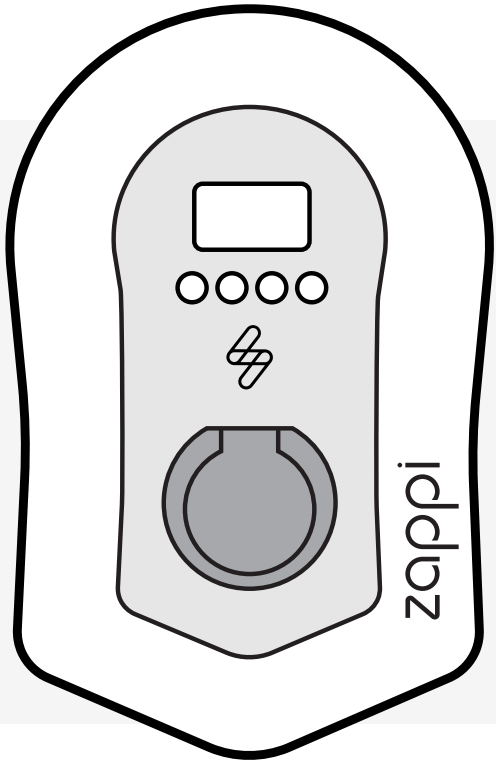
myenergi

zappi



ECO-smart EV charge point

User Operating Instructions

myenergi.com

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zappi

Content

Legal Notices

Introduction

Thank you for choosing zappi. zappi is an EV Charge Point. It can be used in conjunction with Solar PV to utilise surplus generation and prevent exporting it back to the grid. zappi has three charging modes; ECO, ECO+ and FAST. In FAST mode zappi will behave like any standard EV charger, taking power solely from the grid. ECO mode will use surplus generation but topping up with grid power, when needed. ECO+ will on charge only from surplus generation.

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Liability Limitation

myenergi do not accept any direct or indirect liability for product damage 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 were not in compliance with standards and regulations; fail to comply with the 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 these safety instructions. Failure to install and operate the unit in accordance with these instructions may cause inefficient operation, damage to the unit and invalidate the manufacturer's warranty, or result in injury or death. The device should only be operated in strict accordance with these instructions. Ensure this manual is retained for future reference and for any maintenance and reparation.

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

ATTENTION

This device has been manufactured in accordance with the state of the art and the recognised safety standards, however, incorrect operation or misuse may result in:

- Inefficient operation of the device.
- Damage to the device and other property.
- Injury or death to the operator or third parties
- Have knowledge and experience in dealing with electrical installations.

Any persons involved in commissioning, maintaining and servicing this device must:

- Be suitably qualified.
- Have knowledge and experience in dealing with electrical installations.
- Always disconnect the device from the supply before removing the cover.

- 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.
- Do not insert foreign objects into any part of the zappi or cable and connectors.
- Stop using the device if it is found to be defective, or if any part is cracked, broken or damaged.
- Never spray or submerge the zappi with water.
- The product 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.
- Do not install or operate the device in potentially explosive atmospheres or areas containing highly flammable materials or gases.
- Do not rest heavy objects on top of this device.
- Untethered devices should only use a dedicated charge cable fitted with Type 2 plugs, compliant to EN 62196-1 and EN 62196-2. Adaptors, conversion adapters and cord extension sets are not permitted.
- Only operate this device in an ambient temperature between -25°C to +40°C

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.

Wi-Fi credentials can be deleted via the "Reset Wifi config" menu: Menu > Other 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 > Other Settings > Internet > Wifi > Wifi Config

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 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.

Security Measures

Installer Device PIN
Condition: 7 incorrect attempts in 10 minutes
Result: Locked for 5 minutes

User Lock PIN
Condition: 7 incorrect attempts in 10 minutes
Result: Locked for 5 minutes

Wi-Fi AP Password
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.

Product Registration

First Time User Register for an Account

If this is your first myenergi device your installer will talk you through the following simple steps to get your account up and running.

Step 1: Download the myenergi app

1. Open the app and click “Register for an account”.
2. Enter an email address and create a password, when prompted.
3. Select your contact preferences, then click “next”.
4. Check the email you registered with for verification code.
5. Enter the code into the app, where requested and press “next”.

