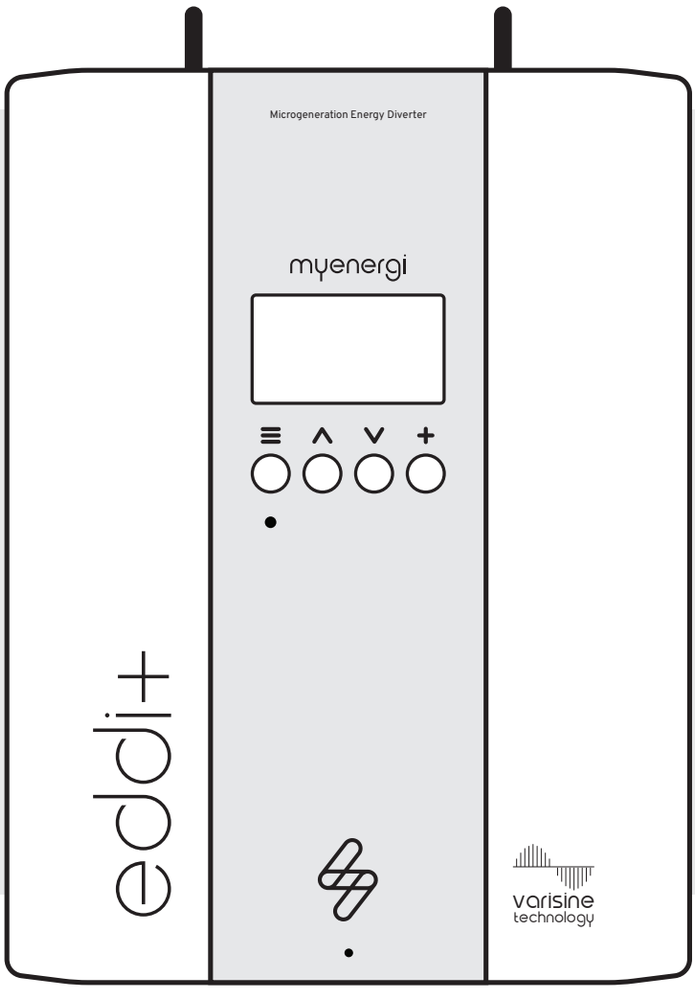
myenergi

eddi+



EN - Installation Instructions
DE - Installationshandbuch

myenergi.com

myenergi Ltd. Pioneer Business Park,
Faraday Way, Stallingborough,
Grimsby, DN41 8FF, UK

Published July 2025,
United Kingdom,
PM-00004

eddi+

Content

Find the latest information available on the myenergi support site by scanning the QR code

Legal Notices

Copyright

Copyright of these instructions remains with the manufacturer. Text and images correspond to the technical level at the time of going to press. We reserve the right to make changes. The content of the operating instructions shall not give rise to any claims on the part of the purchaser. We are grateful for any suggestions for improvement and notices of errors in the operating instructions. myenergi libbi, myenergi zappi, myenergi eddi, myenergi eddi+, myenergi harvi and myenergi hub are registered trademarks of myenergi ltd.

Liability limitation and Warranty

myenergi do not accept any direct or indirect liability for product or property loss caused by the following conditions:

- Product modification, design changes or use of unauthorised parts.
- Changes, repair attempts and erasing of serial numbers or seals by unauthorised person.
- System design and installation were not in compliance with standards and regulations; failure to comply with local safety regulations.
- Damage caused by any transportation of the products by the installer.
- Failure to follow any and/or all user manuals, installation guides and maintenance regulations.
- Improper use or misuse of the device.
- Force majeure (stormy weather, lightning, overvoltage, fire etc.)
- Damage from external factors.

Safety

Read all the safety instructions. Failure to install and operate the eddi+ in accordance with these instructions may cause injury or death, damage to the unit or inefficient operation and invalidate the manufacturer's warranty.

Manual Keeping

This manual contains important information about operating the device. Before operating, please read it very carefully. The device should be operated in strict accordance with the instructions in this manual. This manual should be kept for future maintenance.

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Indicates a notice or 'tip' to guide you.

CAUTION

- Only have the system installed and commissioned by qualified personnel with the appropriate skills.
- Prior to performing any work on the eddi+, disconnect from all voltage sources, as described in this document.
- Do not install or operate the system in potentially explosive atmospheres or areas of high humidity.
- The unit must be installed indoors and should be mounted to a flat vertical surface or wall, in the vertical orientation only and using the dedicated mounting bracket which comes attached to the unit.
- Do not install the unit in any environment of temperature below -20°C or over 40°C.
- Suitable fixings must be used dependent on application/mounting surface. To be determined by installer.
- The supply cord to/from this control can be replaced only by the manufacturer or his accredited service agent and shall conform to the requirements of EN 50525-2-11.
- This device must be supplied by an upstream 3-pole 16A type A or B MCB or equivalent overcurrent device..
- Only purely resistive loads must be connected to the eddi+ output terminals.

- The unit is not to be used by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they are supervised or have been given instruction concerning use of the device by a person responsible for their safety.
- The heat sink can exceed 70°C during normal operation, therefore do not touch.
- Do not put any heavy objects on top of the system.
- Do not damage the system with sharp objects.
- Only use replacement parts supplied or recommended by myenergi. Replacing of parts must be carried out by a suitably qualified installer.
- Under short-circuit conditions, the relays for heaters/outputs 2 and 3 may weld. If power to the device can not be reinstated at the upstream MCB, please consult your installer for repair or replacement options.

⚠ WARNING DANGER

- Ensure the device always has adequate ventilation; do not block the vents or obstruct airflow at the back or sides of the unit.
- The earth conductor must be correctly installed and reliably connected.
- Do not touch the system with wet hands.
- Do not wipe the system with a damp cloth.

Regulatory Information

This product complies with the applicable EU and UK directives/regulations:

- Radio Equipment (RED Directive 2014/53/EU & SI 2017 No. 1206
- Low Voltage (LVD Directive 2014/35/EU & SI 2016 No. 1101)
- Electromagnetic Compatibility (EMC Directive 2014/30/EU & SI 2016 No. 1091)

A copy of the Declaration of Conformity is available through the myenergi support portal.

https://support.myenergi.com/hc/en-gb/categories/20493987114129-Compliance-Download-Centre

Radio Equipment (RED)

This device incorporates a 868/915MHz radio and 2.4GHz wireless transmitter, and complies with EN62311 for risks to human exposure. Radio operates in bands between 868–870MHz / 915–916.3MHz – 25mW max. WiFi operates between 2412-2484 MHz (802.11 b/g/n) - 100mW max.

When your device is connected to the internet, it will automatically send minute-by-minute data to our servers. This includes information about its status, performance, charging events, schedules and energy usage, so we can show you useful information in the myenergi App or myenergi myaccount. Data on the servers can be accessed by myenergi in order to understand how your device is working, improve our services and resolve Customer or Technical Support queries. We will only know who you are if you or your installer has registered the device on the myenergi App, myenergi myaccount or myenergi Installer Assistant App.

For more information, please visit www.myenergi.com.

External CTs within the myenergi ecosystem are used to measure electrical current and provide data for minute-level energy monitoring.

Security Measures

To keep your device secure, a lockout will happen if a password or PIN is entered incorrectly:

Wi-Fi AP Password
Condition: 3 incorrect attempts in a row
Result: Locked for 1 minutes

Installer Device PIN
Condition: 3 incorrect attempts in a row
Result: Locked for 1 minutes

User Lock PIN
Condition: 3 incorrect attempts in a row
Result: Locked for 1 minutes

During lock out, further password or pin entry attempts are disabled, your screen will display:
Too many password attempts
{Countdown}s

If you're running Ethernet cable outside the property, make sure it's well protected. Exposed cabling can be vulnerable to tampering, which could lead to unauthorised access to the network. Wherever possible, keep cable runs indoors or route them through secure areas to reduce the risk.

Electromagnetic Compatibility (EMC)

This device has been designed and tested to fulfil applicable standards for:

- Radio frequency emissions when installed according to the instructions and used in its intended environment.
- Immunity to electrical and electromagnetic phenomena when installed according to the instructions and used in its intended environment.

This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under EU rules.

Electrical Safety

- This device is a Class 1 electrical item in accordance with EN 60730-1.
- Installation shall be ≤ 2000m above sea level.
- The supply for single-phase devices shall have a voltage of 230V AC ± 10%.
- The supply for three-phase devices shall have a voltage of 230/400V AC ± 10%.
- This device must be supplied by an upstream 3-pole 16A type A or B MCB or equivalent overcurrent device.
- The cross sectional area of the supply conductors shall be between 2.5mm² and 4mm² (stranded/solid) and rated at 500V min. Torque 0.5Nm. Wiring shall be installed without stress and free from being scratched by sharp objects.

