myenergi

eddi+

Microgeneration Energy Diverter

myenergi

eddi+

varisine
technology

**User Operating
Instructions**

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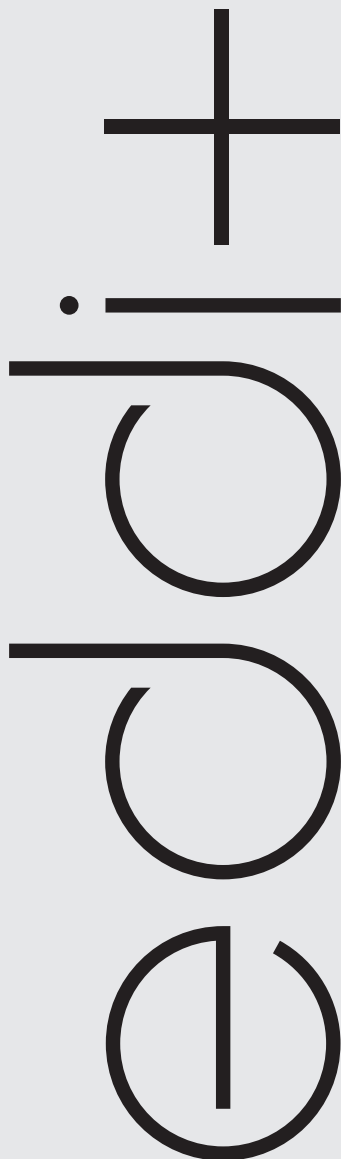
Find the latest information available on the myenergi support site by scanning the QR code

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Legal Notices

Intellectual Property

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Legal notice

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Liability Limitation and Warranty

myenergi do not accept any direct or indirect liability for product or property loss caused by the following conditions:
- Product modified, design changed or parts replaced without authorisation.
- Changes, repair attempts and erasing of serial numbers or seals by unauthorised person.
- System design and installation where 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.
- 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.
- The supply cord to this control shall conform to the requirements of EN50525-2-11.
- 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.

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.

Radio Equipment (RED)

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.
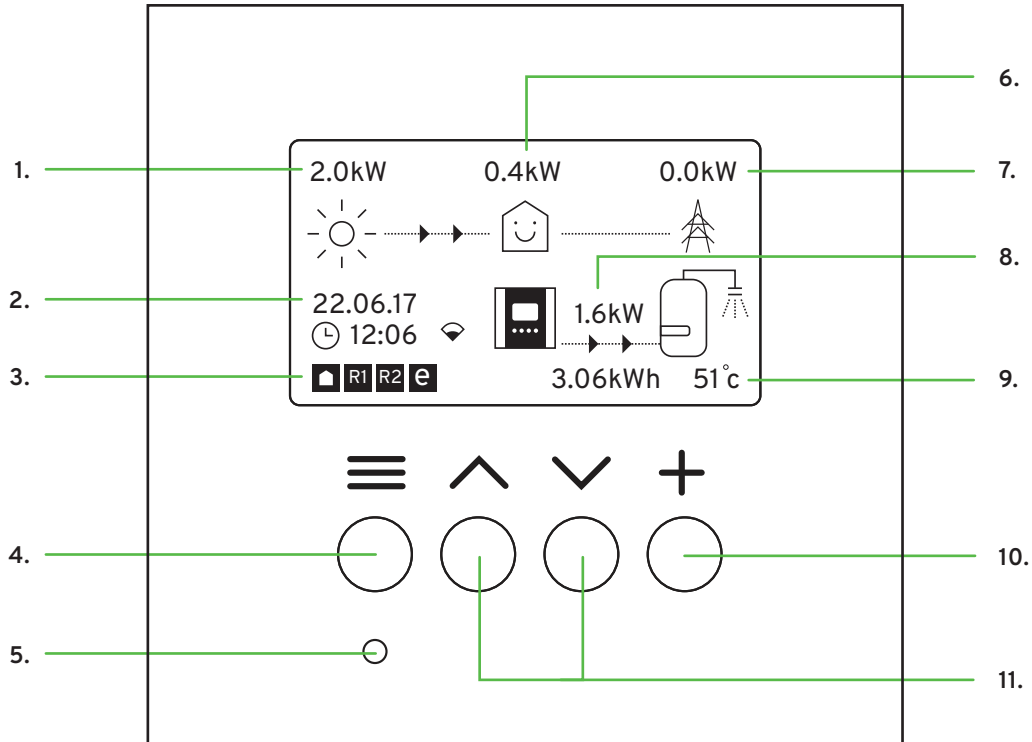
WELCOME TO