Step 2: Set your location and add your first device

1. In the app, click the green “+” symbol to add your first location.
2. When asked if you have a hub, select “no”, as this is your first device which already has a built-in virtual hub (vHub).
3. Enter the “Reg S/N” and “Reg Code”. These can be found in your zappi device menu Menu > Information > Page 2.
4. Once complete, your device will now display in your myenergi account and app.

Step 3: Customer Details

1. Visit myaccount.myenergi.com from a web browser.
2. Log in with the same credentials used to register for the app.
3. Click on “My Dashboard”.
4. In the section titled “Finish setting up your account”, click “Add account details”
5. Click “Edit personal info” and complete the form with the required information.
6. Click, “Submit”.

Congratulations!

You’re all set. You can now use the myenergi app and myaccount to monitor your energy consumption in real time, wherever you are in the world.

Existing User

Already have a myenergi device and registered account?

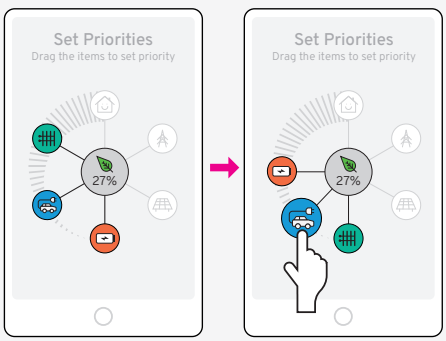
1. Your installer will pair your new device to your existing system.
2. You will see your new device is automatically added to your myenergi account and app.

Setting Priorities

If you have multiple myenergi devices you can control how energy is distributed to each of them in your app and it couldn’t be simpler. Using your finger, select the device you want to change the priority of and drag it into position. The higher up towards the house icon, the higher the priority for surplus energy. The lower down and further away from the house icon the lesser the priority for surplus energy.

See figure 5 below. Screen 1 shows eddi as the highest priority and libbi as the lowest priority. So, eddi will receive any surplus energy first, followed by zappi and lastly followed by libbi. Screen 2, eddi has been dragged to the bottom which means eddi is now the lowest priority to receive surplus energy. libbi has been moved to the ‘same’ priority as zappi.

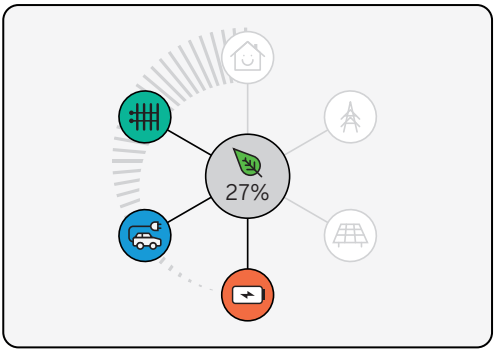
Figure 5



Priorities Explained

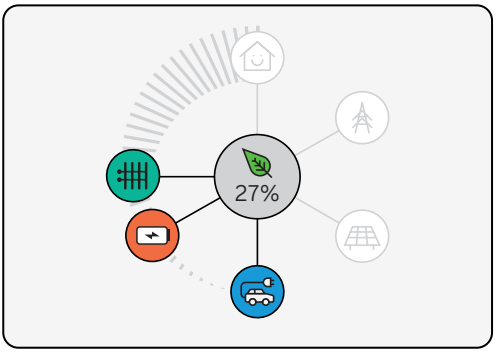
Example 1

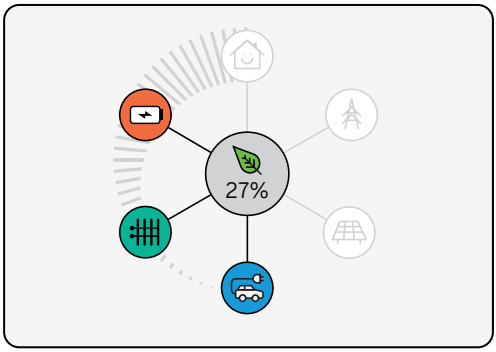
For surplus generation energy, eddi is the highest priority, followed by the zappi, then followed by the libbi. This means eddi will receive any surplus energy first before it is offered to the zappi and lastly it will be given to the libbi, providing eddi and zappi aren't in requirement of it. libbi is below both zappi and eddi meaning it can provide energy to both devices (depending on the preference you've selected either in your myenergi app or on the eddi/zappi device itself).



