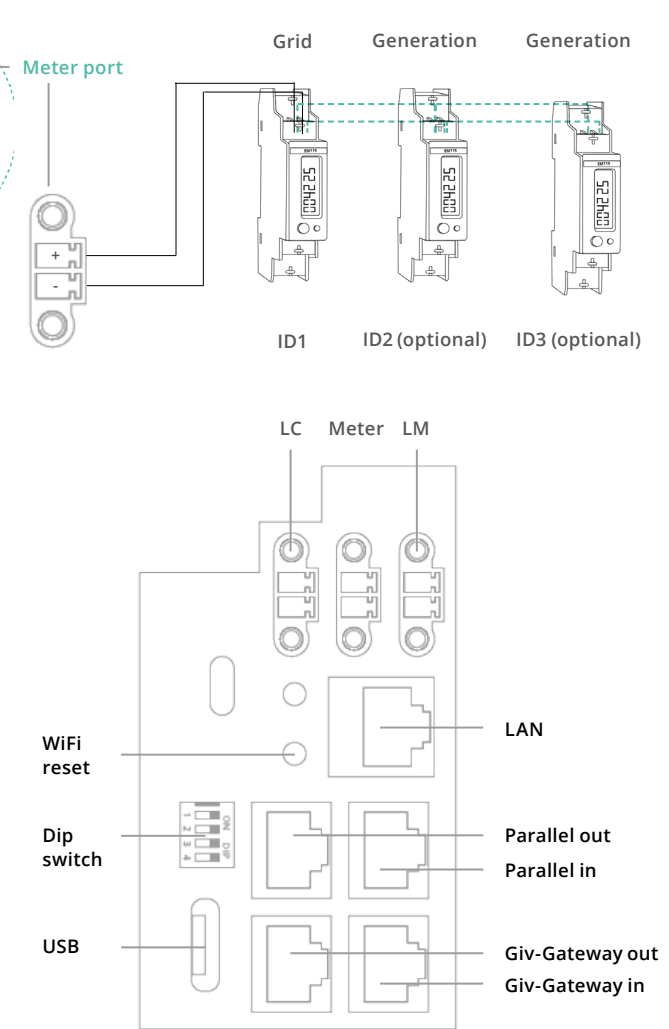
ALL IN ONE COMMS CONNECTION WITHOUT GIV-GATEWAY

Single All in One installation

To install a single All in One, connect the communication wire to the socket D in the wiring compartment of the All in One.

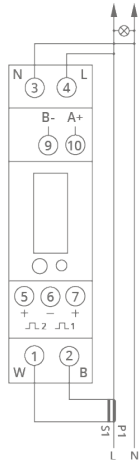


! The communication cable must be terminated with a RJ45 plug at either end to connect the All in One to the Giv-Gateway. Ensure the wiring configuration into the RJ45 is the same both ends, a cross-over cable will not work. A standard Ethernet Cat5/6 cable will suffice here, wired to T-568B standard if doing locally.



! We suggest that a twisted pair shielded cable is to be used for meter communication to lessen the risk of interference from external factors.

GEM120CT OVERVIEW AND INSTRUCTIONS



Technical Specifications

Model Number	GEM-CT-45/100
Dimensions (HxWxD)	119 x 17.5 x 62mm
Working Temperature	-25°C ~ 55°C
Protection Class	IP51
Display	LCD

Metering

Every system will need at least 1 GEM120 (ID1) meter installing to monitor the import and export of the building. Every GEM120 meter needs a power supply/voltage reference point.

This could be a dedicated supply from a 6A, for example.

Every GEM120 meter will need a data connection back to the inverter's meter communication port. Please see the previous page for the connection point.

Data connection should be a twisted pair cable, for example, Belden multi-stranded cable.

If installing multiple meters, both the data and power supply can be linked together in series.

GEM120 meters come with a split core CT that has a 2m cable.

This must not be cut down or extended.

Press and hold the GEM120CT button to change the ID settings.

Please note: the GEM120CT meter is only to be installed for a standalone All in One, the Giv-Gateway already includes a pre-installed GEM120CT.

Giv-Gateway Installation



WHOLE HOME BACKUP

A great companion to the AIO

By purchasing the additional Giv-Gateway, the All in One can provide whole house backup in the event of a grid failure.

The Giv-Gateway provides seamless switching between grid and battery ensuring that your property is always powered. The Giv-Gateway also facilitates a connection point for your solar PV system by allowing it to continue to generate energy even without a grid supply when in a grid outage scenario. Essential backup capacity varies dependent on model.

Specifications

Dimensions
410H x 190D x 370W (mm)

Nominal AC Power
18.4 kW

Rated Grid Frequency
50/60±5Hz

Protection Class
IP65

Environmental category
Outdoor

Pollution degree
Outside PD3; inside PD2

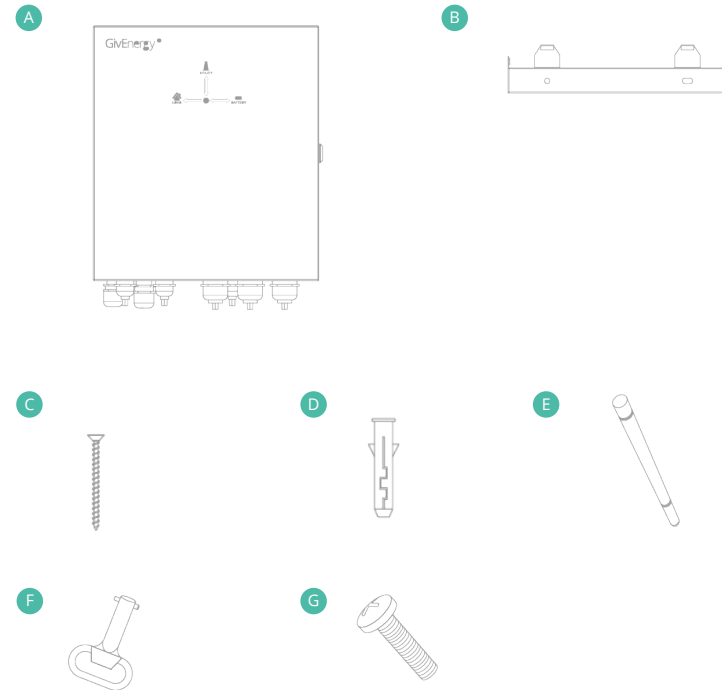
Weight
12.75 Kg

Max. AC Current
100A

Warranty
10 years

Model number
GIV-AIO-GW1

Item	Item Name	Qty
A	Giv-Gateway	1
B	Bracket	1
C	Mounting screw	2
D	Wall plug	2
E	Antenna	1
F	Key	1
G	M6 x 12 Bracket Screw	4



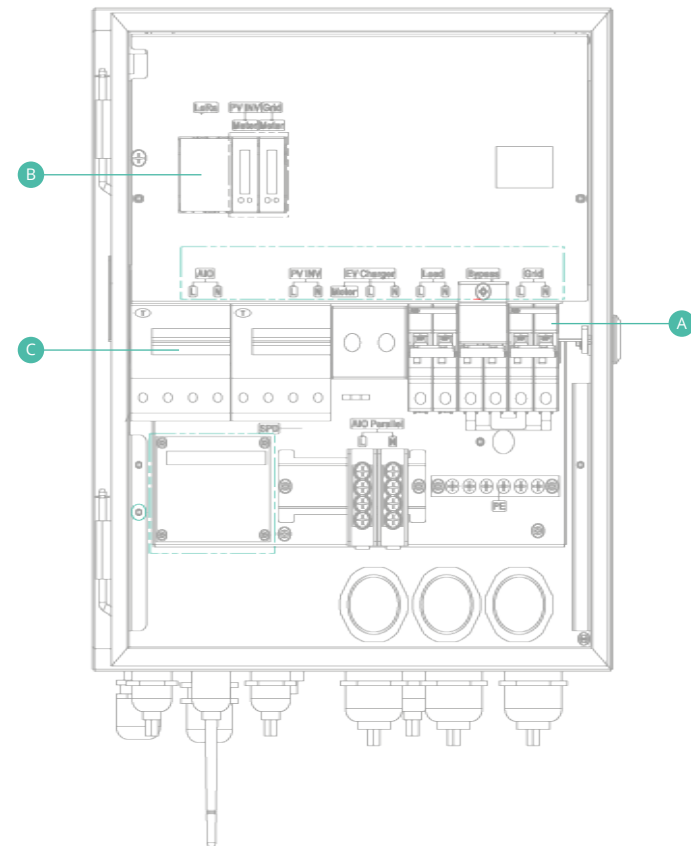
ISOLATING THE MAIN SUPPLY TO THE PROPERTY

Before installing the Giv-Gateway, make sure that the whole house is isolated from the main supply.

Once isolated, please test to ensure that no voltage is present to the property before disconnecting the main supply cable from the main distribution/switch board. The Giv-Gateway should be installed between the customer's supply meter and the switch board.

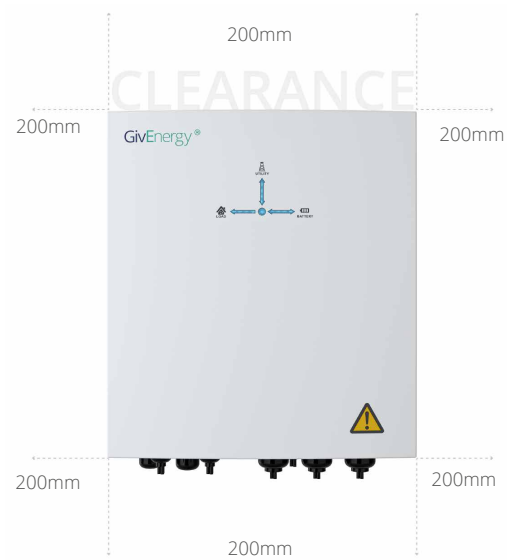
GIV-GATEWAY COMPONENTS

Item	Item Name
A	MCB, RCD
B	Grid / PV Meter and LoRa (spare)
C	CT, RS485, LAN, CAN, DRM



Space Clearance

There must be adequate clearance around the Giv-Gateway. The diagram below illustrates the space required around the system.

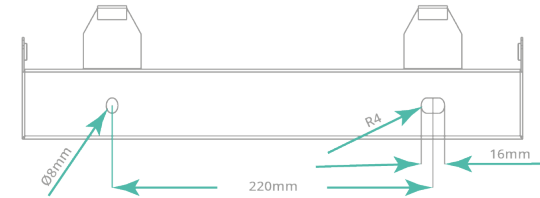


Maintenance

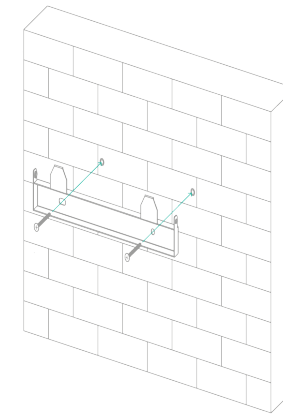
When maintaining and cleaning the Giv-Gateway, please refrain from using cleaning products on its surface.