G100 Compliance

eddi+ supports the Customer Import and Export Limitation Scheme (CLS), in accordance with G100 issue 2. Where G100 is required as part of an installation, then the installer must adhere to the G100 Commissioning Guidance document which can be located here:

https://support.myenergi.com/hc/en-gb/categories/20493987114129-Compliance-Download-Centre

Once the CLS is setup correctly, the master device within the myenergi eco-system will monitor the maximum import and export, and if necessary, instruct other devices to increase or decrease import or export if these maximum thresholds are ever exceeded.

Disposal

In accordance with European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in national law, used electrical devices must be collected separately and recycled in an environmentally responsible manner. Ensure that you return your used device to myenergi or obtain information regarding a local, authorised collection and disposal system. Failure to comply with this EU Directive may result in a negative impact on the environment.

Introduction

eddi+ is a 3-phase energy regulator, with manual/automatic action for use with microgeneration systems. Excess energy from the microgeneration system is used to heat water or rooms rather than exporting it to the grid. Grid current sensors simply clip around the incoming cables. These sensors are used to monitor excess power so eddi+ can automatically adjust the voltage to connected heater. eddi+ can effectively balance excess power across all three phases.

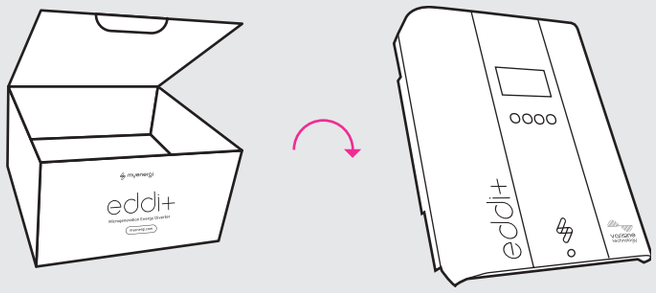
eddi+ utilises myenergi's proprietary varisine™ technology to ensure compliance with worldwide power grid standards.

Box Contents

	eddi+ with mounting bracket (fittings kit)	1x
	Current transformer with 5m cable (grid CT sensor)	3x
	PT1000 temperature sensor	1x

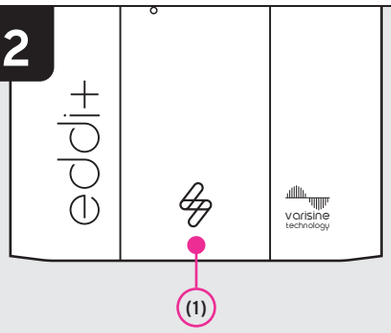
Opening

1

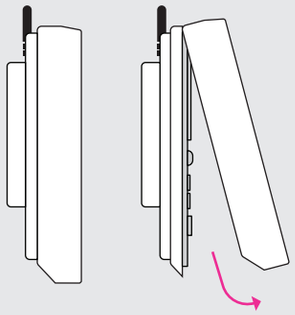


Remove eddi+ from packaging.

2



Place device on a flat surface, loosen the pozi-head captive screw (1)



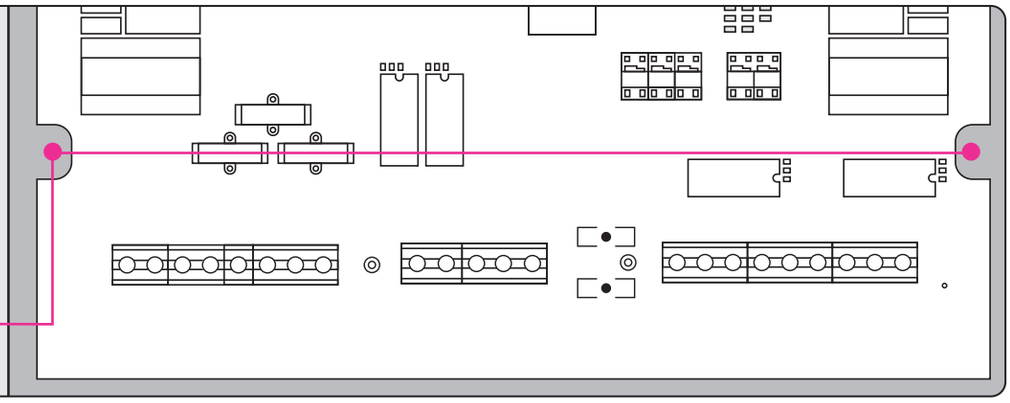
and lift cover off in a tilting motion.

Mounting and prepping

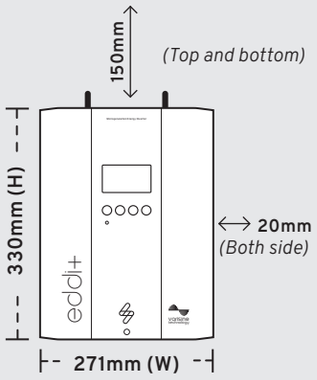
3

Loosen the two mounting bracket screws (2) and separate the bracket from the eddi+.

(2)



Minimum Clearances

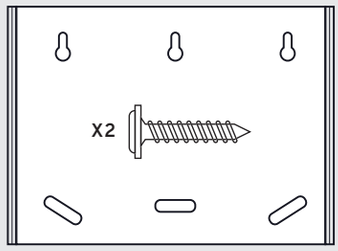


Ensure the device always has adequate ventilation; do not block the vents or obstruct airflow at the back or sides of the unit.

4&5

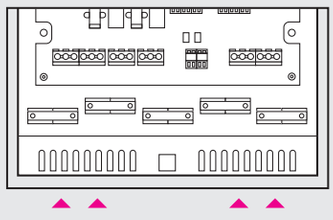
Place the bracket against the wall of the chosen location and mark the holes ready for drilling and fixing.

Suitable fixings must be used dependent on application/mounting surface. To be determined by the installer.

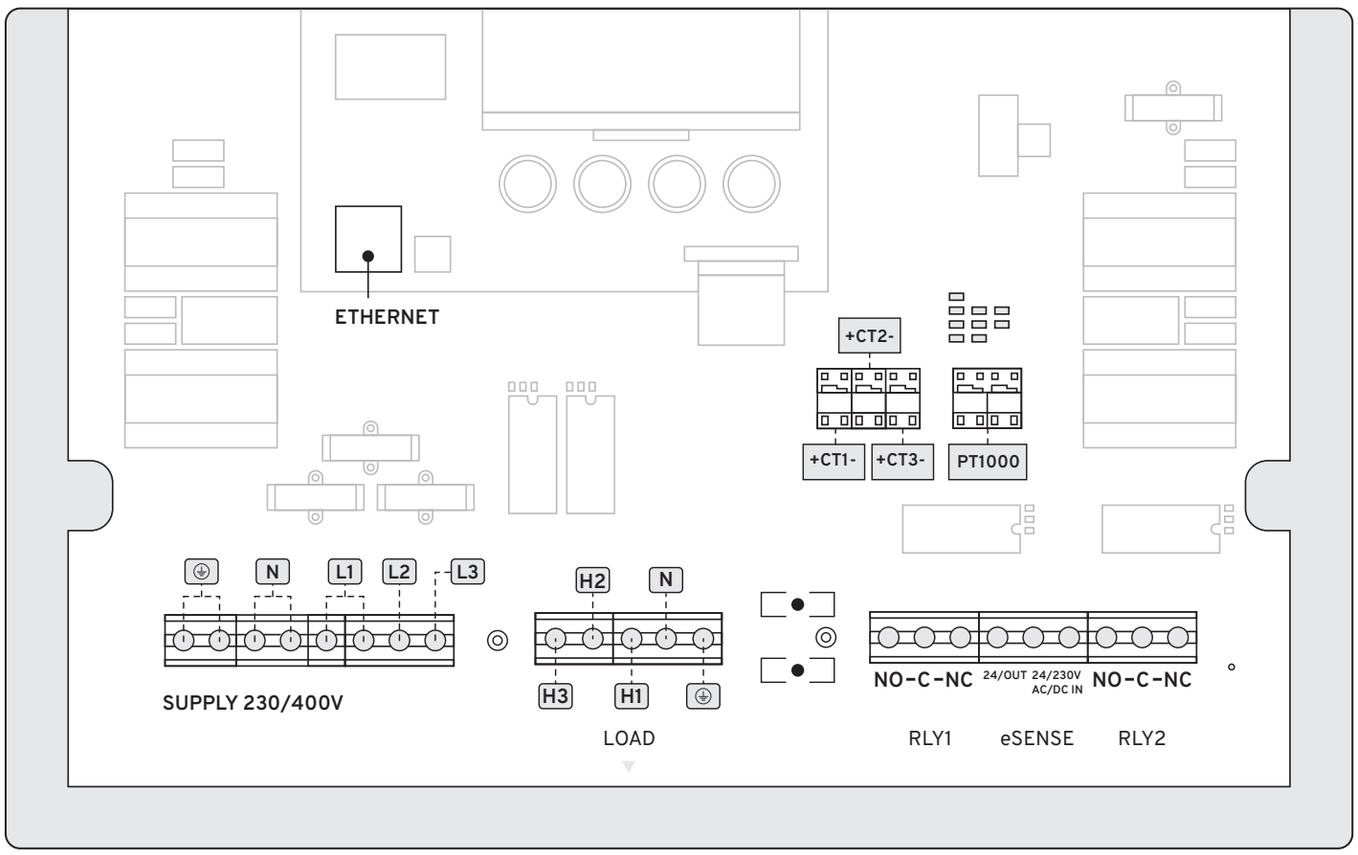


Pierce holes in grommets and pass all cables through and terminate to the corresponding terminals relative to the installation.