Example 2

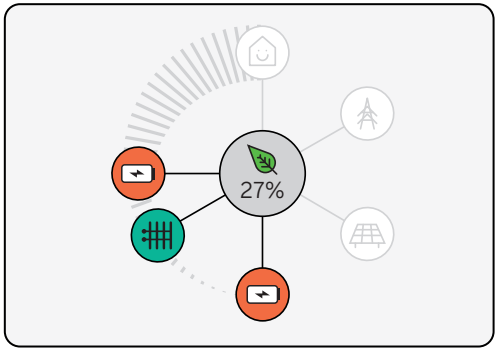
For surplus generation energy, eddi and libbi are of equal highest priority so they will receive any surplus energy, equally, first. Surplus energy will lastly be offered to zappi which is lowest priority. libbi will not provide energy to devices on the same or lower priority than it.





Example 3

For surplus generation energy, libbi is the highest priority, followed by the eddi, then followed by the zappi. This means libbi will receive any surplus energy first before it is offered to the eddi and lastly it will be offered to the zappi, providing eddi and libbi aren't in requirement of it. libbi is above both zappi and eddi meaning it cannot provide energy to either device. However, libbi can still provide energy to the home.

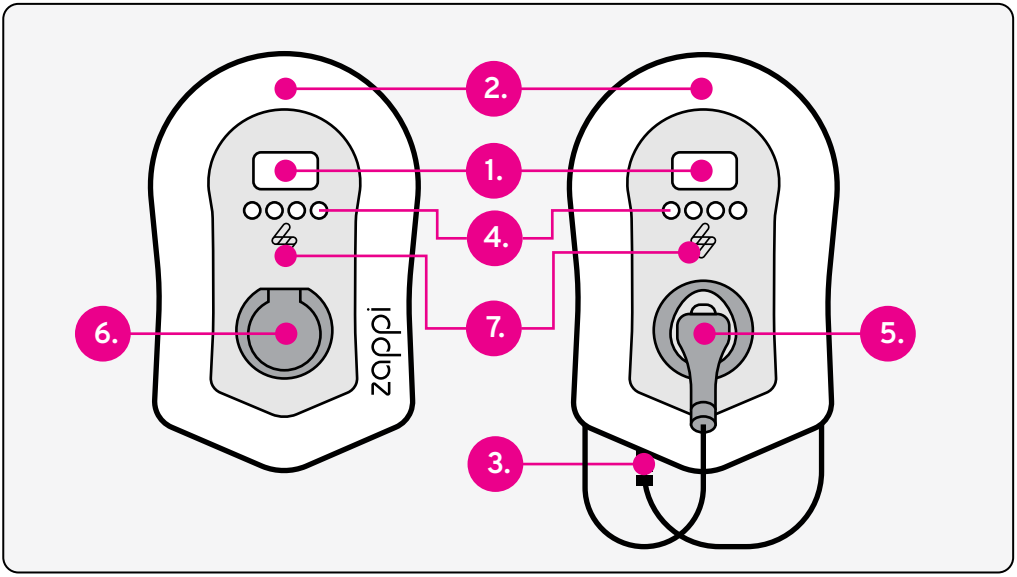


Example 4

This myenergi eco-system consists of two libbis and an eddi. We will refer to the highest libbi as libbi 1 and the lowest libbi as libbi 2, for this example. For surplus generation energy, libbi 1 is the highest priority, followed by the eddi, then followed by libbi 2. This means libbi 1 will receive any surplus energy first before it is offered to the eddi and lastly it will be given to the libbi 2, providing eddi and libbi 1 aren't in requirement of it. libbi 1 is above eddi, meaning it cannot provide energy to it but it can still provide energy to the home. libbi 2 is positioned below eddi, meaning libbi 2 can provide energy to eddi as well as to the home.