To ensure your Giv-Gateway operates optimally at all times, annual maintenance checks need to be carried out. Check for visible damage or discolouration of the switches, and that the cables are intact. Please ensure that the top of the Giv-Gateway is not obstructed in any way.

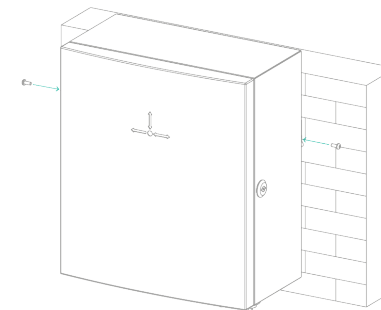
Step 1: Place the wall mounting bracket horizontally onto the wall and mark the position of the bracket holes. Drill 2 holes at the marked positions, at least 75mm deep.



Step 2: Fix the mounting bracket to the wall using the fixings provided, or other suitable fixings.

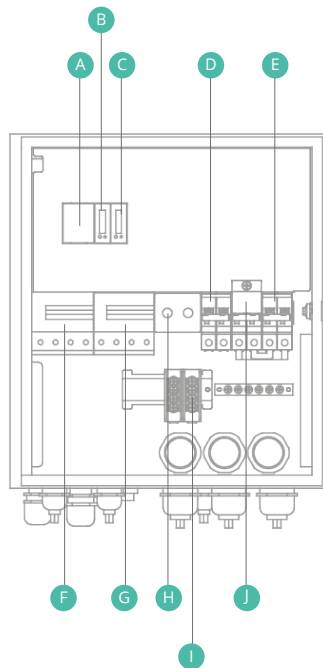


Step 3: Fix the Giv-Gateway to the mounting bracket and secure with the fixings provided. Ensure there is adequate clearance space.



CONNECTIONS OVERVIEW

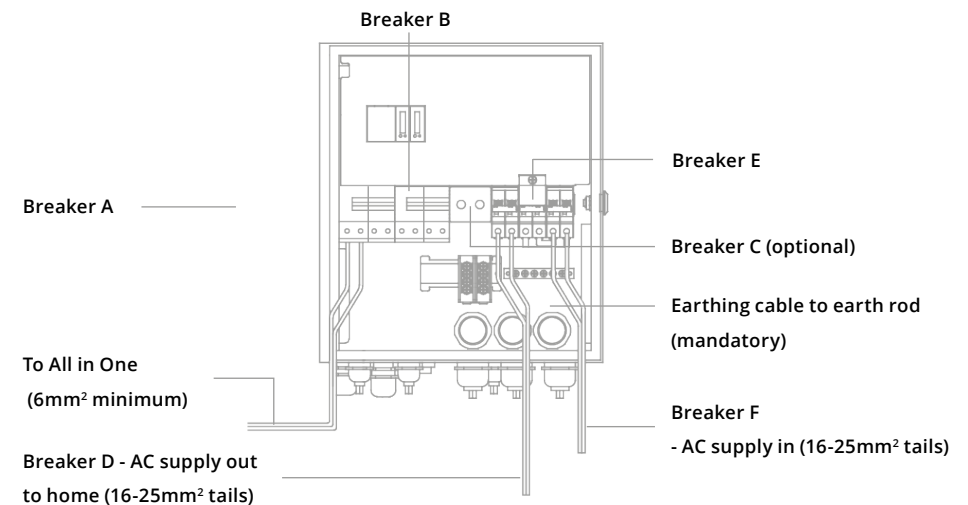
Item	Item Name
A	LoRa connection Module (spare)
B	PV meter (ID2)
C	Grid meter (ID1)
D	Load (house supply)
E	AC supply (in)
F	All in One supply
G	PV inverter supply
H	EV charger (spare)
I	All in One parallel connection (coming soon)*
J	Grid bypass switch

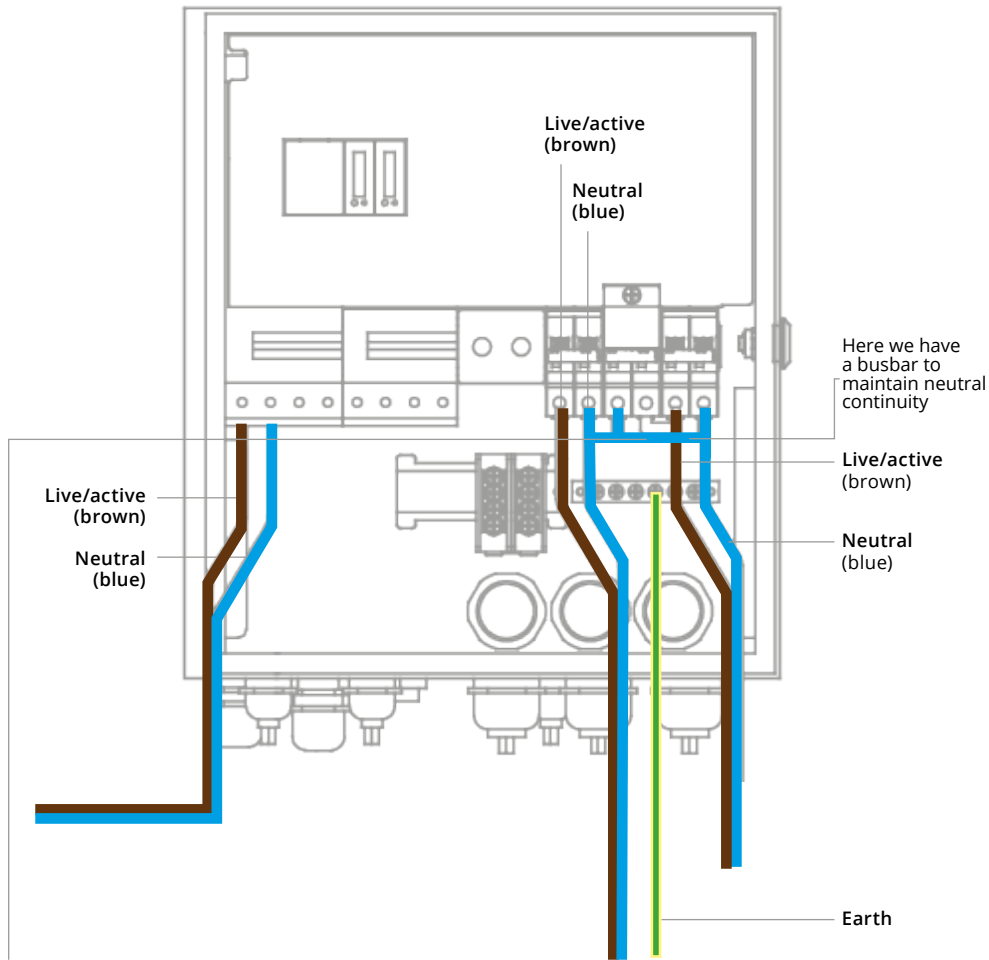


"Product has not yet been tested to Section 5 of AS/NZS 4777.2:2020 for multiple inverter combinations"

GIV-GATEWAY AC UTILITY GRID CONNECTION

- **Breaker A - Single All in One connection**
The power wires for All in One connection should be at least 6mm². Strip the wire insulation for 8mm wiring connection.
- **Breaker B - PV inverter connection**
PV can be fed directly from this breaker. Please ensure that the overcurrent protection is adequate for the installation. If retro fitting the AIO + Gateway to a solar system, you can leave the existing PV feed in situ and just use a monitoring clamp to read the generation.
- **Breaker C - EV charger connection**
The maximum load current is 32A, so the load wires should be at least 6mm². Strip the wire insulation for 8mm wiring connection.
- **Breaker D - Loads connection**
The maximum load current is 80A, so the load wires should be at least 16mm². Strip the wire insulation for 8mm to connect to this load breaker.
- **Breaker E - Bypass MCB**
The bypass switch redirects grid power directly to the house, bypassing the Giv-Gateway.
- **Breaker F - Grid connection**
The maximum load current is 100A, so the load wires should be at least 16mm². Strip the wire insulation for 8mm to connect to this load breaker.





Earthing cable to earth rod (mandatory)

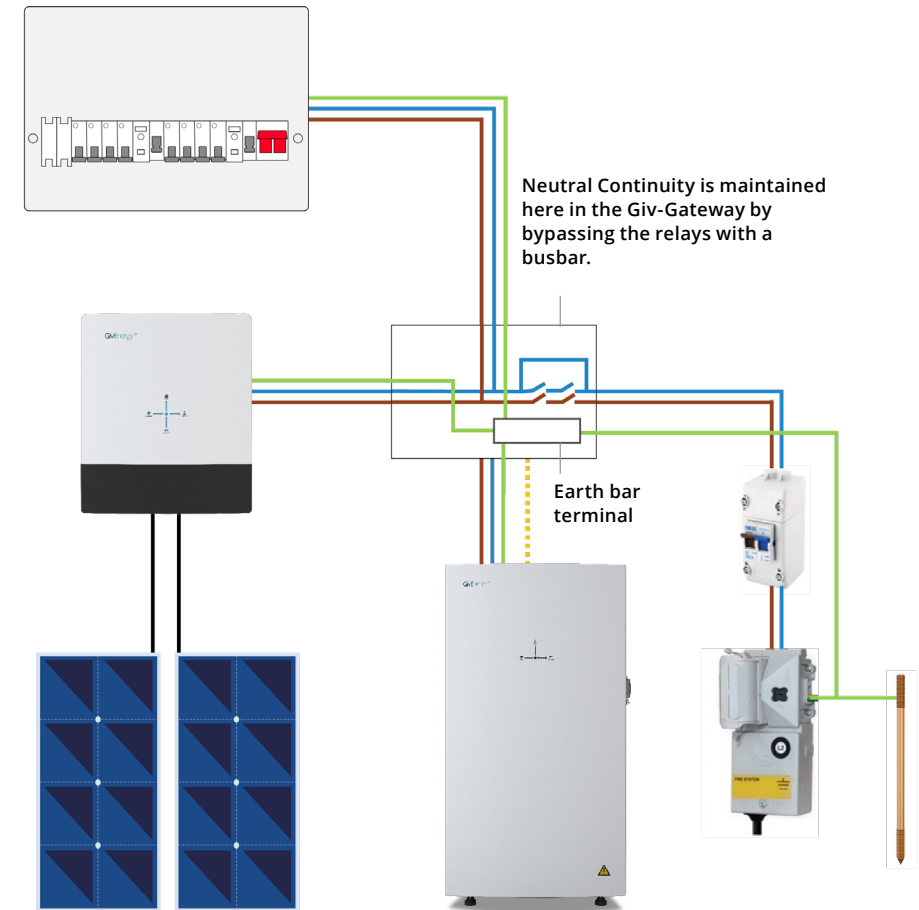
Please note: When using the earth terminal, this also earths the chassis and external metallic parts.