Congratulations on your eddi+ purchase.

Use your power, your way. eddi+ helps you save money and use your renewable energy more efficiently.

This guide will help you get started quickly and easily. Let's dive in.

Display Overview

Display readout:
2.0kW   0.4kW   0.0kW
22.06.17
12:06
R1 R2 e
1.6kW
3.06kWh   51°c

1. Solar Generated Power
2. Time/Date & WiFi/Ethernet indicator
3. Relay/eSense Status Icons
4. Menu/Back Button
5. LED/Status

6. Home Power Consumption
7. Grid Import/Export
8. Power Being Diverted
9. Tank Temp & Energy Diverted Today
10. Accept/Boost Button
11. Menu Up/Down Navigation Buttons

LED Status

- Waiting for Surplus
- Diverting Microgeneration Energy (Pulsing)
- Boosting (Pulsing)
- Stop/Stopped
- Max Temp Reached (Solid)
- Fault

Display Icons

| Icon	Description		Icon	Description
	House Consumption - Not Importing			Heater – Top Immersion
	House Consumption - Importing			Heater - Bottom Immersion
	Wind Generation Power			Heater - Radiator
	Solar Generation Power			Heater - Underfloor
	Grid Power			Heater - Swimming Pool
	Power Flow Direction - Large Amount			Relay - Relay 1
	Power Flow Direction - Medium Amount			Boiler
	Power Flow Direction - Small Amount			Heat Pump
	Waiting for Surplus Power			Message Available
	Max Temperature Reached			Limiting Active
	eddi+ Device - Normal		R1 R2	Relay 1 or 2 – On
	eddi+ Device - Too Warm (output limited)		e	Economy Tariff Electricity Available
kW	Instantaneous Power			DSR Mode Active
kWh	Accumulated Energy Today			WiFi Strength
				Heater - Heat Battery

How to Manual Boost

Using Manual Boosts

Need hot water or heating quickly? The "Manual Boost" feature lets you temporarily power up your heating system, even if there's not enough surplus energy.
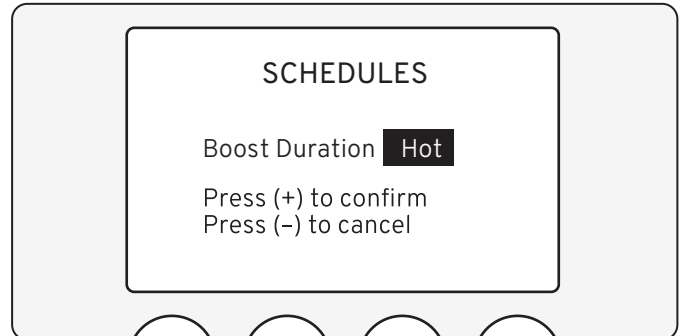
Here's how to use Manual Boost:
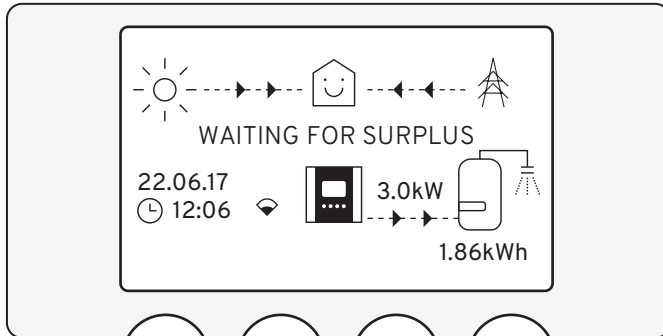
1. **Press the (+) button** from the main screen to access the Boost Menu.
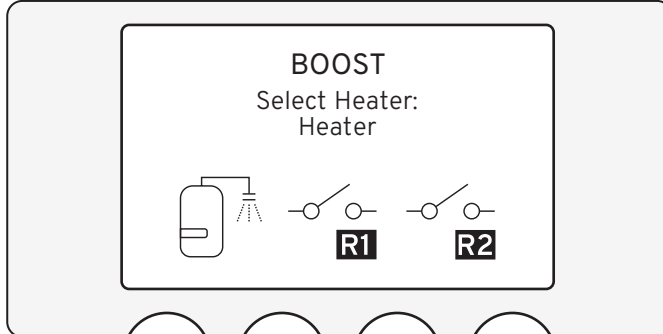
2. **Select the Heater:** Use the up (↑) and down (↓) arrows to pick the heater you want to boost.