ELECTRIC SHOCK - An electric shock can be fatal; electrical connection work shall only be carried out by a competent person.



Wiring



Loads

Only purely resistive loads shall be used with eddi+. Examples include immersion heaters, storage heaters, convection heaters and underfloor heating mats. Whichever heater type is used, the following criteria shall be observed:

The following criteria shall be observed:

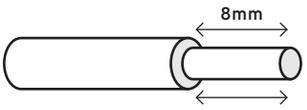
- Maximum rating of load: 3kW per phase.
- Minimum load rating: 150W.
- The load's neutral conductor shall be connected to the load output N terminal.
- No electronic controls shall be connected to the load terminals; mechanical thermostats only.
- No timers shall be connected to the load terminals, including mechanical timers.

Ethernet

If applicable, ensure an Ethernet cable is inserted into the RJ45 port

- *An electric shock can be fatal; electrical connection work may only be carried out by a competent person.*
- *The earth conductor must be correctly installed and reliably connected.*
- *This device must be equipped with an over-current protection device of maximum 16 Amps (B16).*
- *Only purely resistive loads must be connected to the Heater output terminals.*
- *The cross sectional area of the supply conductors shall be between 2.5mm² and 4mm² (stranded/solid) and rated at 500V min. Torque 0.5Nm.*
- *Wiring shall be installed without stress and free from being scratched by sharp objects.*

Strip length



Overview Diagram

The diagram above gives you an overview of the basic wiring with respect to the grid supply and the microgeneration system.

Supply

The eddi+ device should be connected to a 3-phase 230V or 240V nominal AC supply. The supply should be from a dedicated 16a circuit breaker, or it can be from a hard-wired 13A fused spur outlet if the heater load is less than 3kW.

Cable Clamps

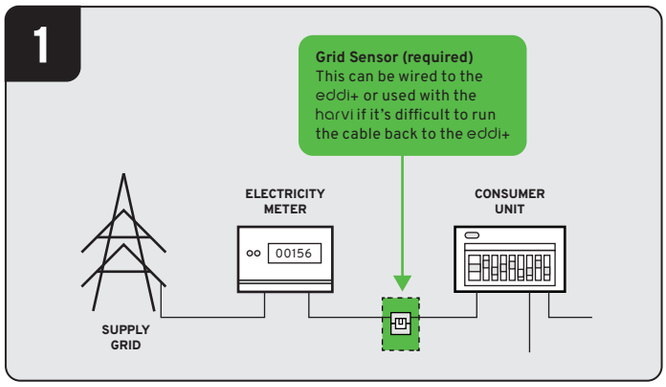
If using flexible cables or cables not secured by other means, the cable clamps must be used to secure the supply and heater cables.

Current Transformer Installation

Current Transformers (CTs) are used to measure current at various places of the installation. For example, the Grid connection point, the solar/wind inverter or a static battery system. Installation of a CT to monitor the Grid connection point is required. Other CTs are optional and can be purchased separately. The number and location of CTs used within an installation will vary according to devices installed and the user requirements.

CTs can be wired to any myenergi device with CT inputs (e.g. eddi, zappi or harvi). This enables very flexible installation as the CT can be wired to the nearest device.

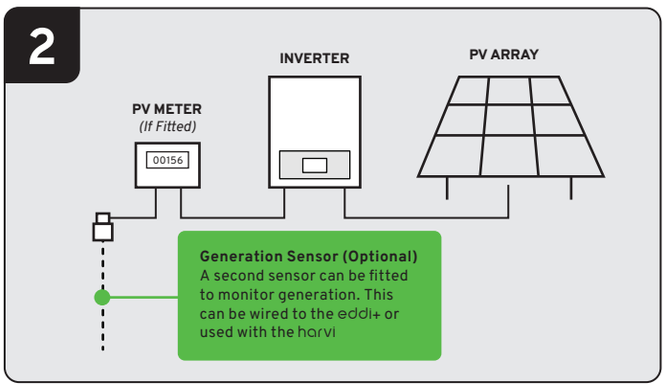
The harvi device can be used if it is not practical to connect any CT to the eddi or zappi.



Connecting the Grid CT (Supplied)

For a three-phase system, you must install one Grid CT sensor per phase. The supplied sensors should be clipped around the Live meter tail of each phase's electricity supply meter with the arrow facing in the direction of power flowing into the property. Do not use the Neutral conductor in a three-phase installation.

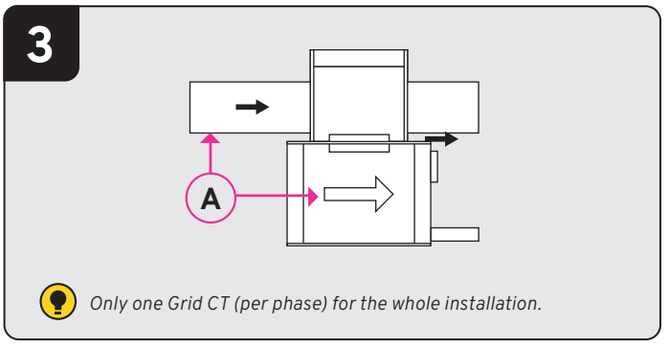
- ✓ Can be connected to any myenergi device with a CT input wired sensor or harvi (wireless sensor).
- ✓ ALL of the import and exported power must be 'seen' by the sensor – be sure to install it upstream of ANY junction box or 'Henley Block' (the CT can be fitted inside the consumer unit).
- ✓ There must be only one Grid CT per-phase for the whole installation (existing none myenergi CTs can not be used.)
- ✓ The arrow on the bottom of the CT sensor must be pointing towards the consumer unit (in the direction of grid import) on the Live cable.
- ✓ Ensure the CT is fully closed and clicks shut.
- ✓ Be sure to wire the CT the correct way round; black [–], red [+] otherwise import and export readings will be swapped.



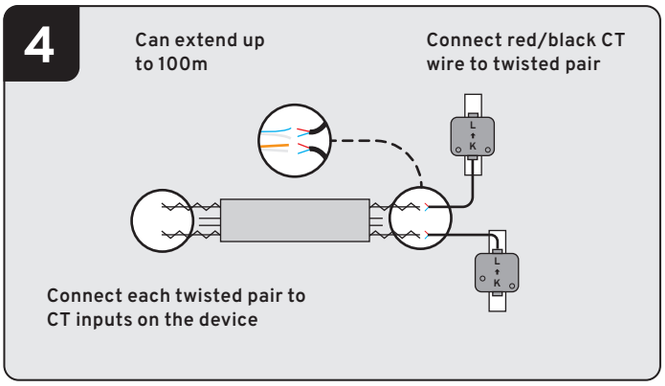
Adding additional CTs

Available separately to be used for monitoring the generation or other appliances such as battery systems or general loads. Installing a CT for the generator (PV system) will allow the main screen to show the generated power and the total power consumption of all the other appliances in the property. CTs can also be used to limit the power drawn from the supply.

- ✓ Additional CTs can be connected to any myenergi device with a CT input that is linked to the network.
- ✓ The arrow on the bottom of the sensor must be pointing in the direction of normal power flow (e.g. away from the PV inverter) on the Live cable.
- ✓ Ensure the sensor is fully closed and clicks shut.
- ✓ Be sure to wire the CT the correct way round; black [–], red [+].