-  Earth (green/yellow)
-  Neutral (blue)
-  Live/Active (brown)

Type A RCD with 30mA tripping setting is already integrated in Giv-Gateway.

For standalone version AIO, a Type A RCD with 30mA tripping current is recommended to be used.

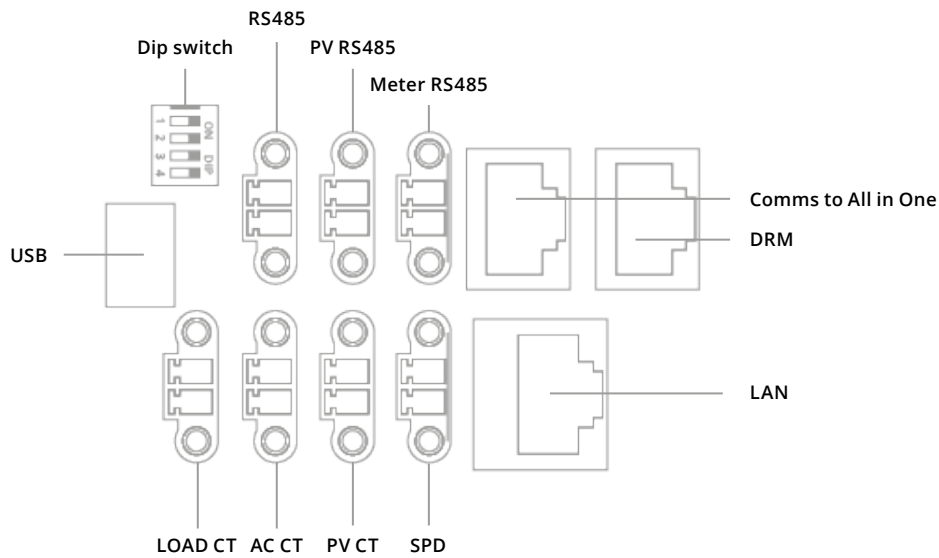
For Giv-Gateways installed in Australia, a busbar is supplied to link the neutrals between the grid supply side and the off-grid side. Please ensure that these are installed prior to energising the system.



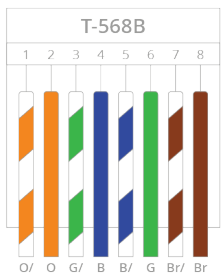
GIV-GATEWAY COMMUNICATION CONNECTIONS



Gateway communication/network ports



The meter tails between the meter position and the Giv-Gateway should not be longer than 3 metres. If the length is more than 3 metres, you should install an additional protective device at the nearest point to the supply inside the customer's premises, as specified in the current IEE Wiring Regulations.



! The communication cable must be terminated with a RJ45 plug at either end to connect the All in One to the Giv-Gateway. Ensure the wiring configuration into the RJ45 is the same both ends, a cross-over cable will not work. A standard Ethernet Cat5/6 cable will suffice here, wired to T-568B standard if doing locally.

CONNECTING ALL IN ONE TO GIV-GATEWAY

AC supply wiring

! Remove bottom connections cover prior to wiring, and then replace once complete.

Communication wiring

Once the equipment is assigned to the user during the commissioning process, the system will then connect to the **GivEnergy Monitoring Portal**. The inverter will report data to the GivEnergy Monitoring Portal, allowing information about the system to be displayed on the portal.

Please allow up to 24 hours for the data to be read in accurately.

Once the data is confirmed to be reading in correctly, the customer will be able to log in to their account via their device to manage and view their system.

For a more in-depth guide about our Monitoring Portal, please view our portal and app guide that is provided on our **Resource Hub** at www.givenergy.co.uk.

Please note: the GivEnergy app is supported by an active development team constantly working on updates and improvements. As such, app information is subject to change.

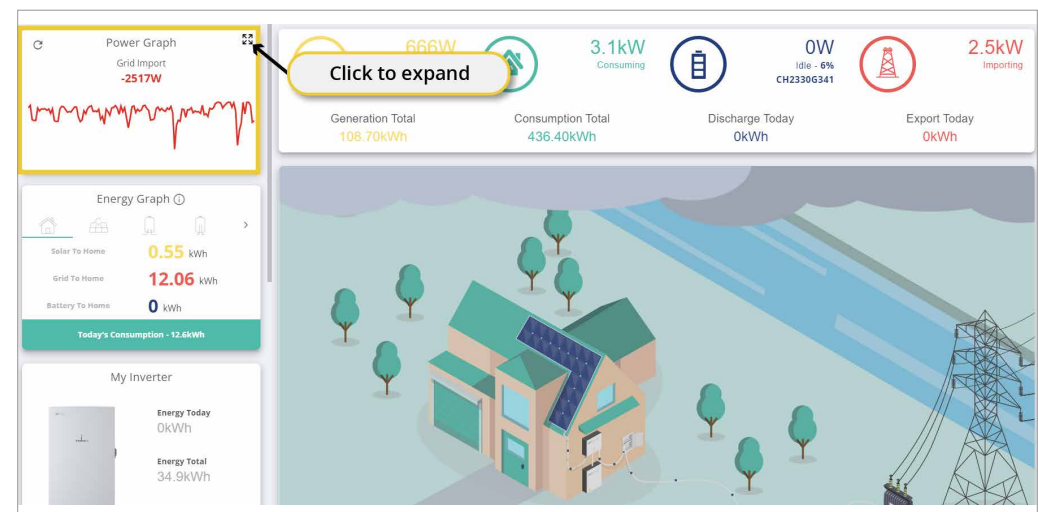
Accessing monitoring data on the Portal

Step 1: Log into the GivEnergy Monitoring Portal at www.givenergy.cloud.

Step 2: After logging in, you'll be taken to the Monitoring Portal Dashboard. From here, you can view information about your systems import/export data, solar forecasts, tariff savings, and much more.

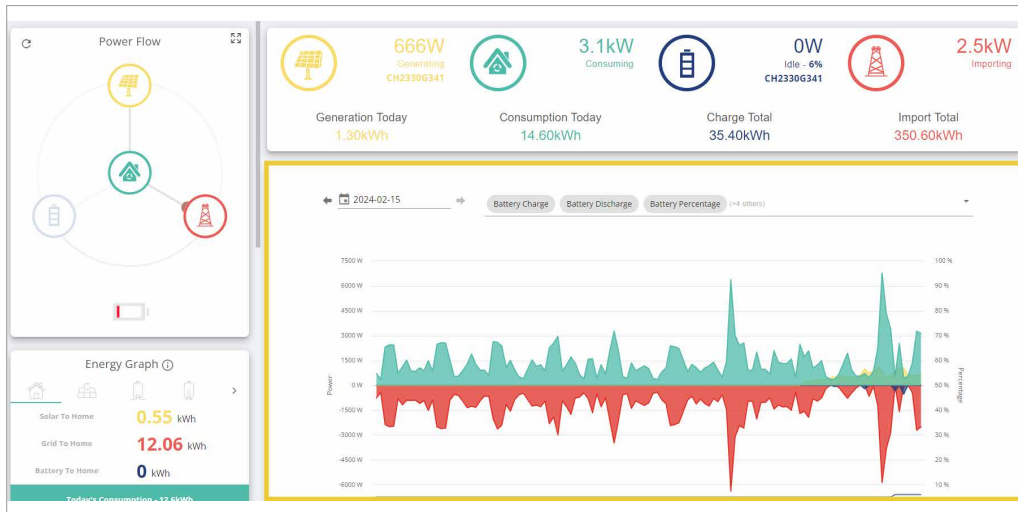
To view in-depth information about your consumption, you can expand the graph in the top left corner of the **Power Graph** window.

All in One & Giv-Gateway Configuration

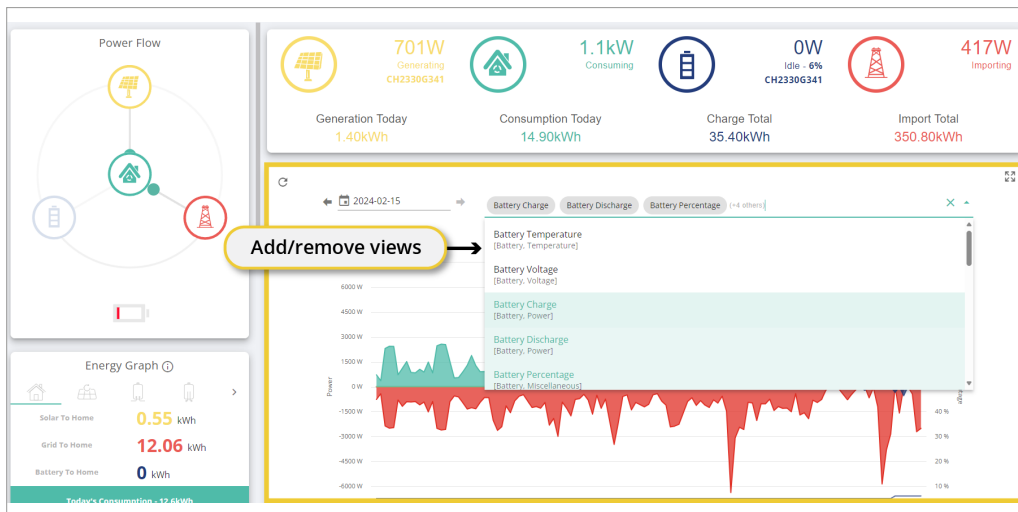


SETTING UP MONITORING

Step 3: In the expanded view, you'll be able to view a detailed graph about your battery charge and discharge, battery percentage, as well as many other views.



Step 4: To add/remove views, simply click the dropdown arrow and select from the dropdown list.



SETTING UP MONITORING

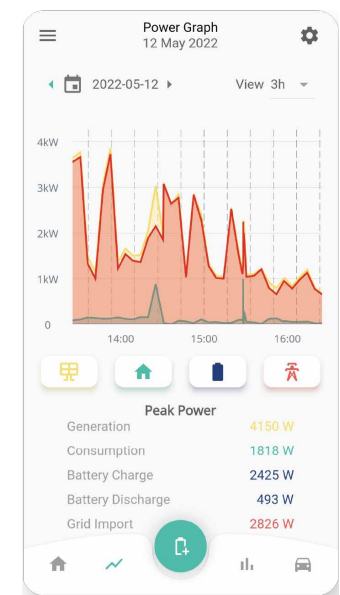
Accessing data on the App

Step 1: Download the **GivEnergy App** from the **Google Play / App Store** on your device.

Step 2: Log in using your credentials.

Step 3: After logging in, you'll be shown the **App Dashboard**. This is a simplified version of the **GivEnergy Monitoring Portal**.

Step 4: The navigation menu displayed at the bottom of the screen allows you to cycle through your **Power** and **Energy Graph**.



If data is not being displayed correctly on the GivEnergy Monitoring Portal or App, please contact the GivEnergy Service Desk on **1300 GIVENERGY (1300 448 363)** or email info.aus@givenergy.com.