Sparki Says: Use "Manual Boost" for one-time burst of power, –great, when you're in a hurry!"

3. **Activate Boost:** Press (+) again to start. The screen will display the remaining boost time.

💡 *"Hot" will activate the heater until max temperature is reached.*
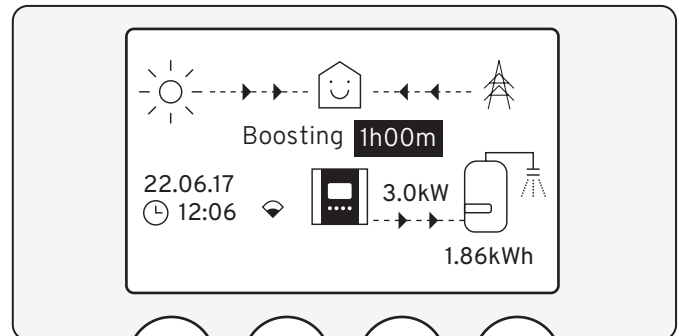
4. **Adjust the Duration:** Use the arrows to increase or decrease the boost duration in 15-minute intervals.

5. **Cancel Anytime:** Press (+) again and select the heater you wish to cancel the boost on.

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Setting Schedules

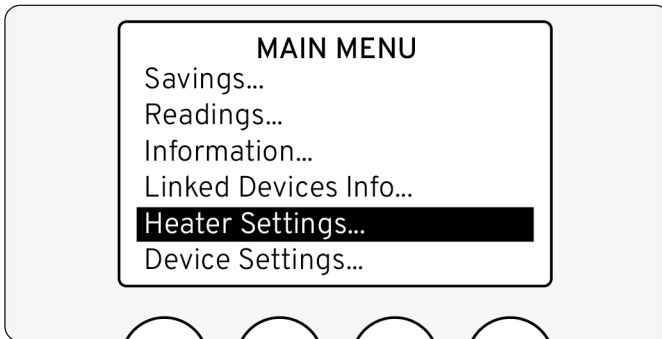**Save time and energy by setting up schedules for your heaters.**
Perfect for busy days when you need hot water or heating to be ready when you are.