Operation

Controls & Indicators



1. Display	Graphical LCD display with LED backlight (Backlight can be activated by tapping the unit
2. Front Fascia	Can be removed for installation and servicing
3. Tethered Charging Cable (if applicable)	6.5m cable with Type 2 plug (Tethered version only)
4. Control Buttons	Four tactile buttons used to navigate the menus and alter settings:

Menu

Move Down Menu | Decrease volume

Move Up Menu | Increase volume

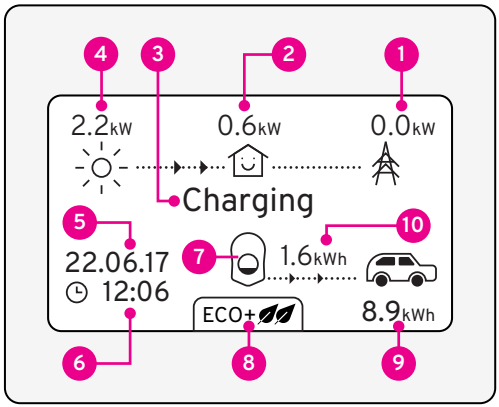
Select Item | Confirm Value

5. Integrated Cable Holster (If applicable)	When not in use, the charging cable should be wrapped around the unit and secured in the cable holster (Tethered version only)
6. Charging Connection Point (If applicable)	Socket for Type 2 charging cable (Untethered version only)
7. RGB Indicator	Visual indicator that changes colour dependant on zappis charging state

RGB Indicator Key

- **Pink** – Connected
- **Green** – Charging 100% green
- **White** – Charging from grid only
- **Yellow** – Charging mix of green and grid
- **Blue** – Charge complete
- **Red** – Error

Display



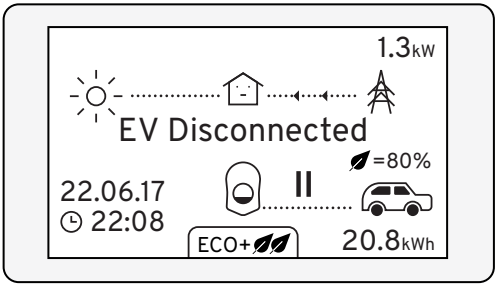
1.	**Import/ Export Power**	The power being either imported or exported from or to the grid (kW). The direction of the arrows indicates if the property is currently importing power (left) or exporting power (right). The size of the arrows is proportionate to the level of power being imported / exported, When the property is neither importing or exporting power the figure will be 0.0kW and there will no animated arrows. The property is then said to be 'in balance'.
2.	**House Load Power**	The power that the property is currently using in kW.
3.	**Status**	The current status is displayed here.
4.	**Generation Power**	The power being generated at this time in kW.
5.	**Date**	Current Date
6.	**Time**	Current Time
7.	**zappi icon**	If you see wavy lines above the zappi icon, the unit is thermally limiting. The output power is temporarily reduced.
8.	**Charge Mode**	Shows the selected Charging Mode; FAST, ECO or ECO+
9.	**Charge Imported to EV**	The accumulated charge energy that has been sent to EV in this charge session.
10.	**Current Charging Power**	When the EV is charging, arrows will show here along with the charging power in kW.

Status Screens

EV Disconnected

The EV is not connected to zappi.

In this example the last charging session delivered 20.8kWh of energy to the EV and 80% of that energy came from the solar panels.

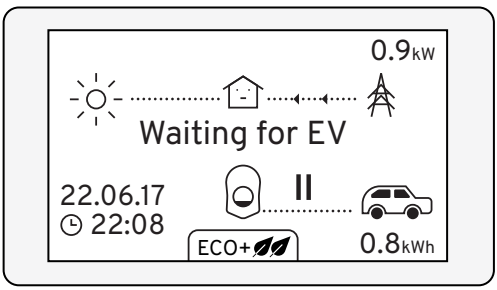


Waiting for Surplus

zappi is waiting for sufficient surplus power from the microgeneration system. This screen will be shown in ECO+ mode as it is only in this mode that charging will stop if there is not enough surplus power.
The house in the centre is straight-faced as grid electricity is being used by the house (0.9kW in the example shown).