ENABLING DRM CONTROL

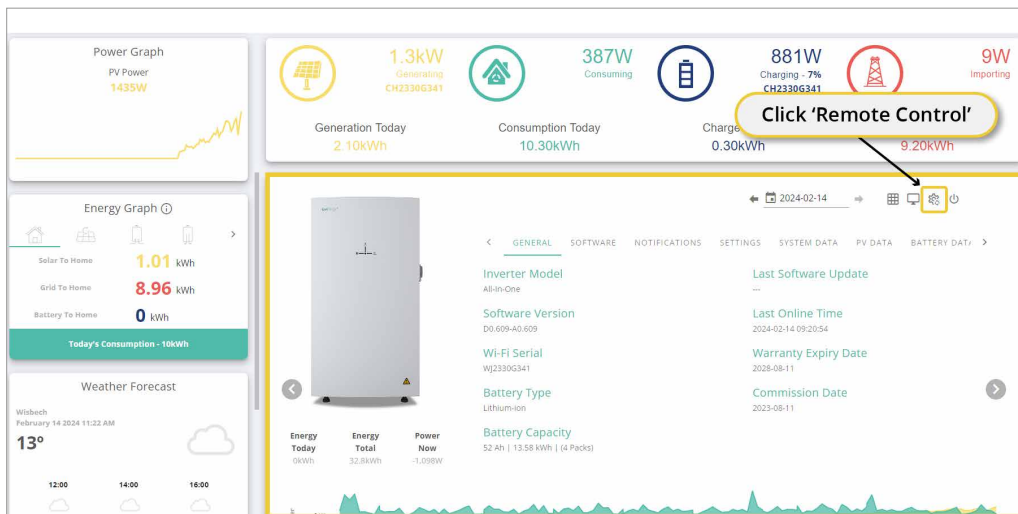
To enable DRM control:

Step 1: Log into the GivEnergy Monitoring Portal at www.givenergy.cloud.

Step 2: On your portal dashboard, hover over the 'My Inverter' card and select the expand icon.

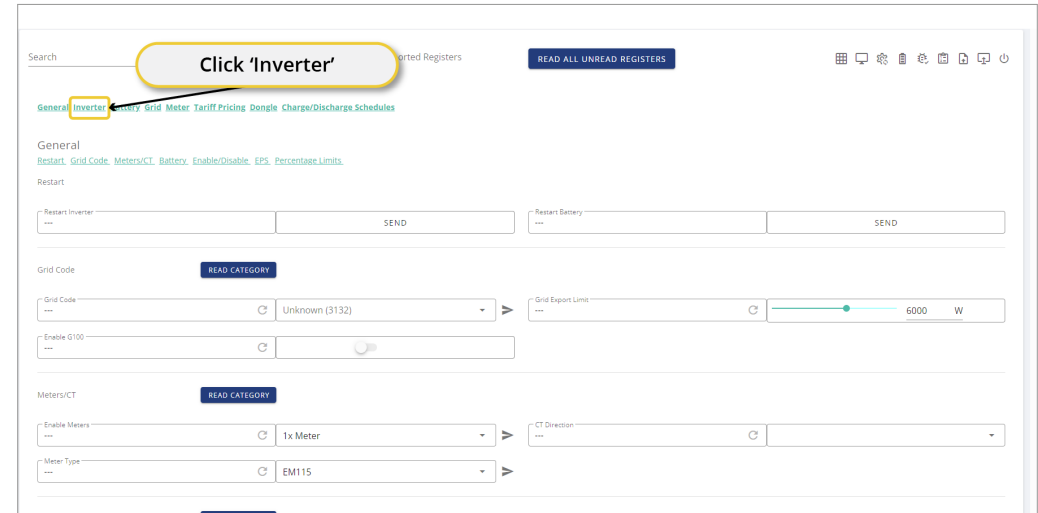


Step 3: In the 'My Inverter' screen, click the 'Remote Control' button found in the top right corner of the window.

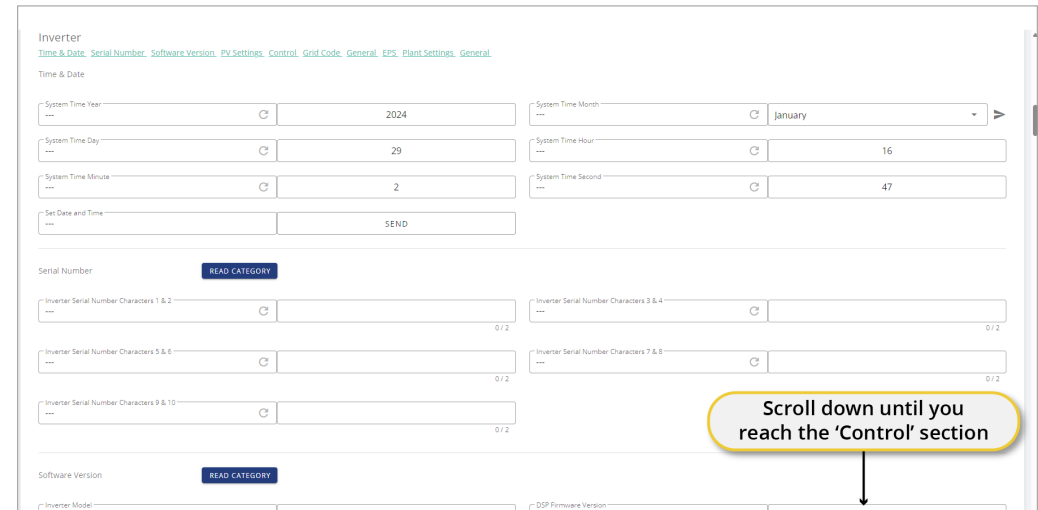


ENABLING DRM CONTROL

Step 4: Click 'Inverter' at the top of the Remote Control page.



Step 5: Scroll down the page until you see the 'Control' section.



ENABLING DRM CONTROL

Step 6: Click 'Read Category' to input the values into the 'Inverter DRM' field in the Control section.

Select 'Read Category' to input values in the 'Inverter DRM' field

Step 7: Once the values are entered, click the toggle button to enable the DRM control.

Click to toggle to 'enable'

ADJUST POWER QUALITY RESPONSE MODE SETPOINTS

Power quality response mode includes:

- Volt-var response mode
- Volt-watt response mode
- Fixed power factor mode
- Reactive power mode
- Power rate limit mode

The AIO supports all of these modes.

The default setpoints of **Australia region A** are applied in the inverter.

Setting the Region setpoints

Step 1: Log into the GivEnergy Monitoring Portal at www.givenergy.cloud.

Step 2: From the **Monitoring Portal dashboard**, hover over the left side of the window to expand the navigation bar. Under the **Systems** category, select '**Commissions**'.

Select 'Commissions'

ADJUST POWER QUALITY RESPONSE MODE SETPOINTS

Step 3: On the **Commissioning Page**, select **'Create Commission'** at the top of the window.

The screenshot shows the 'Commission' page with a table of commissioning records. The 'CREATE COMMISSION' button is highlighted in the top left corner. A yellow callout box with an arrow points to the button, containing the text 'Select 'Create Commission''.

User	Inverter	Progress	Started At	Last Updated At	Deleted At	Actions
App			2024-02-15 09:14:25	2024-02-15 09:14:26	---	
Portal			2024-02-15 08:56:56	2024-02-15 08:57:07	---	
App			2024-02-15 08:41:39	2024-02-15 08:45:17	---	
Portal			2024-02-15 08:30:46	2024-02-15 08:53:41	---	
App			2024-02-14 17:48:39	2024-02-14 18:07:28	---	
Portal			2024-02-14 17:24:53	2024-02-14 17:28:35	---	
App			2024-02-14 17:24:00	2024-02-14 17:48:47	---	
Portal			2024-02-14 16:58:48	2024-02-14 17:01:41	---	
App			2024-02-14 16:55:18	2024-02-14 17:04:02	---	
Portal			2024-02-14 16:41:16	2024-02-14 16:51:16	---	
App			2024-02-14 16:29:17	2024-02-14 16:31:42	---	
Portal			2024-02-14 16:26:06	2024-02-14 17:37:52	---	
App			2024-02-14 16:21:22	2024-02-14 17:13:33	---	
App			2024-02-14 16:18:45	2024-02-14 16:19:17	---	
Portal			2024-02-14 16:05:03	2024-02-14 16:07:53	---	

Step 4: You will now start the **Commissioning** process. Follow the instructions from Step 1 - 4. The region can be set in **Step 4** under **'Configure System'**.

The screenshot shows the 'Configure System' step of the commissioning process. A dropdown menu for 'Grid Code' is open, displaying a list of region options. A yellow callout box with an arrow points to the dropdown, containing the text 'Select region from the dropdown'.

ADJUST POWER QUALITY RESPONSE MODE SETPOINTS

Step 5: Select the region from the dropdown list under **'Grid Code'**.

The screenshot shows the 'Configure System' step of the commissioning process. A dropdown menu for 'Grid Code' is open, displaying a list of region options. A yellow callout box with an arrow points to the dropdown, containing the text 'Select region from the dropdown'.

Step 6: Click **'Configure Inverter'** to confirm the region settings.

The screenshot shows the 'Configure System' step of the commissioning process. The 'CONFIGURE INVERTER' button is highlighted with a yellow box and an arrow. A yellow callout box with an arrow points to the button, containing the text 'Click 'Configure Inverter''.

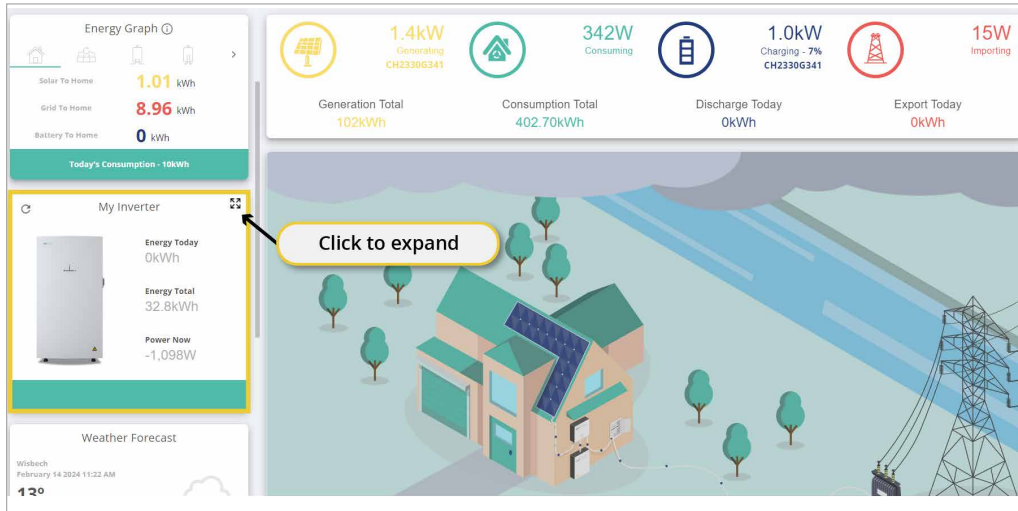
If the local grid operator requires other settings instead of the default Australia A, Australia B, Australia C or New Zealand settings, please contact GivEnergy on 1300 GIVENERGY (1300 448 363) or email info.aus@givenergy.com to change them remotely from GivEnergy's cloud server.