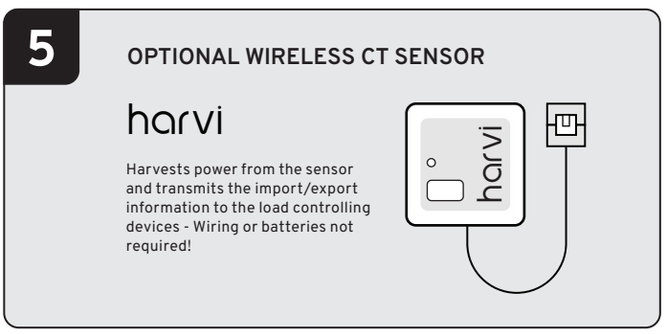


CT Sensor Installation



Extending the CT sensor cable

If there is a need to extend the CT sensor cable, twisted-pair cable like CAT5 or telephone cable must be used (only use one pair).
DO NOT use mains cable, bell wire or speaker cable. It is important to use only twisted-pair cable to maintain signal integrity. The cable can be extended up to 100m.



Wireless CT Sensor (optional accessory)

In some cases it can be difficult or impractical to install a wired sensor.

The solution is to install harvi – a clever little device that enables the myenergi products to be installed without using wired CT sensors for measuring the grid and/or generation power; instead the CT sensor is connected to harvi.

The harvi does not need batteries or a power supply – the energy from the sensor is harvested and used to transmit the measurement signal to the myenergi product. This means batteries or electrical wiring are eliminated! Up to 3 CT sensors may be used with harvi and it also supports 3-phase systems if three sensors are connected.

Refer to the harvi installation guide for details on installing and configuring harvi for your system.

CT Golden Rules

Grid CT

- Only ONE Grid CT per phase (check for only one ~ symbol in Linked Devices Info).
- Located to 'see' ALL import and ALL export current (i.e. always upstream of any junction box).
- Arrow pointing in direction of import (e.g. towards consumer unit if on Live cable).
- Must be on the same phase as the Controller myenergi device.

All other CTs

- Arrow should point towards the consumer unit.

3-Phase harvi CTs

- When using harvi in 3-phase mode, the CT inputs correspond to the phase number (e.g. CT1 = Phase 1).

CT can dos

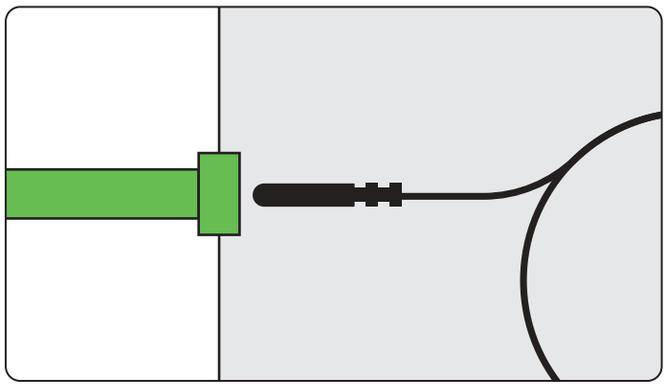
✓ Can be wired to ANY myenergi device in the network.
✓ harvi can be used to make ANY CT wireless.
✓ Cable can be extended up to 100m (must use twisted-pair cable e.g. one pair of CAT5).
✓ Cable can be shortened.
✓ Can be clipped around two or more conductors feeding appliances of the same type (e.g. two Live cables from two inverters that are on the same phase).
✓ Can be in close proximity to other CTs.
✓ Wires can be swapped around in device to reverse the direction of the readings (e.g. change import to export).
✓ Can be grouped with other CTs of the same type so that the power reading is summed (e.g. east and west solar generation).
✓ If single phase supply can be used on the Neutral conductor (direction of arrow or wires must be reversed).
✓ Can be set to None if you want to exclude the reading.

Hot Water Temperature Sensor Installation

Installing to a modern unvented/vented Cylinder

Modern boiler and heat pump cylinders come equipped with a temperature sensor pocket that the PT1000 temperature sensor can be inserted into.

Ensure that the supplied PT1000 has been placed inside the hot water temperature sensor pocket and is making a good connection.



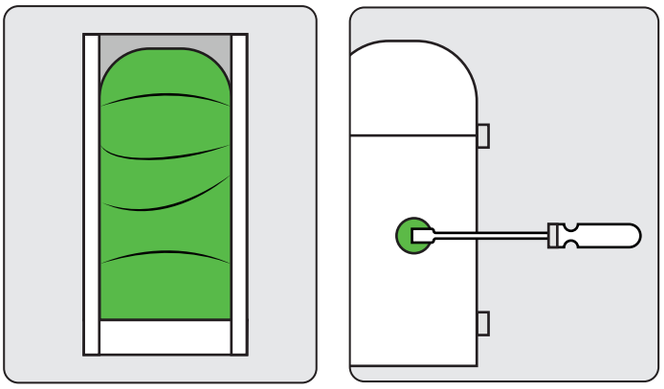
Installing to a traditional vented cylinder

Jacketed Cylinder

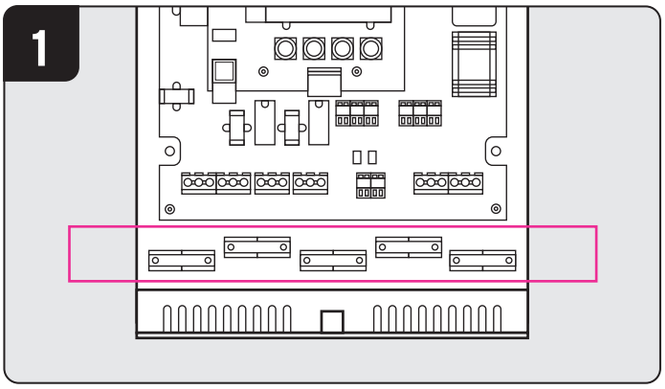
On a jacketed cylinder the PT1000 can be strapped or stuck directly to the copper outer wall of the hot water tank around the same height as the existing hot water cylinder that will be strapped to the tank already.

Preinsulated Cylinder

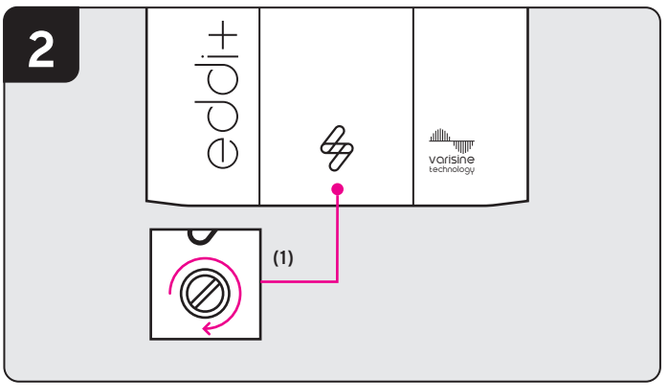
On a preinsulated cylinder a hole will need to be made in the insulation by inserting a screw driver to ensure that the PT1000 can be placed against the copper wall of the cylinder.



Reassembling



1. Suitably clamp all cables, using the cable clamps provided.



2. Refit the eddi+ cover and tighten the pozi-head screw (1) to secure.

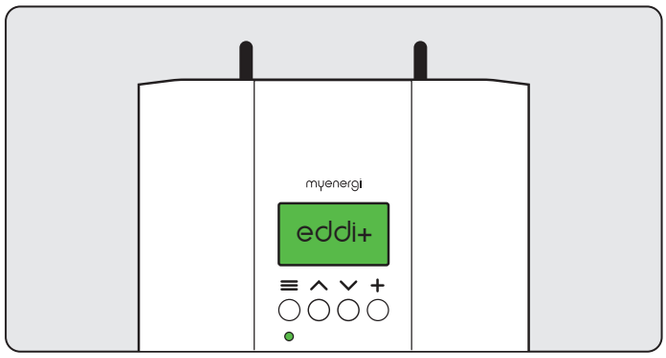
3. Carry out all relevant tests and inspections in accordance with local regulations, before applying power.

4. Once powered up, follow through the installation assistant set-up screens to configure the device settings. This will include setting a passcode to the Installer Settings Menu.

Start up

Initial Power-Up:

- Before switching on eddi+, ensure that all wiring and connections have been securely completed as per the instructions in the previous sections.
- Once you have verified the installation, connect eddi+ to the mains power supply.
- eddi+ will automatically power on and begin its boot sequence. During this time, the **Power ON Indicator** will illuminate, and the eddi+ logo will be displayed on the **Graphical LCD Screen**.



Initial Configuration:

- After successful initialisation, the eddi+ will prompt you to set up basic configurations such as time and date, language, time zone, and network connectivity (WiFi or Ethernet).
- Follow the on-screen instructions to complete these initial settings.

Network Connectivity:

- eddi+ comes with built-in WiFi and Ethernet connectivity. Connect your device to the internet to enable remote monitoring and control through the myenergi app.
- Follow the on-screen instructions to establish a connection. Once connected, the eddi+ can be linked to your myenergi account via the app.