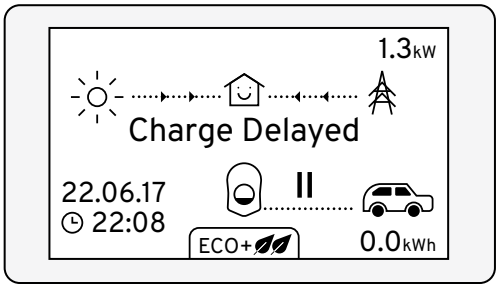
Waiting for EV

zappi is waiting for the EV to respond; the EV is not ready to accept charge.



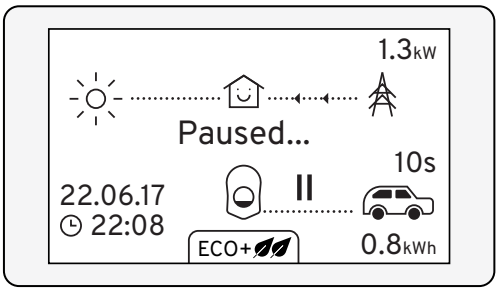
Charge Delayed

The charging session has been delayed by the EV because a scheduled charge has been set in the vehicle.



Paused

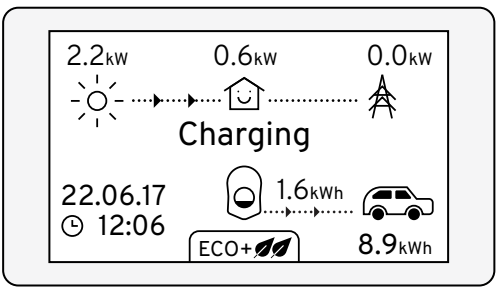
zappi is paused for a few seconds in order to limit the start/stop frequency during ECO+ mode charging.



Charging

The EV is charging.

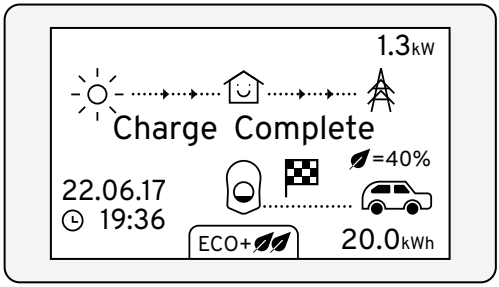
In this example the car is charging in ECO+ mode at 1.6kW, there is no import or export from the grid (0.0kW) and the EV battery has charged by 8.9kWh since the car started.



Charge Complete

The EV is fully charged.

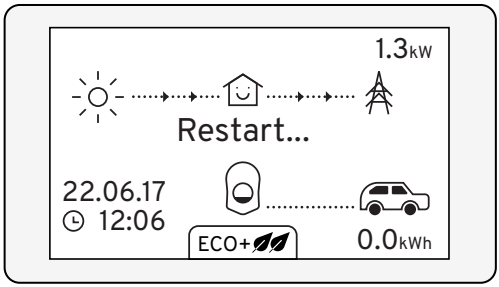
The charge energy used during the last charge is displayed at the bottom right (20.0kWh in this case) and the 'green contribution' is also shown (40% in this example).



Restart

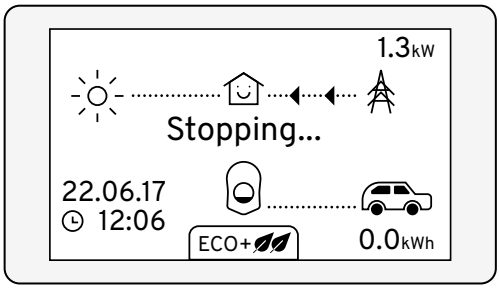
zappi is performing a restart sequence.

This may happen with some EVs that need to be 'woken-up' to start charging after a pause in the charge. Charge should start immediately afterwards, otherwise the "Charge Delayed" message will appear.



Stopping

zappi is about to stop the EV charging.



Charging Modes

zappi has three charging modes;
FAST, ECO and ECO+, which can be selected by pressing the up and down arrow buttons when the main screen is showing. The charge mode can be changed before or during a charge.