VIEW INVERTER FIRMWARE AND SETTINGS

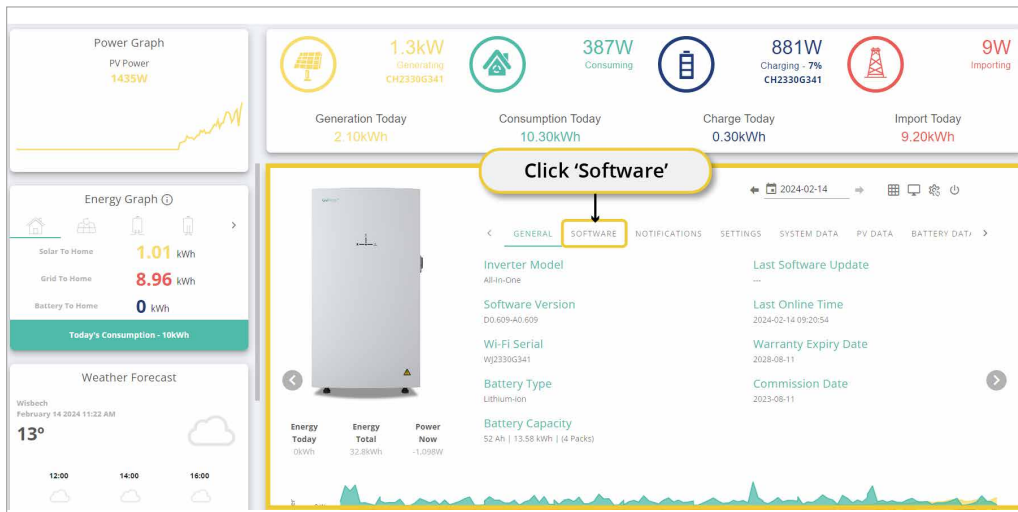
To view your inverter firmware:

Step 1: Log into the GivEnergy Monitoring Portal at www.givenergy.cloud.

Step 2: On your portal dashboard, hover over the 'My Inverter' card and select the expand icon.

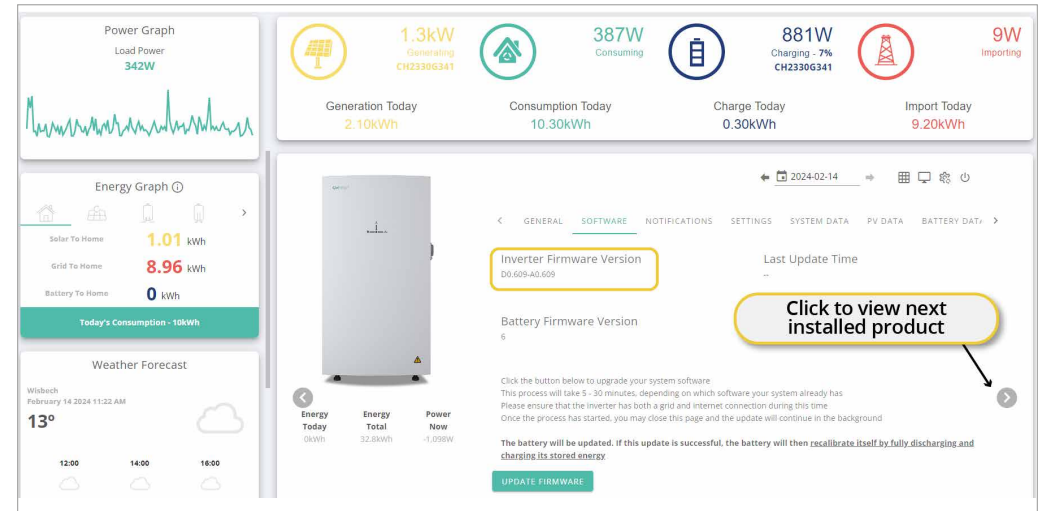


Step 3: Click 'Software' on the All in One card. You can cycle through your installed products using the arrows on either side of the window.

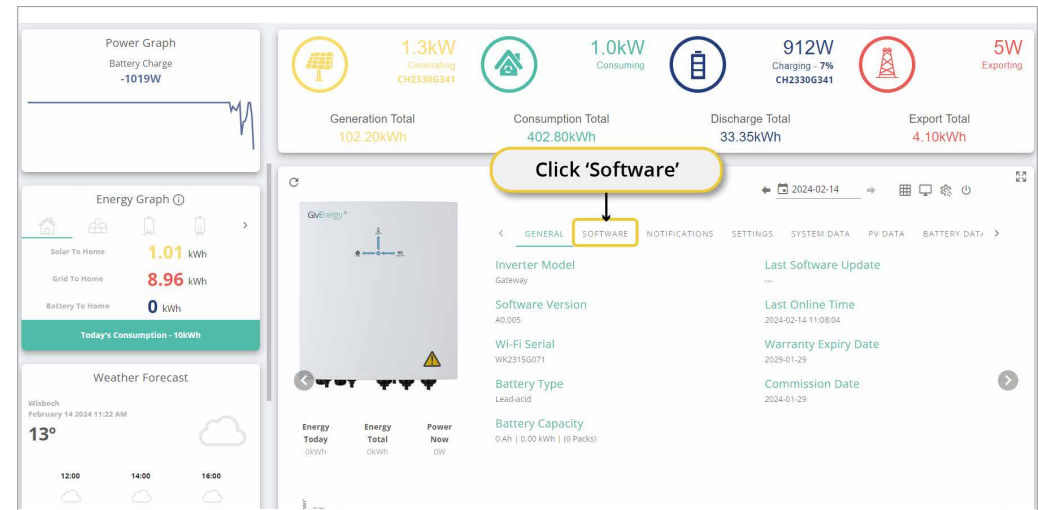


VIEW INVERTER FIRMWARE AND SETTINGS

Step 4: Your Inverter firmware version is displayed on this page. You can also update your firmware (if required) by pressing the 'Update Firmware' button. Click the arrow to cycle to your Giv-Gateway.

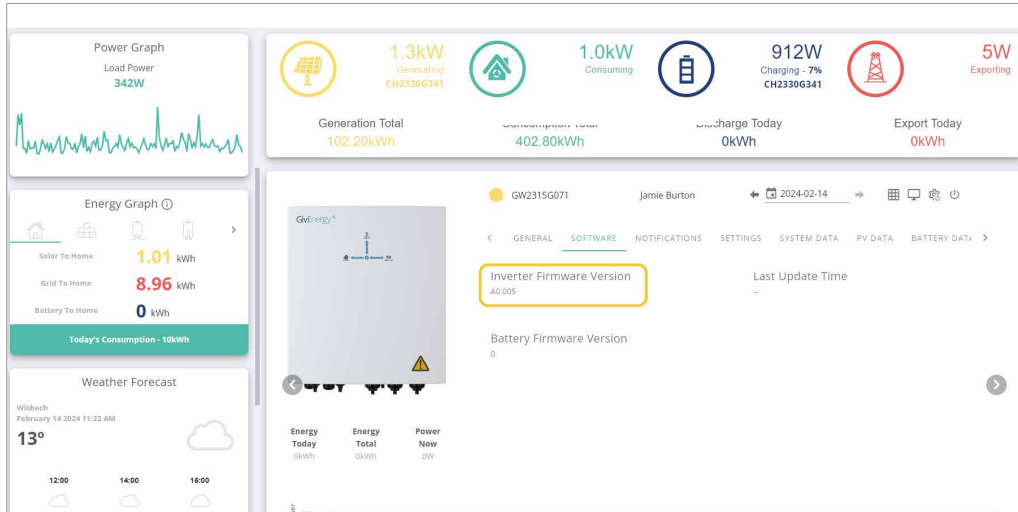


Step 5: Click 'Software' on the Giv-Gateway card.



VIEW INVERTER FIRMWARE AND SETTINGS

Step 6: Your Giv-Gateway firmware version is displayed on this page.



Step 7: Scroll down the page until you see the 'Control' section.

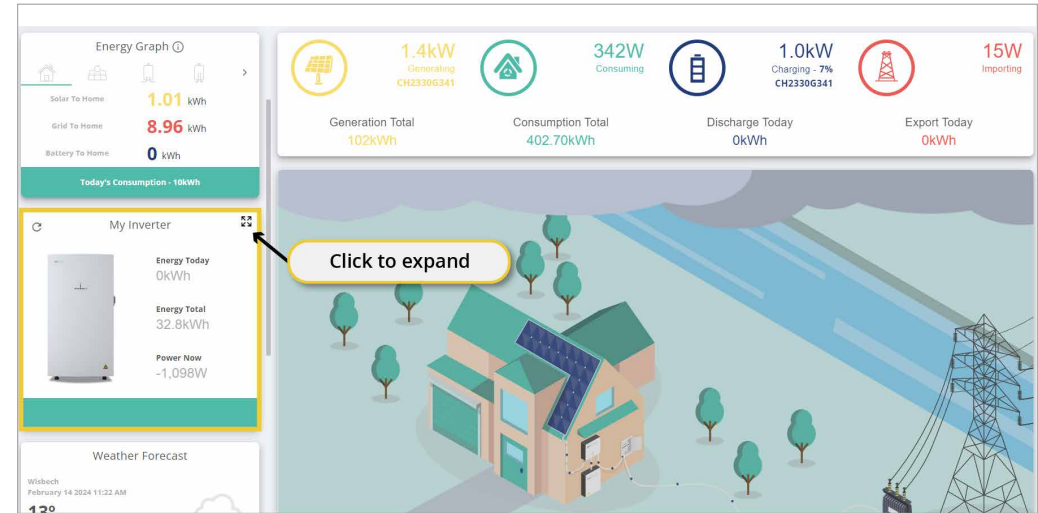
The screenshot shows the 'Control' section of the GivEnergy Monitoring Portal. It contains several input fields for system time and date, and a 'SEND' button. Below these, there are several 'Inverter Serial Number' input fields, each with a 'READ CATEGORY' button. At the bottom, there is a 'Software Version' input field and a 'READ CATEGORY' button. A yellow callout box with the text 'Scroll down until you reach the 'Control' section' points to the bottom of the page.