Watch our video on connecting your product to the internet at support.myenergi.com.

support.myenergi.com/hc/en-gb

Decide How to Connect

You can connect your eddi+ to the internet using **Ethernet (wired)** or **WiFi**. Decide which option works best for your setup:

- **Ethernet**: If you prefer a stable, wired connection.
- **WiFi**: If your device is not near your router.

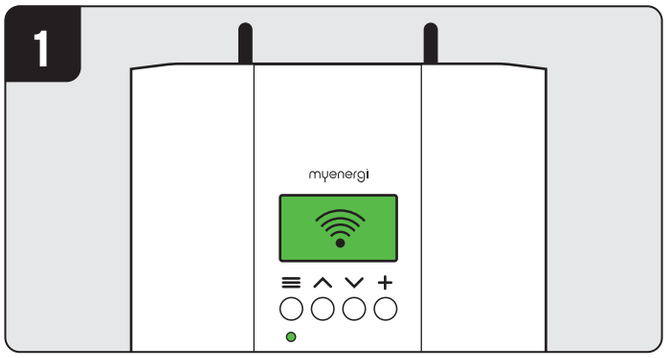
Connecting with Ethernet (Wired)

1. Before powering on the device, plug an Ethernet cable into the port inside the eddi+.
2. Connect the other end of the cable to your router.
3. The device will automatically use the Ethernet connection, and WiFi will be turned off.

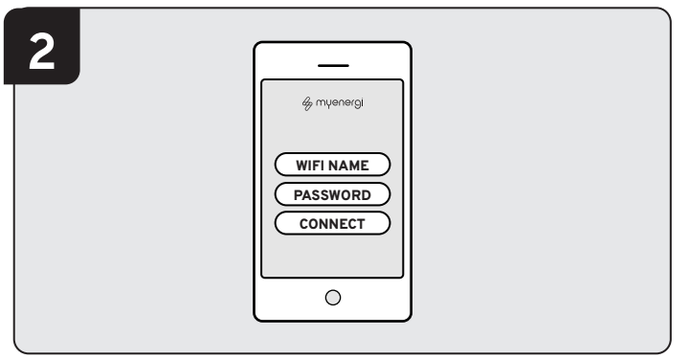
If you want to switch to WiFi later, unplug the Ethernet cable and manually turn on WiFi in the settings.

Connecting with WiFi (Installation Assistant)

If you are not using Ethernet, follow these steps to connect via WiFi:



1. During the installation assistant the WiFi Access Point is set to ON.

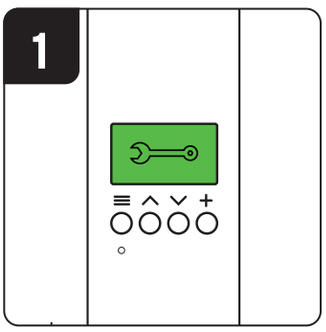


2. On your smartphone or computer, go to WiFi settings and connect to the network named after your device (e.g., “eddi12345”).
3. Enter the password displayed on the eddi+ screen.
4. Once connected, you’ll be asked to create a new password. This is for protecting your device settings. **Make sure to note it down**.
5. After the page reloads, select your home WiFi network from the list and enter your home WiFi password.
6. Confirmation that the device is connected will be displayed on the screen.

If the connection fails, make sure your phone or computer is still connected to the eddi+ network and try again.

If the automatic pop-up doesn’t appear, manually open your browser and go to “192.168.4.1“.

Connecting with Ethernet (Wired)

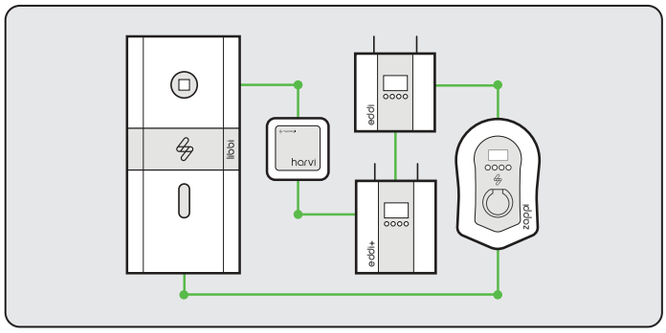


support.myenergi.com/hc/en-gb

1. The **Installation Assistant** will start and walk you through setting up the system, supply and device settings.
2. Follow the on-screen instructions to complete these settings each section will end with a review screen. Pay careful attention to the review screens and ensure you have the correct settings.
3. Once the Installation Assistant has been completed, you are required to set an installer passcode, following this you will be presented with the system overview display.

Ensure the Time and Date are set correctly for accurate energy management and scheduling. Enable Auto Daylight Saving Time Adjustment to automatically update the time during daylight saving changes.

Integrating into the ecosystem



Linking myenergi Devices

You can wirelessly link up to six myenergi devices to work together, enhancing energy use and control. Common devices you might link include:

- **zappi:** An eco-smart EV charge point that uses surplus power to charge your car.
- **harvi:** A wireless sensor that detects grid import/export conditions and generation power, sending this data to your eddi+ or zappi.

Controller (Master) & Devices (Slave)

When linking multiple devices, one device acts as the controller, controlling the others (known as Devices). The Controller device manages key settings like Grid Limit and Net Phases.

- **Set the Controller:** In the **Advanced Settings > Linked Devices menu**, choose which device will be the Controller. Pick the device that's easiest to access for adjustments.

Pairing Devices

To link your devices:

1. **Put the Devices in Pairing Mode:**
   - On the Controller Device, go to **Advanced Settings > Linked Devices > Pairing Mode**. If it's a harvi or hub, press the pair button.
2. **Activate Pairing on the Controller Device:**
   - On the Controller device, select Pairing Mode. The Controller will search for other devices in pairing mode.
3. **Add the Device:**
   - Select the device you want to link from the list and press + to add it. After pairing, the device will update and be ready to configure.

Legacy mode enables radio based pairing and communication between myenergi devices. This bypasses RED cybersecurity protections. Local device pairing via Ethernet or Wi-Fi is still available and does not require Legacy mode set to on. IMPORTANT: By enabling radio pairing and communication, you accept on the customer's behalf that this bypasses advanced security controls. For more information, visit www.myenergi.com.

Managing Channels

If you experience interference or poor connections, you may need to change the RF Channel:

- **Change the Channel:** First, reset the settings on all linked devices. Then, choose a new channel in the Channel menu and apply this change to all devices before attempting to link them again.

Removing Devices

To unlink a device:

- Go to the Devices menu, select the device, and choose Remove Device.

Device Settings and Priorities

- **Adjust Settings:** Some settings, like priority and CT inputs, can only be adjusted through the Linked Devices menu.
- **Set Priorities:** You can assign priority to each load-controlling device. This determines how surplus energy is distributed. Higher priority devices (shown as "1") will receive energy first.

Linked Devices Information

You can view the status of all linked devices on the Linked Devices Info screen:

Status Symbols:

- Indicates the device with the Grid CT.
- M Controller (Master)
- B: Device is currently boosting.
- Max: Device is at maximum output.
- Min: Device is at minimum controllable output.
- No Load: No load is connected.
- Communication issue with the device.

This screen provides a quick overview of your system's performance and configuration.

Net Phases

All meter readings from 3-phase eddi+ devices will be netted. This means that surplus generation on ANY phase will be considered to be available

If eddi+ is not the controller (master) then the product set as the controller will need to have Net Phases activated see support.myenergi.com for details

Testing

Testing the System:

1. After the initial setup, it's important to test the system to ensure everything is operating as expected.
2. Activate the Manual Boost function to verify that the heater loads are correctly responding to commands.
3. Check the real-time energy data on the LCD screen or via the myenergi app to confirm that the system is diverting surplus energy correctly.

Manual Boost Activation:

To verify that the eddi+ is functioning correctly, activate the Manual Boost feature to test the connected heating elements. Follow these steps to activate a manual boost:

1. Ensure that the power levels displayed correspond to the expected output based on the boost settings and available surplus energy.
2. From the main screen on the eddi+ display, press the Menu button. (≡)
3. If multiple heaters are connected, select the desired heater by pressing the Up (↑) or Down (↓) buttons.
4. Press the + button to start the boost. The display will show the current power being diverted to the selected heater.
5. The default boost duration is 1 hour. To adjust the boost time, press the Up (↑) or Down (↓) buttons during the boost.
6. To cancel the boost at any time, press the + button twice.

Monitoring Energy Flow:

- Check the real-time energy data on the eddi+ LCD screen or via the myenergi app to confirm that the system is diverting surplus energy to the heating elements as intended.
- Ensure that the power levels displayed correspond to the expected output based on the boost settings and available surplus energy.