Sparki's Tip: "Set schedules to match your routine. For example, boost water heating before your morning shower!"
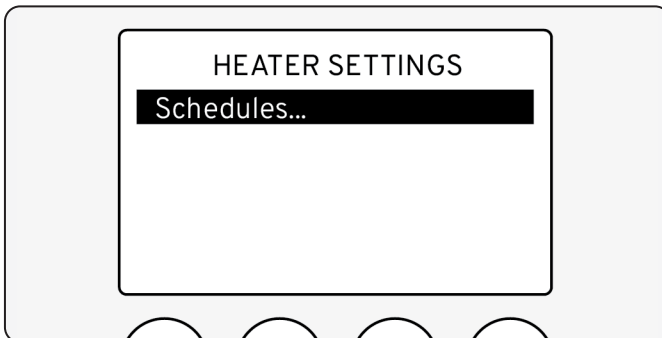
Steps to Set a Schedule:

1. **Press the Menu button** ☰ from the **main screen.**
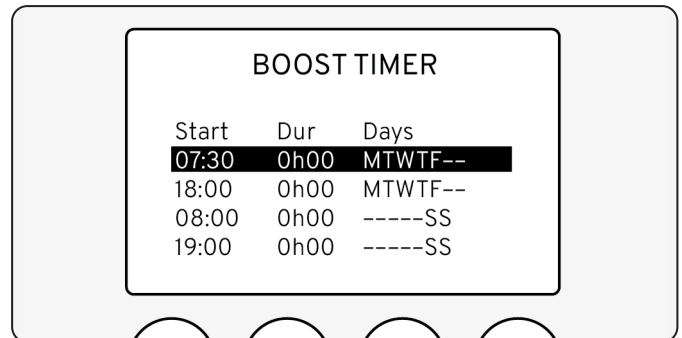   - Use the arrows to scroll down, then press (+) to select **"Heater Settings".**

```
        MAIN MENU
    Savings...
    Readings...
    Information...
    Linked Devices Info...
    Heater Settings...
    Device Settings...
```

2. Press the (+) Button to select **"Schedules"**.

```
      HEATER SETTINGS
    Schedules...
```

3. Pick the heater you'd like to schedule and press the (+) to select.

```
        SCHEDULES
    Heater...
```
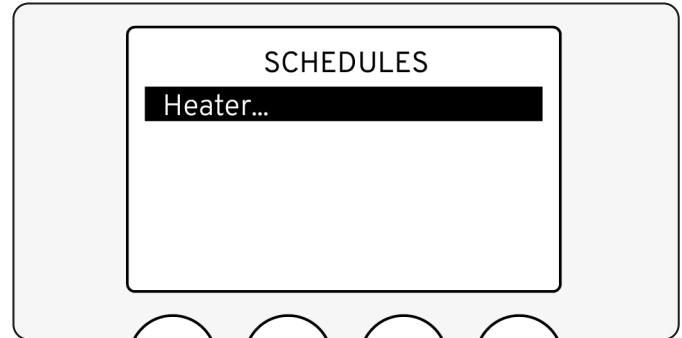
4. Use the arrows and press the (+) button to select the one of the 4 available time slots.
    - Use the arrows to adjust the start time, duration, and days of the week.
    - Press (+) to save each time slot.
    - Double-check your settings. eddi+ will now boost your heater automatically at the times you've chosen.

```
        BOOST TIMER

    Start    Dur    Days
    07:30    0h00   MTWTF--
    18:00    0h00   MTWTF--
    08:00    0h00   -----SS
    19:00    0h00   -----SS
```
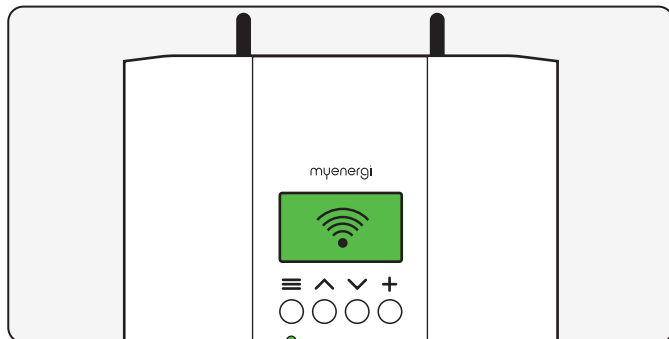
Example Schedule Setup:
    - *Slot 1:* 06:00 - 08:30 (Morning Hot Water)
    - *Slot 2:* 18:00 - 19:30 (Evening Hot Water Top Up)

Connecting eddi+ to the Internet

Connecting with WiFi

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., "myenergi12312341").