GENERATION CONTROL & EXPORT CONTROL SETTINGS

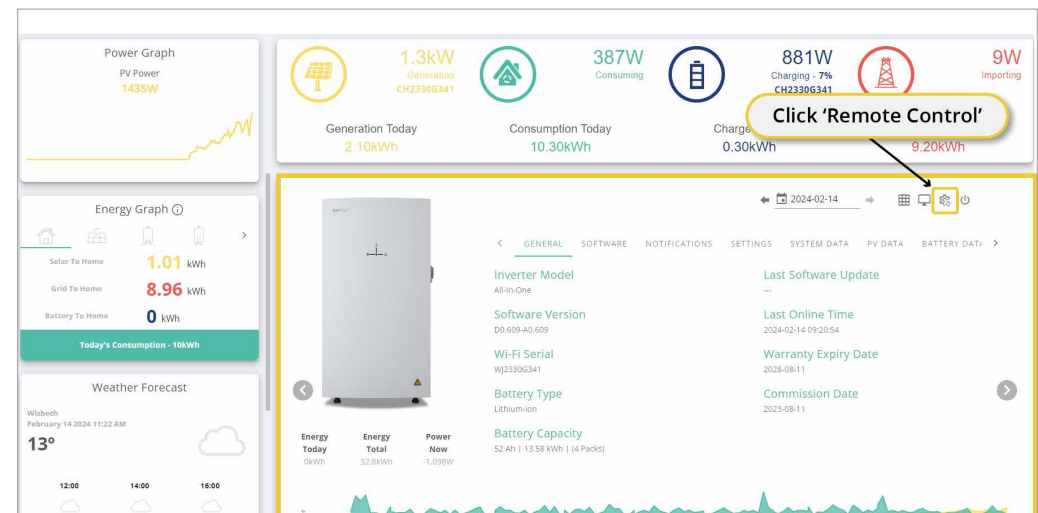
To adjust generation and export control settings:

Step 1: Log into the GivEnergy Monitoring Portal at www.givenergy.cloud.

Step 2: On your portal dashboard, hover over the 'My Inverter' card and select the expand icon.

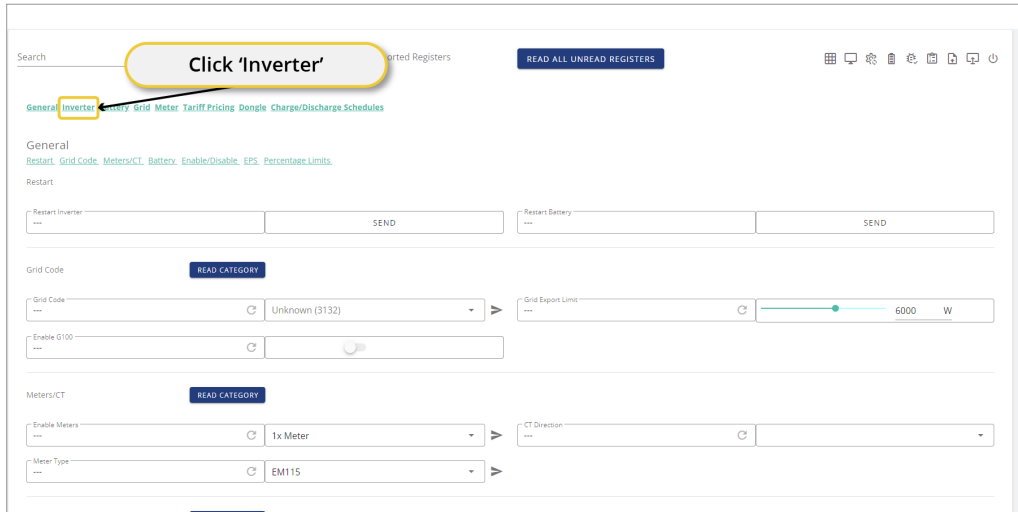


Step 3: In the 'My Inverter' screen, click the 'Remote Control' button found in the top right corner of the window.

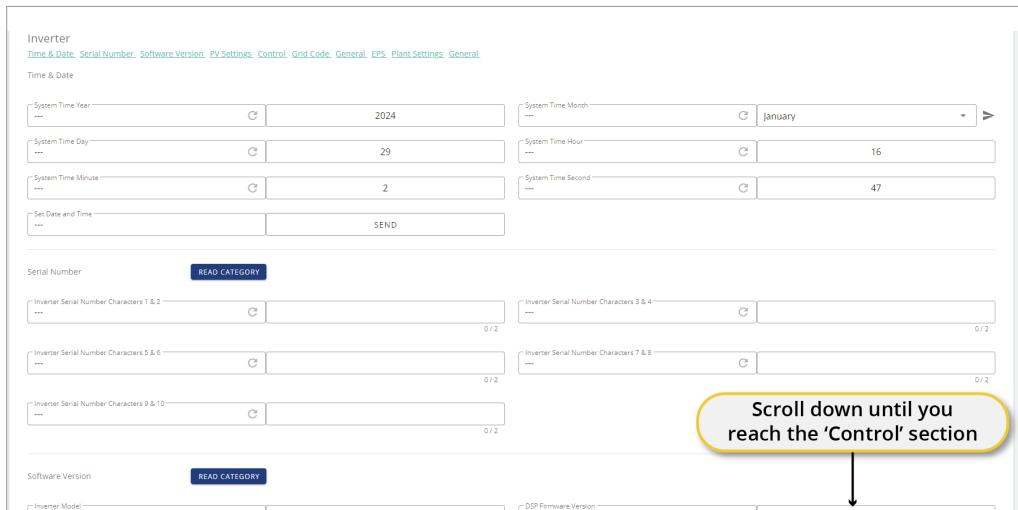


GENERATION CONTROL & EXPORT CONTROL SETTINGS

Step 4: Click 'Inverter' at the top of the Remote Control page.

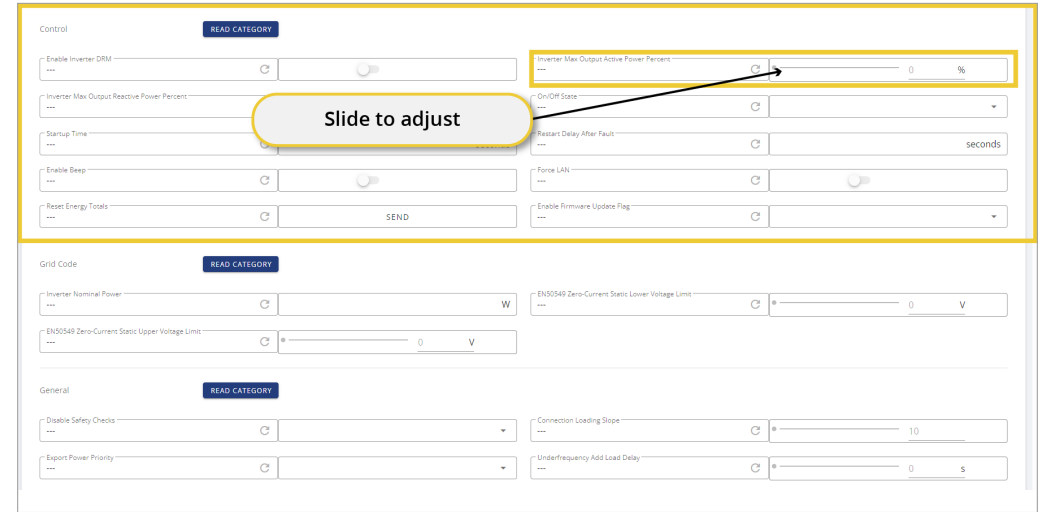


Step 5: Scroll down the page until you see the 'Control' section.

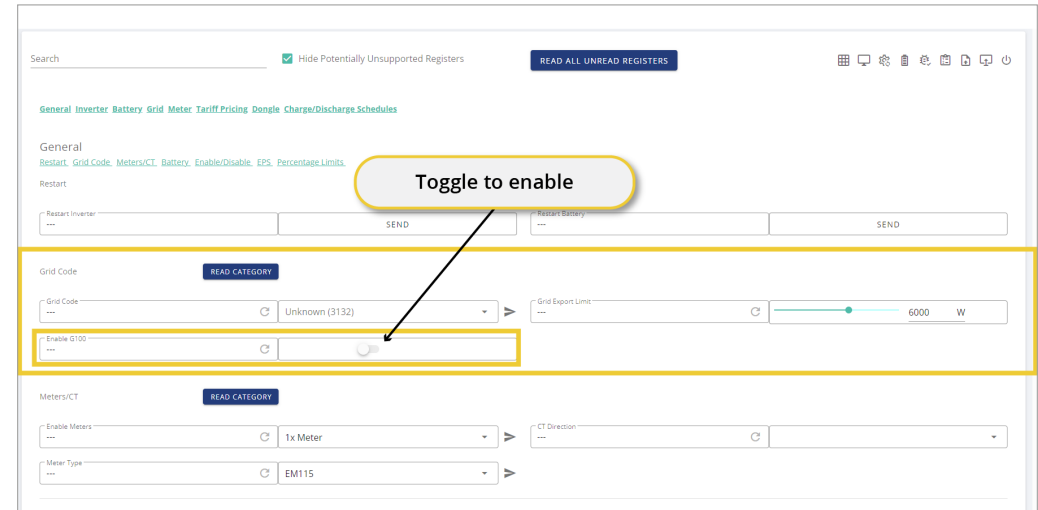


GENERATION CONTROL & EXPORT CONTROL SETTINGS

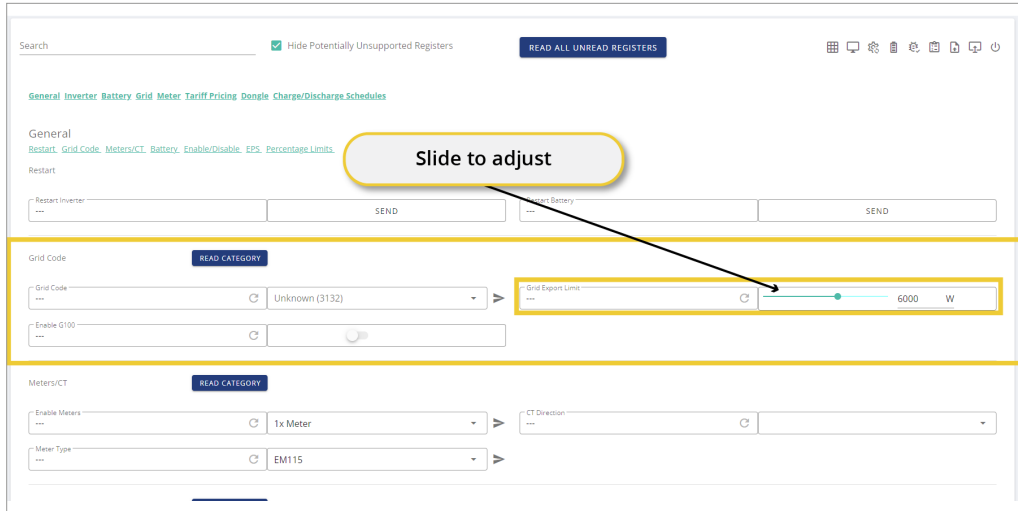
Step 6: To adjust Generation Control, adjust the slider in the 'Inverter Max Output Active Power Percent' field between 0 and 100%. This is a combined hard and soft limit.



Step 7: To adjust the Export Control, scroll back to the top of the page and under 'Grid Code' in the 'General' section, toggle to enable G100 in the 'Enable G100' field.