Three-Phase Setup Verification:

- For installations involving three-phase power, ensure that the correct phase is selected in the configuration settings. This ensures accurate power measurement and appropriate system response.
- Test each phase individually by observing the energy flow on the CT display menu **(Installer Settings > CT Config menu)** or in the app to ensure all phases are correctly configured.

Final Checks:

- Confirm that all CT sensors are correctly installed and providing accurate readings across all phases.
- Ensure all protective covers are securely in place before completing the installation process.

Handover

Explaining System Operation

Take a few moments to explain the basic operation of the eddi+ to the end user:

- **Manual Boost:** Show them how to manually boost the heating system and explain when they might want to use this feature.
- **Monitoring:** Demonstrate how they can monitor real-time energy usage on the device's LCD screen.
- **Modes:** Explain the different operating modes (e.g., **Waiting for Surplus, Heating**) and what they signify.

Note Down Key Details

Before beginning the app setup, the end user will need some details, make sure to note down the following details.

- **Device Serial Number:** This is unique to each unit and will be required during the app registration process.
- **Reg-Code:** This is found in the Information screen 2/2 and will be required during the app registration process.
- **WiFi Access Point Password:** Ensure you have the password handy that was created during the WiFi setup.

Providing Documentation

Finally, hand over all relevant documentation, including:

- The **Operating Instructions** for eddi+.
- Any quick start guides or technical support contact information.
- Written down details (such as the WiFi AP password and serial number) that may be needed for future reference.

Encourage the end user to keep these documents in a safe place for future use.

Connecting to myenergi App:

1. To fully unlock the features of eddi+, the end user should download the myenergi app from the appropriate app store and register their device. www.myenergi.com/getting-started.
2. Once registered, the app will guide you through linking your eddi+ to your account. This will allow the end user to monitor and control their energy usage remotely.

Download on the App Store

GET IT ON Google Play

3rd Party Battery Systems

Working with 3rd party Batteries

If the property has a static AC battery system installed, it's possible to get the eddi+ to work in harmony with the system, provided a CT has been installed to monitor the battery inverter.

Setting	Function Description
None	There is no battery system installed
Limit to Gen	Will limit the output of the eddi+ (except when boosting), to prevent unwanted draining of an AC coupled battery system. This setting does not require a CT to monitor the battery, but does need a CT to monitor the solar/wind generation. *This setting is to support legacy installations - it is preferable to install a CT to monitor the battery and use one of the settings below.*
Avoid Drain	Stops the eddi+ (or other linked myenergi devices) draining the battery when using surplus power from the solar or wind generation
Avoid Charge	Effectively allows the eddi+ (or other linked myenergi devices) to take priority over the battery when charging from solar or wind generation.
Avoid Both	Provides both of the above functions.

Exp Threshold

The amount of export that must be exceeded before eddi+ starts diverting power to the connected load. Once diverting starts, all the surplus power less the Export Margin (see below) will be diverted to the connected load.

Export Margin

Sets a minimum level of export power which is maintained when eddi+ is diverting surplus power to the heater. Normally Export Margin would be set to 0W (zero watts) and all available surplus will be diverted to the load, however, it is sometimes desired to have a minimum export level at all times.

Response Delay

Sets a delay before eddi+ starts to divert power (after the Export Threshold is exceeded). The default setting is 0s (zero seconds), however, if there is an AC-coupled battery storage system installed at the property, this may need to be increased.

Load Balancing / Current Limiting

Load Balancing/Current Limiting

CTs can also be used to limit the current drawn by myenergi devices to avoid overloading circuits; this is referred to as load balancing or load curtailment. There are four different ways to limit current and they can be used alone or combined for more complex situations.

Device Limit

The maximum current that eddi+ will draw per phase (including when boosting). This is useful if the supply current is limited.

Grid Limit /Import Limit

The limit that can be drawn from the grid connection i.e. maximum import current or the main property fuse rating. This is a global limit so all paired myenergi devices will be included when limiting.

Relay and Sensors

eddi+ relay and eSense terminals allow for numerous wiring configurations and includes the following features:

- Two independent relays rated at 250V AC, 16A.
- eSense input (range 3.3 - 230Vrms. Volt Free Contact; 24V DC Supplied from the eddi+)
- Two temperature sensor inputs (PT1000)

These Relays can support a number of functions, configured via a preset or a custom configuration.

The relay functions include:

- Heat Pump PV Enable
- De-stratification pump control
- Auxiliary control
- Timed Operation
- Operate when Heating
- Export Threshold activation
- Import Threshold activation

System Presets:

eddi+ comes with an ever evolving set of preset configurations, to see the latest applications possible please visit support.myenergi.com

Operating

Using Manual Boosts

The **Manual Boost** feature allows you to temporarily increase the power to your heating system, regardless of available surplus energy. Here's how to activate it:

1. **Access the Menu:**
   - On the eddi+ display, press the Menu button ☰ to enter the main menu
2. **Select the Heater:**
   - Use the Up (↑) and Down (↓) buttons to navigate through the options and select the heater you wish to boost.
3. **Activate Boost:**
   - Press the + button to start the boost. The display will show the current power being diverted to the selected heater.
4. **Adjust Boost Duration:**
   - The default boost duration is 1 hour. You can adjust this time by pressing the Up (↑) or Down (↓) buttons during the boost.
5. **Cancel the Boost:**
   - To cancel the boost at any time, press the + button twice.

Use the Manual Boost feature when you need extra heating immediately, such as for a quick hot water supply.

Setting Schedules

You can set up scheduled boosts to automatically power your heating system at specific times. This is useful for ensuring hot water or heating is available when you need it.

1. **Enter the Menu:**
   - Press the Menu button ☰ to access the main menu.
2. **Navigate to Boost Timer:**
   - Scroll down to Schedules using the Up (↑) or Down (↓) buttons and press the + button to select it.
3. **Choose the Heater:**
   - If you have more than one heater, select which one you want to schedule a boost for.
4. **Set the Boost Times:**
   - You can set up to four different time slots for each day. Use the + button to adjust the start time, duration, and days of the week for each slot.
   - Once you've set the time slot, press the Menu button ☰ to save the schedule.
5. **Review and Confirm:**
   - Review your schedule settings to ensure they are correct. The eddi+ will now automatically boost at the times you've set.

Use scheduling to maximise efficiency by aligning boosts with times when you expect to need hot water or heating.

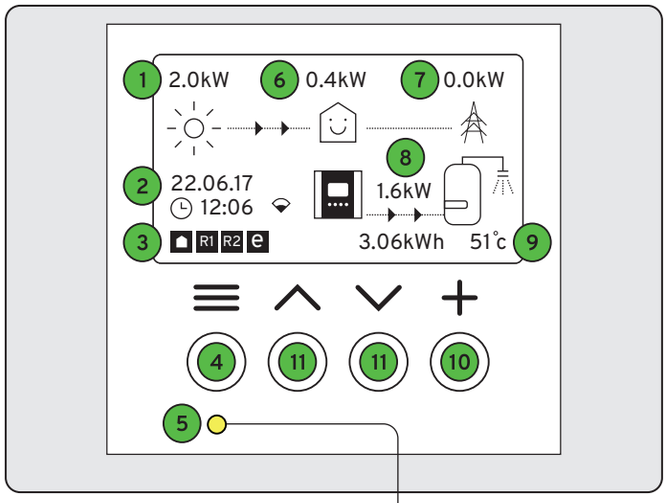
Cancelling Boost

The boost can be cancelled by pressing the + button twice during a boost.

User Operating Instructions

The customer can find the User Operating Instructions by scanning the QR Code or clicking the link below.

support.myenergi.com/hc/en-gb



1	Solar Generation
2	Time/date & WiFi / Ethernet indicator
3	Relay / eSense Status Icons
4	Menu / Back Button
5	LED Status
6	Home Energy Consumption
7	Grid Import /Export
8	Power being diverted
9	Tank Temperatures
10	Accept / Boost Button
11	Menu Up/Down Navigation Buttons

LED Status

- Waiting for Surplus
- Diverting Microgeneration Energy (Pulsing)
- Boosting (Pulsing)
- Stop / Stopped
- Holiday Mode
- Fault

LED Status pulses when charging the tank

Connecting Or Reconnecting The Internet Connection

Decide How to Connect

You can connect your eddi+ to the internet using **Ethernet (wired)** or **WiFi**. Decide which option works best for your setup:

- **Ethernet:** If you prefer a stable, wired connection.
- **WiFi:** If your device is not near your router.

If no valid Wi-Fi credentials are available or AP mode is manually turned on, the myenergi device enters Access Point mode, creating a temporary local hotspot for configuration. This mode lasts 15 minutes and will automatically disable, requiring reactivation if needed; the time limit is fixed.