FAST ▶▶

Charges at the fastest rate
Fast Mode will charge the EV at the fastest rate and will import grid electricity, if there is insufficient surplus generated power. The actual charge rate is dependent on the EV's onboard charger and the grid supply voltage. Some vehicles can charge at 11kW or 22kW on a 3-Phase zappi, but many EV's have lower charge rates. The maximum charge rate for the single phase zappi is 7kW.

ECO

Adjusts the charge rate to limit the use of grid electricity
The charge rate is continuously adjusted, in response to changes in generation or power consumption elsewhere in the home, thereby minimising the use of grid power. Charging will continue until the vehicle is fully charged, using available surplus power. If at any time, the available surplus power falls below 1.4kW, the shortfall will be drawn from the grid.

Note: *The EV charging standard does not support below 1.4kW.*

ECO+

Adjusts the charge rate to limit the use of grid electricity and will pause the charge if there is too much or any grid electricity being used (set-up dependant).

The charge rate is continuously adjusted, in response to changes in generation or power consumption elsewhere in the home, thereby minimising the use of grid power. Charging will pause if there is too much imported power, continuing only when there is enough surplus power available. The surplus power threshold at which the charge will start or stop can be set using Min Green Level in the ECO+ Settings of the Charge Settings menu. It is possible to charge the EV using only surplus renewable power, if there is sufficient surplus power available and a boost option has not been set.

Note: *The EV charging standard does not support charging below 1.4kW. Example: when zappi is set to a Min Green Level of 100% you will need in excess of around 1.4kW of surplus energy available to start the charge. If the surplus falls below the 1.4kW threshold the charge will pause until the threshold is once again met. If preferable, you can set the zappi to share power from the grid and a generation source to ensure a charge is always maintained. For example, the Min Green Level could be set to 75%. A charge will then start when there is a surplus of 1.05kW, taking a further 0.35kW from the grid. It is worth noting that this is only required to start a charge. If a higher amount of surplus becomes available it will be consumed, resulting in less being drawn from the grid.*

Boost

Manual Boost

The Manual Boost function can only be used when charging in ECO or ECO+ mode. When boosting, the charge rate is set to maximum (just like FAST mode), until a set amount of energy has been stored in the EV's battery. After which, zappi will revert to ECO or ECO+ mode.

This function is useful if you arrive home with an almost flat battery and would like to charge the vehicle immediately to ensure there is enough charge for a short trip if needed. The amount of energy delivered to the EV during the boost charge can be changed in the Charge Settings/Boost menu.

Activating Manual Boost

Press the + button until "Boost" is shown.

The boost will start after a few seconds and the display will show the remaining boost energy.

The boost duration can be altered in Charge Settings/ Manual Boost menu option.

Cancelling Manual Boost

- Press the + button until "Cancel Boost" is shown.

Smart Boost

The Smart Boost function will charge the EV with a minimum kWh figure by a set time. Smart Boost is available only in ECO and ECO+ modes.
The Smart Boost function does not bring the battery to a certain state of charge. The target kWh is only the energy added during the charging session.

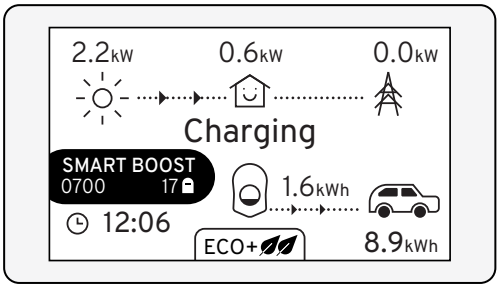
Example: It's a sunny day and you wish to ensure there is enough charge in the EV to get to work in the morning (e.g. 15kWh), but in the meantime, you want to use the surplus energy from the PV system to charge the car, so you choose to use ECO+ mode. At

sunset there was only 10kWh of charge accumulated. However, because you activated Smart Boost, and set the time you needed to leave for work, zappi automatically boosted the charge in the night to top up the battery to the required 15kWh by 7am.