Step 8: Adjust the **Export Limit** by sliding the value in the 'Grid Export Limit' field. This is a combined hard and soft limit.



WE / WF / WO / WG / WH / WJ / WK serial number

Step 1: Accessing your WiFi settings

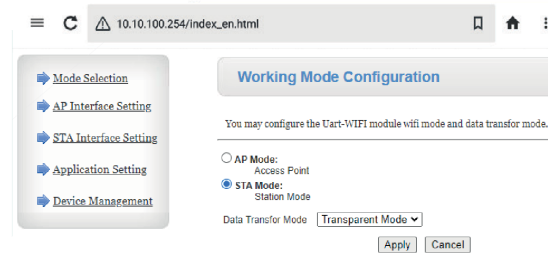


Accessing your WiFi settings.

Select the WiFi network that matches the dongle serial number.

Click Connect when it is visible (ensure **Connect automatically** is ticked)

Step 2: Logging in to your local inverter WiFi settings



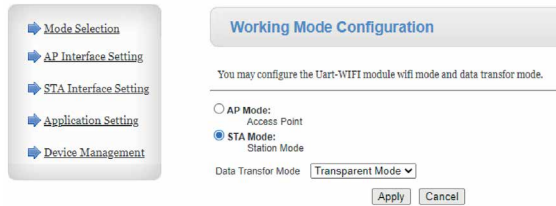
Open your **web browser** (preferably Google Chrome). Type **10.10.100.254** into the address bar.

When prompted enter:

Username: admin

Password: admin*

Step 3: Select Mode

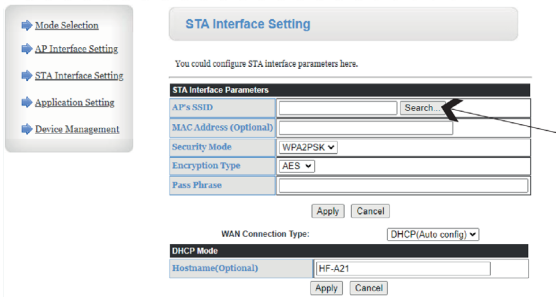


Select Mode Selection.

Select STA mode.

Click Apply.

Step 4: Connecting to your WiFi



Select STA Interface Setting.

Click the Search button.

Step 5: Selecting your WiFi network

SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type
<input checked="" type="radio"/> GivEnergy Lab	74:da:88:95:c7:de	37%	6	AES	WPA2PSK	Infrastructure
<input type="radio"/> DISPLAY_TABLETS	06:ec:da:3b:77:5d	26%	6	AES	WPA2PSK	Infrastructure
<input type="radio"/> WF2125G793	34:ea:e7:7f:e6:5c	89%	11	NONE	OPEN	Infrastructure
<input type="radio"/> HideSSID	76:ac:b9:97:33:e6	83%	11	AES	WPA2PSK	Infrastructure
<input type="radio"/> WE1812G001	f0:fe:6b:73:4b:98	20%	11	AES	WPA2PSK	Infrastructure
<input type="radio"/> WZ2108G038	98:d8:63:9b:29:b9	78%	11	NONE	OPEN	Infrastructure
<input type="radio"/> WF2026G304	98:d8:63:97:37:fc	100%	11	NONE	OPEN	Infrastructure

Apply Refresh

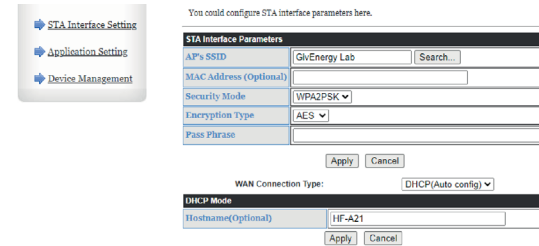
Select your WiFi network from the list.

Click Apply. Click Refresh if your network doesn't appear (see troubleshooting for more support).

RSSI (signal strength) should be at least 60% for a reliable signal.

A WiFi booster/extender may be required if signal strength is <60% (see diagram).

Step 6: Inputting your WiFi password

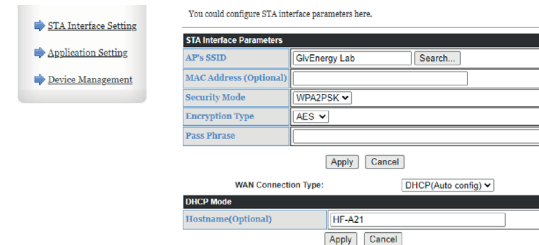


Note: If the desired network does not appear, you can manually enter it here.

Enter the customer's WiFi password.

Click Apply.

Step 7: Setting your security modes



Select AP Interface Setting.

Select WPA2-PSK from the drop down menu in Security Mode.

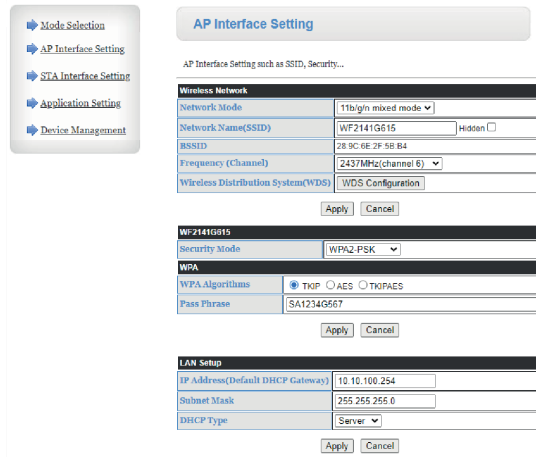
Click Apply.

To hide the WiFi network name of the dongle when it is broadcasting you can tick the hide SSD box.

If you are having interference on a WiFi channel, or if it is causing issues with your home WiFi you can try changing the WiFi channel here.

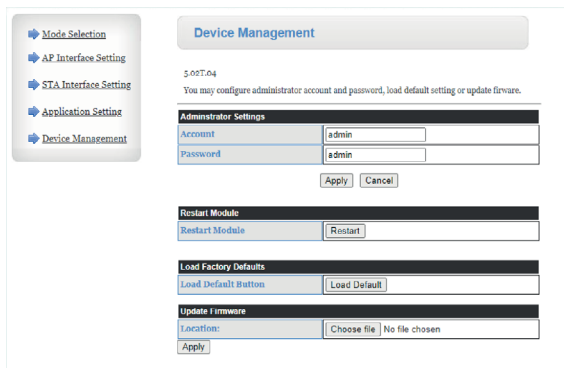
If you wish to change the IP address of the dongle you can modify this here.

Step 8: Selecting your dongle password



Choose a **password** (inverter serial no. is recommended).
Click **Apply**.

Step 9: Restart dongle



Select **Device Management**.
Select **Restart**.

The screen will display Rebooting, this will stay on your screen indefinitely but the process only takes at maximum 10 minutes. If after 10 minutes your system is still not connected refresh your page and then please try the steps again, or refer to our **Troubleshooting** steps in our full guide at: www.givenergy.co.uk/resource-hub/

Commissioning Overview

All systems must be commissioned to ensure correct battery and meter communications, as well as connection to the online portal.

Note: Without commissioning, the system may not operate correctly.

Check that all the wires are securely connected before the battery breaker and the AC isolator is switched on. You **MUST** set the parameters of the battery according to your battery system.

When commissioning the system, please use the **GivEnergy app** available from the **Google Play/App Store** and refer to our **GivEnergy Portal and App guide** found on our **Resource Hub** at www.givenergy.co.uk.

When you start a commission, you will be prompted to input the grid code from a drop down list. For compliance with AS/NZS 4777.2:2020, please select from Australia A, B, C or New Zealand. Please confirm with your local grid operator on which Region to select.

Accessing the Commissioning Portal/GivEnergy app

Either sign into the online portal at <https://portal.givenergy.cloud>, or the GivEnergy app with your GivEnergy Engineer login. If you are a first time user, and you do not have an account or Engineer login, please consult your supplier to get this set up.

➤ To download a fully illustrated guide, please visit our Resource Hub at www.givenergy.co.uk

Setting up the internet connection

Sign into the **GivEnergy app** and follow the in-app instructions.

End user account creation

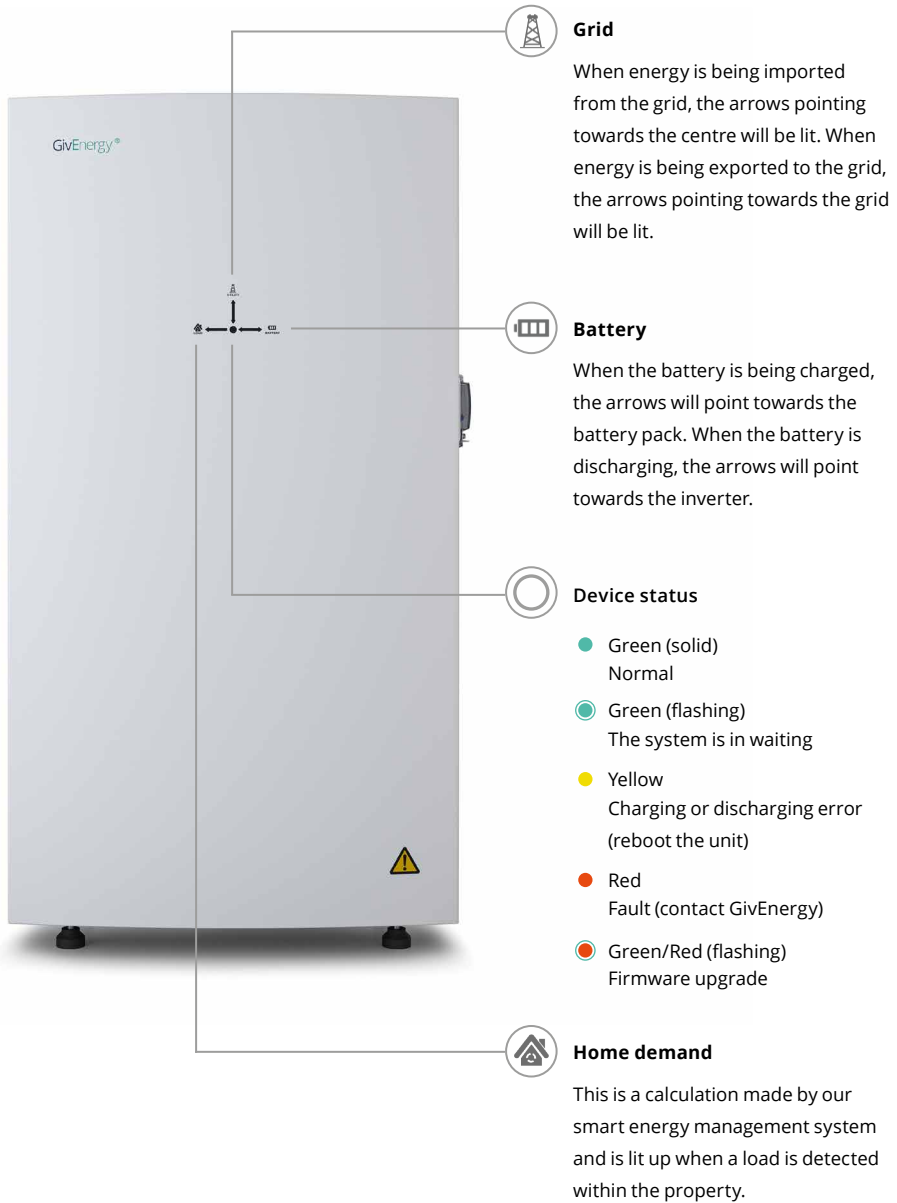
To set up GivEnergy account the end user will provide their email address to the installer/installation company. Upon successful commission of the equipment the end user will be emailed with a prompt to set up their account and gain access to the portal. Upon signing in to the portal for the first time they will go through a walk-through explaining how to navigate the portal and mobile app.