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".

Wi-Fi credentials can be deleted via the "Reset Wifi config menu:
Menu > Device Settings > Advanced > Reset Wifi config

Wi-Fi in myenergi devices are used to access online services, update firmware, app functionality and remote support tools.
This can be enabled/disabled in the following menu:
**Menu > Device Settings > Internet > Wifi > Configuration.**

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.

Legacy Pairing Comms

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.
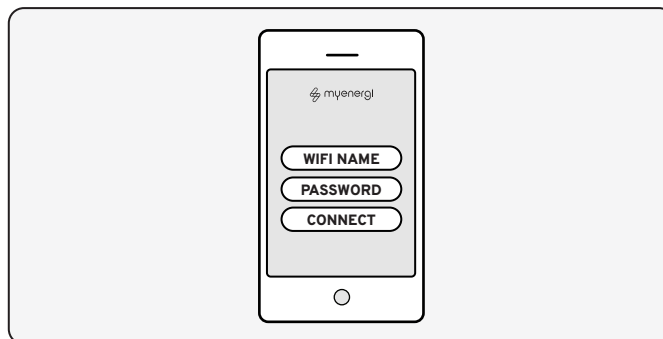

Connecting to myenergi App:

1. To fully unlock the features of your eddi+, download the myenergi app from the appropriate app store and register your device.
www.myenergi.com/getting-started

2. Once registered, the app will guide you through linking your eddi+ to your account. This will allow you to monitor and control your energy usage remotely.

Setting the Time and Date

The date and time on your eddi+ are important for schedules, syncing data and savings calculations. Follow these simple steps to ensure everything is set correctly:
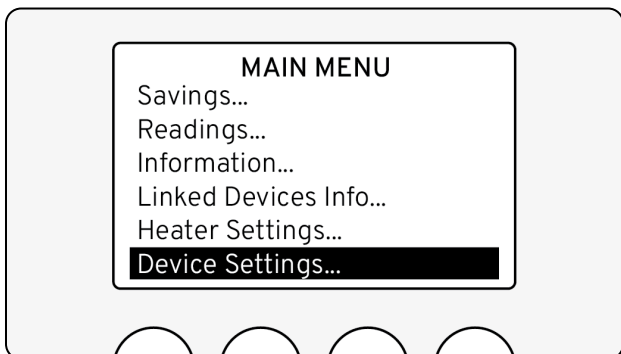
1. Open the Main Menu:
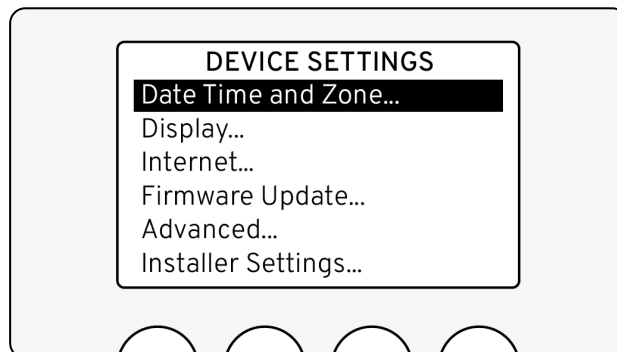- From the main screen, press the **Menu button** ☰.
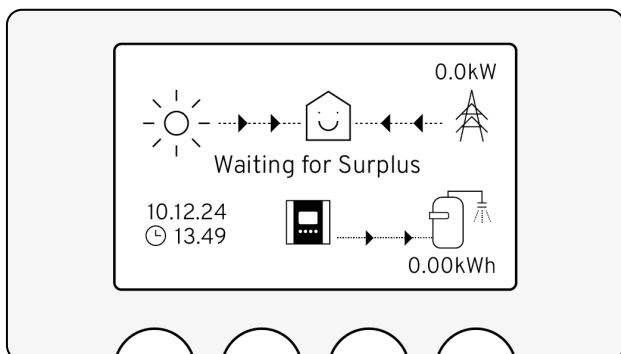
2. Navigate to Device Settings:
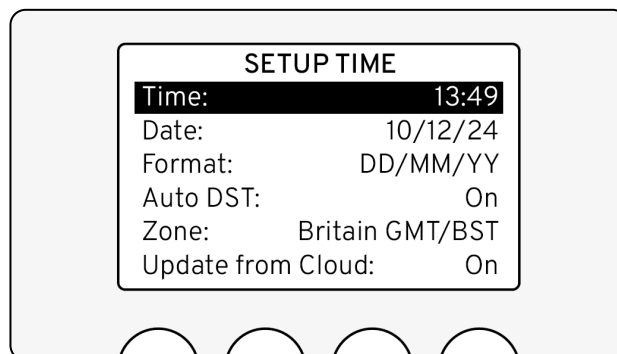- **Use the Down (↓)** button to highlight Device Settings and press (+) to select it.