With Wi-Fi AP mode turned on, you can connect directly to your myenergi device using a web browser. Enter the device's local IP address (usually 192.168.4.1) to access the setup page. The first time you do this, you'll be asked to create a password. This is used to protect your zappi settings. You need to complete this step before the device can connect to your home network and access online services

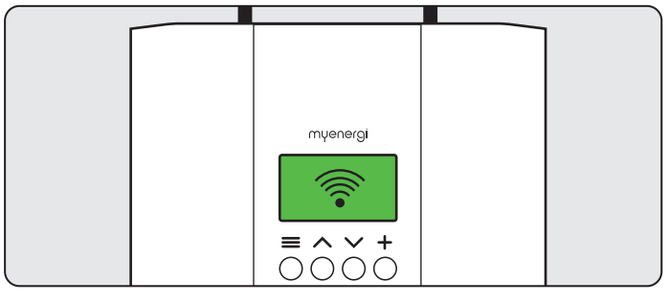
Connecting with Ethernet (Wired)

1. **Before powering the device**, plug an Ethernet cable into the port inside the eddi+.
2. Connect the other end of the cable to your router.
3. The device will automatically use the Ethernet connection, and WiFi will be turned off.

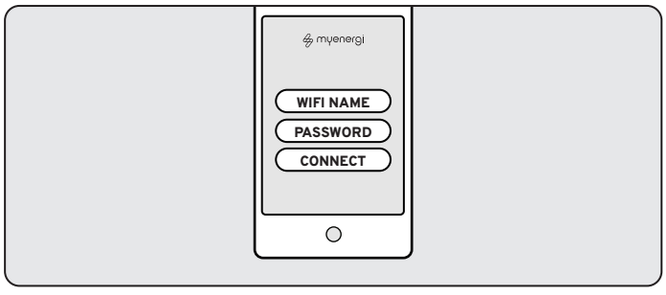
If you want to switch to WiFi later, unplug the Ethernet cable and manually turn WiFi on in the settings.

Connecting with WiFi

If you are not using Ethernet, follow these steps to connect via WiFi:



1. On your eddi+, go to **Other Settings > Internet > WiFi > WiFi Config.**
2. Ensure WiFi and **Access Point** are both set to **ON**.



3. On your smartphone or computer, go to WiFi settings and connect to the network named after your device (e.g., "eddi12345").
4. Enter the password displayed on the eddi+ screen.
5. Once connected, a popup will appear and you'll be asked to create a new password. This is for protecting your device settings. **Make sure to note it down.**
6. After the page reloads, follow the on screen instructions to connect to the home WiFi network.
7. Confirmation that the device is connected will be displayed on the eddi+ screen.

If the connection fails, make sure your phone or computer is still connected to the eddi+ network and try again.

If the automatic popup doesn't appear, manually open your browser and go to "192.168.4.1".

Troubleshooting & Maintenance

Troubleshooting

If you encounter any issues with your eddi+, here are some common problems and solutions:

1. No Response from the Heater

Issue: The heater is not responding to commands from the eddi+
Solution:

- Check the power supply to the eddi+ and the heater.
- Verify that the heater is correctly connected and has not tripped its circuit breaker.
- Try performing a Manual Boost to see if the heater activates.

2. WiFi Connection Issues

Issue: The eddi+ is not connecting to WiFi.
Solution:

- Ensure that WiFi is enabled on the eddi+ by checking under **Other Settings > Internet > WiFi > WiFi Config**.
- If an Ethernet cable is plugged in, unplug it and retry the WiFi setup.
- Move the eddi+ closer to the router or ensure there are no obstructions causing interference.

3. Device Not Showing in the myenergi App

Issue: The eddi+ is not appearing in the myenergi app.
Solution:

- Ensure that the eddi+ is connected to the internet.
- Restart the myenergi app and the eddi+ device.
- Check if the device's serial number is correctly registered in the app.

4. Overheating Warning

Issue: The eddi+ displays an overheating warning.
Solution:

- Ensure the unit is well-ventilated and not exposed to direct sunlight or heat sources.
- If overheating persists, reduce the load on the device or contact technical support.

5. Device showing auto imbalance warning.

Issue: The heater phases are connected to unequal resistive loads.
Solution:

- Disconnect the device from the power supply.
- Connect each heater output to an identical resistive load.
- Reconnect the device to the power supply.

For persistent issues or fault codes, refer to the detailed troubleshooting section in the user manual or contact myenergi support for assistance

6. Help Centre

If you experience any issues with your myenergi device, please visit our Help Centre by scanning the QR Code or clicking the link below.

support.myenergi.com/hc/en-gb

7. Warranty

Full details of the myenergi product warranty are available on our website or by scanning the QR code or clicking the link below.

myenergi.com/terms-and-conditions/myenergi-product-warranty/

8. Routine Maintenance & Cleaning

We recommend a routine observation of the eddi+. This should be carried out by a competent person and its main aim is to look for any signs of damage and abnormalities. This is a visual inspection only and should not entail removing cover or dismantling the eddi+ in any way.

Observational Inspection
Operating Environment

- By sight only, carefully observe whether there are any signs of damage to the eddi+.

Full Maintenance Inspection
Cable, Terminal and Equipment Inspection

- Check for loose cable connections.
- Check for aging and/or damaged cables.
- Check for loosening of the cable terminal screws.
- Check for any signs of overheating.
- Do not wipe the system with a damp cloth.

Maintenance regime

Ensure the device always has adequate ventilation; do not block the vents or obstruct airflow at the back of the unit.

Do not attempt to disassemble, tamper, modify or repair the device, as it has no user serviceable parts. Servicing and repair must only be carried out by a suitably qualified installer, with approved myenergi parts.

Technical Specification

Electrical

Rated Supply Voltage (+/-10%)	3x 230/400V (3-Ph)
Supply Frequency	50Hz
Rated Current	16A
Standby Power Consumption	4W
Generator Size Supported[1]	No limit
Resistive Load Size	150W min./9kW max.
Wireless Interface[3]	868 / 915MHz (proprietary protocol) for wireless sensor and remote monitoring options
WiFi Connectivity	2.4GHz 802.11 b/g/n Connection up to 150 Mbps
Grid Current Sensor[2]	100A max. primary current 16mm max. cable diameter
Supply Cable Entry	Bottom Entry
Temperature Sensor Inputs	2x PT1000
eSense Input	230V AC Sensing (4kV Isolated) Range 3.3-230Vrms Volt Free Contact (24Vdc Supplied from the eddi)
Multifunction Relays	2x 16A / 250V AC rated

Mechanical

Dimensions (H x W x D)	330 x 271 x 64mm
Net Weight	5.14Kg
Protection Degree	IP20
Enclosure Material	Powder Coated Zintec Steel
Operating Temperature	-20°C to +40°C
Mounting Method	Wall Mounting Bracket
Storage Temperature	-40 to 70 °C
EMC device class	Class B
Overvoltage category	3
Pollution Degree	2

Performance

Power Control Technology	VariSine™ pure sine wave (Pulse Width Modulation)
Outputs	1x 9kW
Cooling	Rear mounted passive cooled heatsink
Indicators	RGB - refer to operation manual for details
Display	Graphical LCD with LED backlight (Shows heating status and savings data)
PWM Resolution	0.1%
Measurement Accuracy	+/- 1.5% typical
Power Conversion Efficiency	97.5% typical
Mode of Operation	Type 1.B

Compliance

RED 2014/53/EU, EMC 2014/30/EU, LVD 2014/35/EU.
EN 60730-1, EN 61000-6-1, EN 61000-6-3, EN301 489-1, EN301 489-3, EN300 220-2. EN 300 228, EN 62311