Decommissioning the system

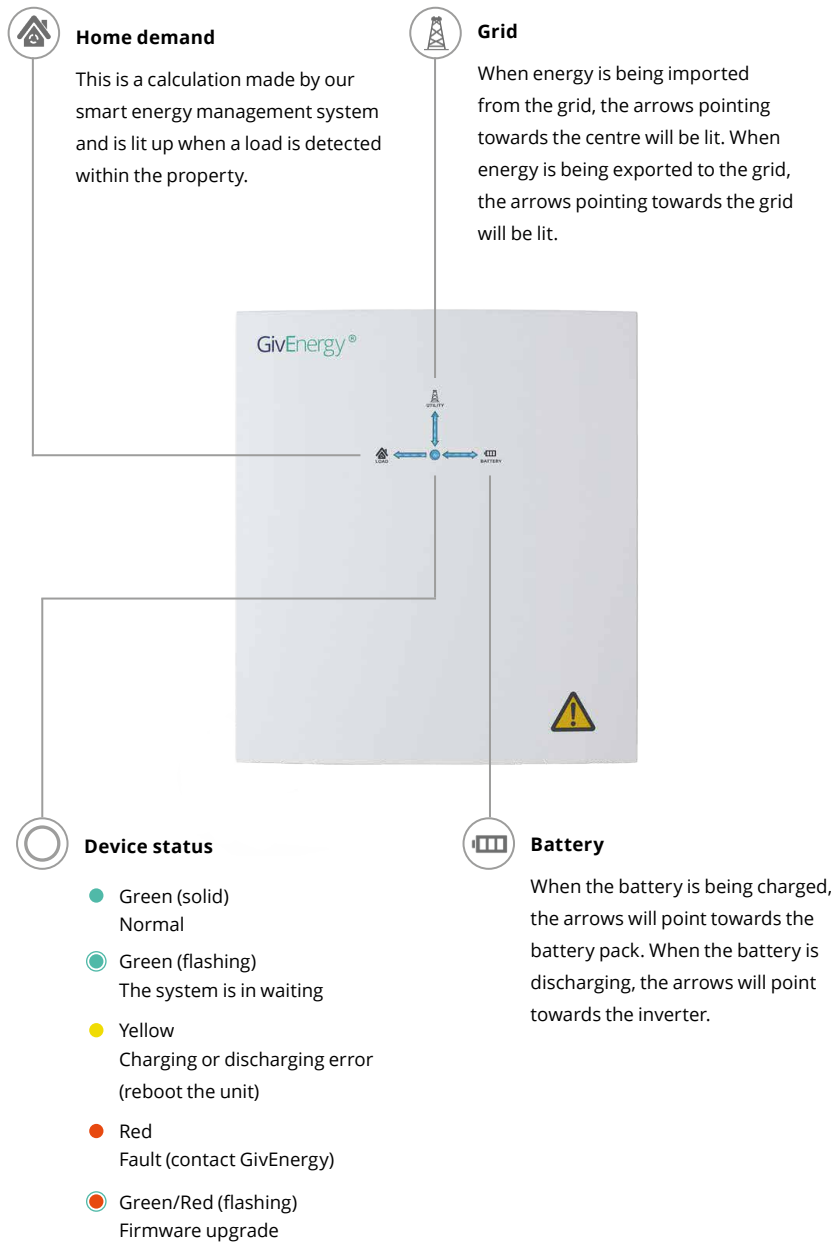
To decommission the system please contact GivEnergy either by phone on **1300 GIVENERGY (1300 448 363)** or email at info.aus@givenergy.com.

For compliance with AS/NZS 4777.2:2020, please section from Australia A, B, C or New Zealand. Please confirm with your local grid operator on which Region to select.

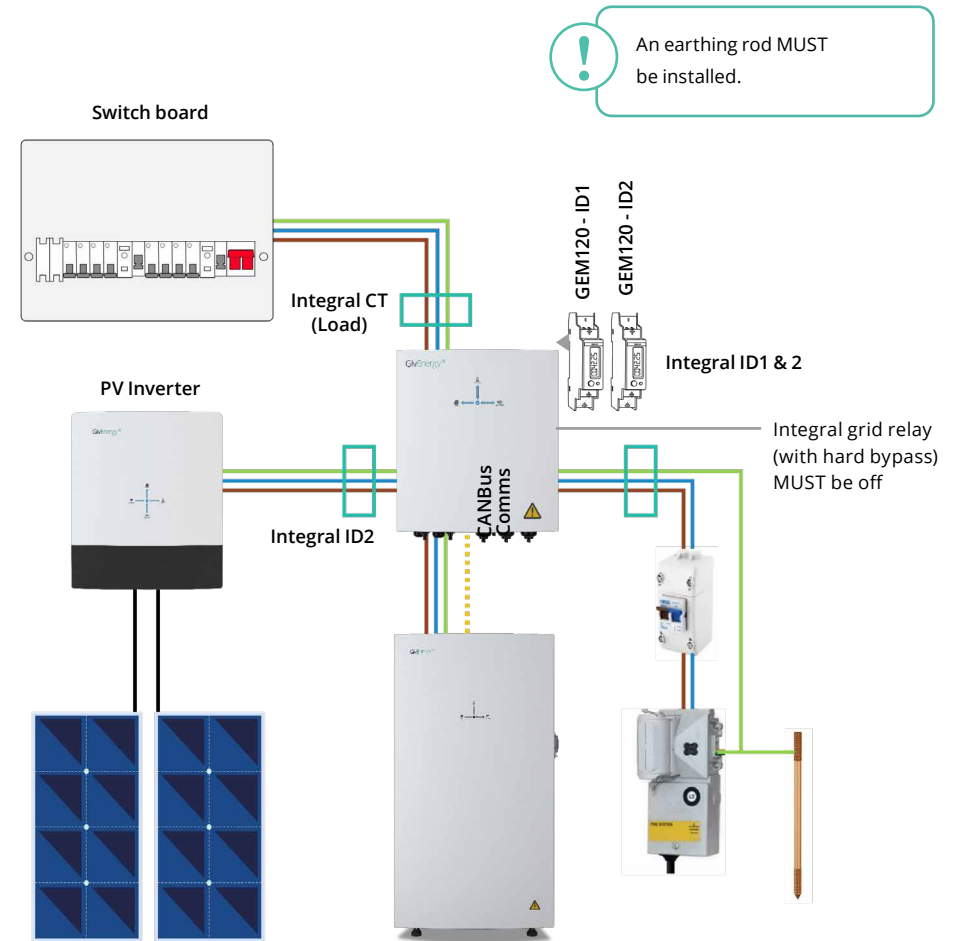
All in One & Giv-Gateway Fundamentals

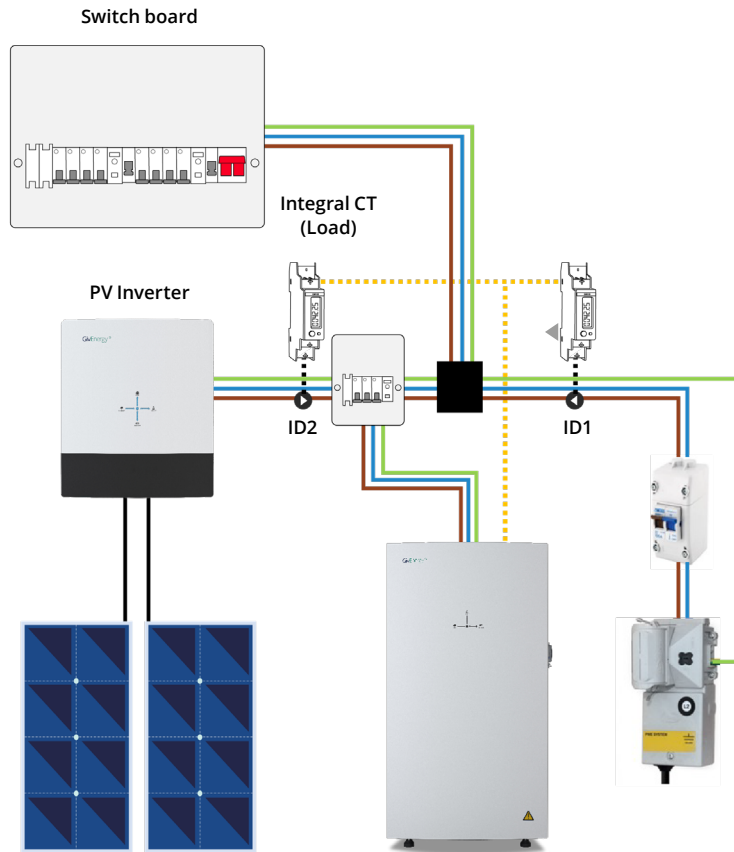


UNDERSTANDING YOUR GIV-GATEWAY



ALL IN ONE INSTALLATION WITH GIV-GATEWAY





Off Peak Charging

This is prioritised to charge the battery during off peak times when energy is cheaper, greener, and cleaner. The battery will start to discharge outside of the off peak time when energy is more expensive.



Solar Charging

This is prioritised to charge the battery utilising excess solar generation, when energy is cheaper, greener, and cleaner. The battery will start to discharge outside of the peak generating hours when energy is more expensive.



Back Up / Island Mode

The system has the ability to be used in the event of a power cut. To utilise this the All in One must be connected to a Giv-Gateway. In the event of a power cut the Giv-Gateway will seamlessly switch over to battery to power the whole home.



Off Grid Operation

Remotely disconnect your home from the grid at the push of a button using the GivEnergy App or Online Monitoring Portal.

MANUFACTURER WARRANTIES

The All in One and Giv-Gateway are covered by **10-year warranties**.

Products Covered

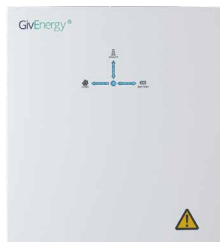


All in One 13.5
10 years

All in One 3.6 13.5
10 years

All in One 4.6 13.5
10 years

All in One 5.0 13.5
10 years



Giv-Gateway
10 years

Warranty documents can be found on our resource hub at www.givenergy.co.uk/resource-hub/

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Work with the best in the energy management business

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