MAIN MENU
Savings...
Readings...
Information...
Linked Devices Info...
Heater Settings...
Device Settings...

3. Choose Date, Time and Zone:
- **Scroll to Date, Time and Zone…** and press **(+)** to enter.

DEVICE SETTINGS
Date Time and Zone...
Display...
Internet...
Firmware Update...
Advanced...
Installer Settings...

4. Set Time and Date:
- **Use the Up (↑) and Down (↓)** buttons to adjust the following:
- **Time:** Set the current time (24-hour format).
- **Date:** Select the correct day, month, and year.
- **Format:** Choose between DD/MM/YY or MM/DD/YY.

SETUP TIME
Time: 13:49
Date: 10/12/24
Format: DD/MM/YY
Auto DST: On
Zone: Britain GMT/BST
Update from Cloud: On

5. Enable Auto DST (Daylight Savings Time):
- Ensure Auto DST is set to On to adjust for daylight savings automatically.
- Select Time Zone:
- Highlight Zone and select your location (e.g., Britain GMT/BST).
- Use Update from Cloud (Optional):If your eddi+ is connected to the internet, enable Update from Cloud for automatic updates.
- Save and Exit: Press (+) to confirm your settings.

Sparki says: "Your eddi+ is now up-to-date! If you have a power cut, don't worry—eddi+ will remember the time and date for a few days."

Troubleshooting

Fault Codes

	Message	Description	Solution
1	Output Overload	Load is drawing too much current	Check power rating of connected heater.
2	Overheat	Device is too hot	Check ventilation slots are not blocked and has sufficent space around it.
3	No Signal	Signal lost from harvi device	Contact Installer.
4	Grid Sensor Error	Grid sensor incorrectly installed	Contact installer.
5	Back Feed Voltage	Unexpected voltage at heater output	Contact installer.
6	Over Voltage	Supply voltage too high	Contact installer.
7	Under Voltage	Supply voltage too low	Contact installer.
8	Load is faulty	Load is faulty	Contact installer.
9	Unbalanced Heaters	Heater output is out of balance	Contact Installer

If issues persist contact your installer in the first instance, then visit the myenergi Help Centre if further assistance is required.

Help Centre

Scan the QR code or visit https://support.myenergi.com for further assistance

Product Warranty

For product warranty, scan QR code or visit www.myenergi.com/terms-and-conditions/myenergi-product-warranty/