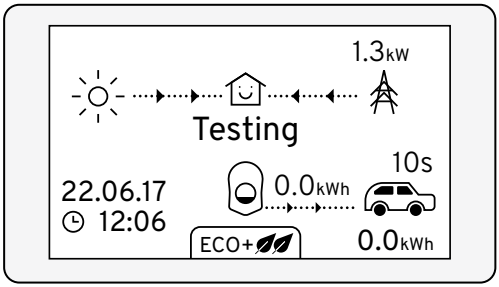
Activating Smart Boost

1. Press the + button until "Smart Boost" is shown

The set target time and energy amount are what you have previously entered within the settings. See, "3.6.3 Programming Smart Boost Values" for further information.



zappi will then test the EV for a few seconds to determine the maximum charge rate.



The boost will start at the latest possible time to achieve the set energy amount, if the current charge session has already accumulated enough energy, the boost will not be required and so will not operate.

Cancelling Smart Boost

1. Press the + button until "Cancel Boost" is shown.

Programming Smart Boost Values

1. Enter the main menu.
2. Select "Smart Boost" from within the "Charge Settings" menu.
3. Edit the target time and amount of required charge (kWh) using the up and down arrow buttons.
4. Use the + button to move to the next value.

Boost Timer

When using ECO or ECO+ charge modes, zappi can be programmed to 'boost' the current charge at certain times. When boosting, the charge rate is set to maximum (just like FAST mode), regardless of the amount of available surplus power. This means that power may be drawn from the mains grid supply during boost times.

- There are four editable time slots which can be set to operate for certain days of the week.
- Setting the duration to 0h00 will make the boost inactive.

Programming Boost Times

1. Enter the main menu
2. Select "Boost Timer" from within the "Charge Settings" menu.
3. Using the up and down arrow buttons edit the start time(s) and duration(s)

Note: *Use the + button to confirm selection and to move across the screen to the next input.*

Lock Function

zappi can be locked from unauthorised operation. The Lock Function requires a PIN number to be entered before the unit can be operated and/or a charge is allowed. The main display can also be hidden when zappi is locked.

Multiple PINs can assigned be to different users in the myenergi myaccount (up to 4 users in total) as well as being able to set one 'master' PIN in the device menu itself.

Setting Master PIN (Device Menu)

1. Go to "Other Settings" and "Lock Function"
2. Select which criteria you wish the lock to apply to.

EV Plugged	The Lock Function is active when the EV is plugged in, preventing tampering with the charge session, or changing any settings
EV Unplugged	The Lock Function is active when the EV is disconnected, preventing unauthorised charging.

If **EV Plugged** and **EV Unplugged** are both set, then the PIN lock is always active. zappi is effectively locked against any unauthorised use and the PIN code will always be required to make any changes locally or to start a charge.
These are the recommended settings if zappi is mounted in an exposed / publicly accessible location and you do not want anyone else to be able to use it.

Timeout	The time before the Lock Function automatically reactivates after being unlocked.
Lock Code	Set a 5 digit lock code. Default code is: 44444.
Auto Hide	If set, this will hide the main display of the zappi to keep the power readings private.
Charge	Allow a charge session without the need to enter a pin-code. Useful to leave zappi access free but with the settings protected.
Test	Tests the socket lock solenoid when the charging cable is not plugged in.

Setting PIN(s) and Assigning Users (myaccount)

Multiple PINs (up to 4 different users) can be assigned to the zappi. This means that charging information for each user can be seen separately.
User does not necessarily mean 'people', you could use this function to see usage between personal and business miles, if you have a company car that you use for personal use.

To set and assign PINs in the myenergi myaccount, follow the steps below:

1. Visit myenergi myaccount: myaccount.myenergi.com
2. Sign in or create an account.
3. Navigate to the "Location" tab, then click "Access Management".
4. Click "Add PIN Code".
5. Enter a name to identify the user by
6. Choose a 5 digit PIN code for the user (using digits between 1-4) and enter it
7. Select whether this user is business or personal use.
8. Set the default charging mode for this user from the drop down menu; FAST, ECO or ECO+
9. Once completed, click "Add PIN".

Socket Lock

For untethered units only, the EV cable will be locked automatically when it is inserted into the zappi, even if it is not plugged into the EV. A small 'lock' icon will be seen on the right side of the zappi, in the centre of the screen. When the EV is disconnected, a press of the button, will unlock the cable for a duration of 5 seconds, allowing the cable to be removed from zappi. After this time, the lock will be re-activated.