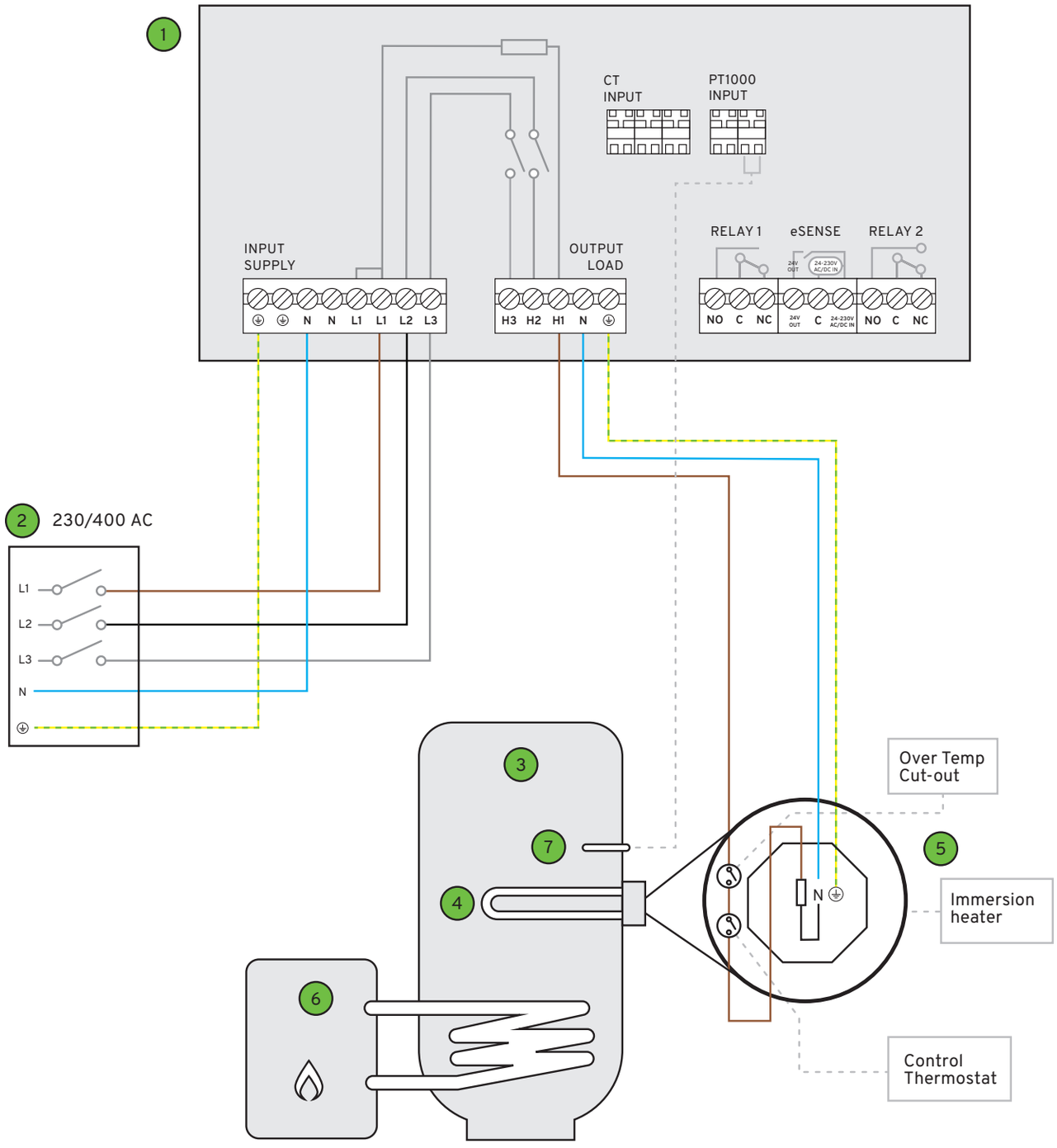
Model Code

EDDI-16A3P02H

[1] Subject to 100A per phase grid supply
[2] 65A when current transformer is connected using a harvi wireless transmitter (optional)
[3] 915MHz frequency for Australian installs only.

Application Examples

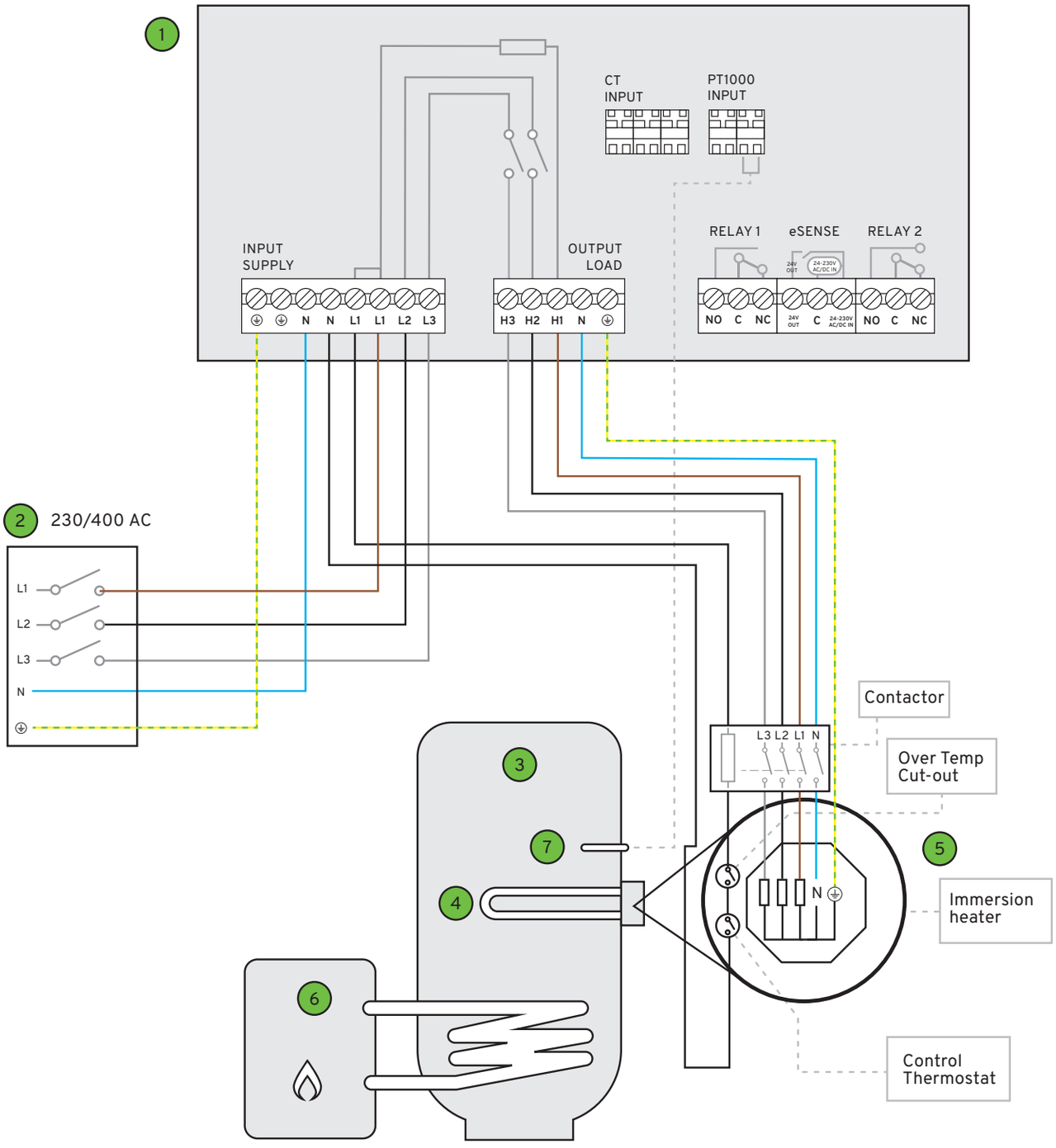
1. eddi+ fitted to a single cylinder with a single phase Immersion heater.



KEY

1. eddi+ three phase Solar Power Diverter.
2. 230/400V AC power supply.
3. Hot Water Storage Tank.
4. Single phase immersion heater.
5. 3kW Immersion heater.
6. Auxiliary Gas Boiler.
7. Supplied PT1000 temperature sensor.

2. eddi+ fitted to a single cylinder with a three phase immersion heater.



KEY

1. eddi+ three phase Solar Power Diverter.
2. 230/400V AC power supply.
3. Hot Water Storage Tank.
4. Three phase immersion heater.
5. 9kW Immersion heater internal view with Cylinder thermostat & thermal cut out.
6. Auxiliary Gas Boiler.
7. Optional PT1000 temperature sensor.

UK
myenergi
Pioneer Business Park
Faraday Way
Stallingborough
Grimsby
DN41 8FF
United Kingdom

+44 333 300 1303
www.myenergi.com

IRELAND
myenergi
101 Baggot Street Lower
Southside
Dublin
D02 TY29
Ireland

+353 12 00300
www.myenergi.com/ie/

AUSTRALIA
myenergi
31/536 Clayton Road
Clayton South
Melbourne
Victoria
Australia
3169

+61 1300 743 443
www.myenergi.com/au/

NETHERLANDS
myenergi BV
Fregatweg
66 6222NZ
Maastricht-North
Limburg
Netherlands

+31 85 400 55
www.myenergi.com/nl/

DEUTSCHLAND
Hauptsitz:
myenergi GmbH
Köhlstraße 10b
50827 Köln
Germany

Niederlassung:
myenergi GmbH
Subbelrather Straße 15A,
50823 Köln
Germany

+49 221 8464 4555
www.myenergi.com/de/