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

Cable, Terminal and Equipment Inspection

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.
- Ensure the device has adequate ventilation and air vents are free of obstruction.
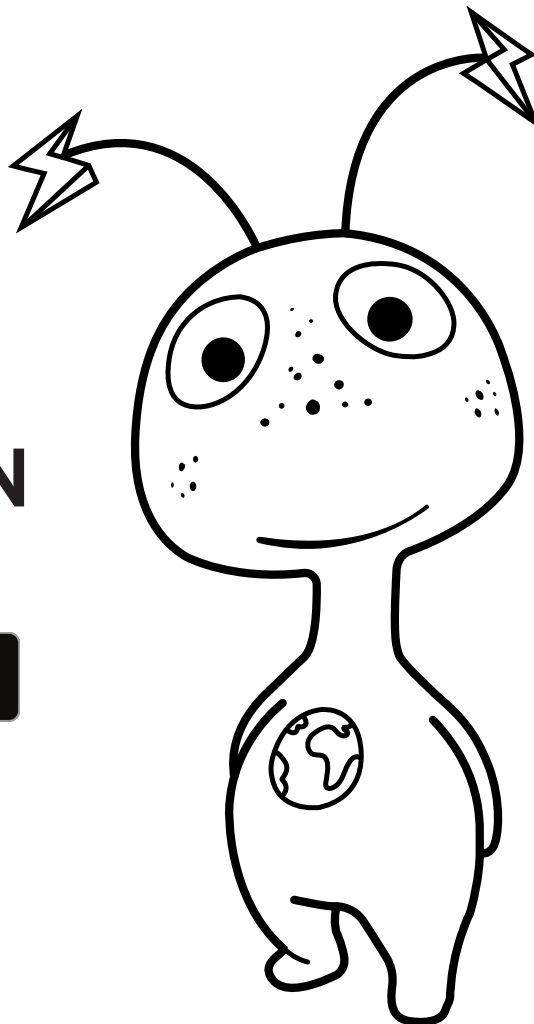
app INSTALLATION

VISIT APP STORE

Download on the App Store

VISIT GOOGLE PLAY

GET IT ON Google Play

Technical Specification

Electrical

Rated Supply Voltage (+/- 10%)	3x 230/400V (3-Ph)
Supply Frequency	50Hz
Rated Current	13A
Standby Power Consumption	4W
Resistive Load Size	150W min./9kW max.
Generator Size Supported[1]	No limit
Grid Current Sensor[2]	100A max. primary current 16mm max. cable diameter
Wireless Interface[3]	868/915MHz (proprietary protocol) for wireless sensor and remote monitoring options
WiFi Connectivity	2.4GHz 802.11BGN Connection up to 150 Mbps
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 - This is indicated in the table "LED Status" in the "display overview" section
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
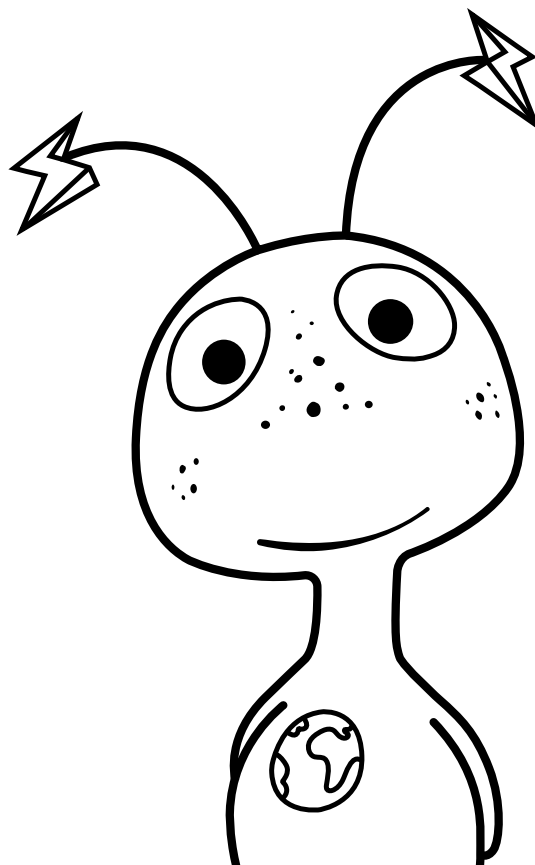
Model Code

EDDI-16A3P02H

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[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.

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