If the 'Lock Function' (PIN lock) feature is enabled in the zappi, the cable will not be locked into the socket until the PIN is entered and EV charging starts. This means that if anyone plugs their cable into the zappi but they do not know the PIN they are able to remove their cable. In all cases the cable is unlocked if zappi detects a fault or the power supply to the zappi is switched off.

Troubleshooting

Symptom	Cause	Solution
Blank Display	No power to the device	Contact Installer
In ECO+ mode, the charge does not start, the display is showing "Waiting for Surplus" and export power is 0W	Grid sensor incorrectly installed or faulty or no signal from harvi (if used)	Contact Installer
In ECO+ mode, the charge does not start, the display is showing "Waiting for Surplus" BUT export power is showing correctly.	Export Margin is set too high	Contact Installer
Generation Power is always 0W	Generation CT not installed	If you would like a generation CT installed, contact your installer
"Installation Limit" displayed. Display will show the overloaded phase(s) and the prospective current that would be drawn if zappi were allowed to start charge at the minimum rate.	The measured grid current is greater than the limit set in the zappi	Reduce the load in the property by turning off an unused appliance. If issue persists, contact installer.
"Installation Limit CT" displayed	The grid CT has become disconnected or is not clamped correctly around the grid supply cable	Contact Installer

Fault Codes

Message	Cause	Action
Unknown Cable	zappi has detected an unknown EV cable (untethered units only) Make sure you are using genuine IEC 62196-2 compliant plugs. Range supported: 32A, 20A and 13A.	zappi will automatically retest the cable after 5 seconds. If the issue persists, unplug the cable check for dirt in the plug and try again.
Pilot Problem	zappi has detected an issue with the "Control Pilot" signal on the cable between the zappi and the EV.	zappi will automatically retest the cable after 5 seconds. If the issue persists unplug the cable, check for dirt in the plug and try again.
Lock Failure Fault Code 23	The socket lock actuator couldn't lock/ unlock the inserted plug as expected (untethered units only).	This message can happen when the plug is not fully inserted or if it is twisted or pulled from the socket. Push the plug fully into the zappi to release the plug, then press and hold the "enter menu" button to reset the unit.
Output Fault Fault Code 24	zappi has detected a wrong output voltage. e.g. a voltage has been detected when it should be off.	Unplug the EV, press and hold the "Enter Menu" button to reset the unit.

PE Fault Fault code 25	Detected a problem with the main earth connection. The earth is either disconnected or the impedance of the earth connection is too high.	Contact Installer.
Comms Fault Fault code 26	Detected an issue with built-in protection components.	Unplug EV, press and hold the "Enter Menu" button to reset the unit.
Contactor Fault Fault code 28	Relay inside zappi has a welded contact. The secondary relay is open to make sure that the supply to the EV is isolated.	Unplug EV, press and hold the "Enter Menu" button to reset the unit.
PEN Fault Fault code 29 (Excluding T Variant)	The internal protection against the loss of the PEN conductor on the electricity supply has tripped	Unplug the EV, make sure that the fault has been removed and hold the "Enter Menu" button to reset the unit.
Overload Fault code 30	The EV is drawing too much current – the output is switched off.	Unplug EV, press and hold the "Enter Menu" button to reset the unit.
Bad Voltage Range / Over Voltage / Under Voltage Fault code 31	Detected that the supply voltage is too high/ low and has disconnected the EV to protect it.	Unplug the EV, make sure that the fault has been removed and hold the "Enter Menu" button to reset the unit.
Overheating	zappi unit is too hot – the output is switched off.	Make sure that zappi is properly ventilated (e.g. has not been covered). Charge will resume once the unit has cooled down again.
Voltage Mismatch Fault code 32	The output voltage detected by zappi and the built-in protection components are not the same.	Unplug the EV, press and hold the "Enter Menu" button to reset the unit.
Charge Blocked	zappi has detected that the EV has repeatedly tried to start a charge even though the EV has previously reached "Charge Complete"	Unplug the EV Charging will continue when the EV is plugged in again

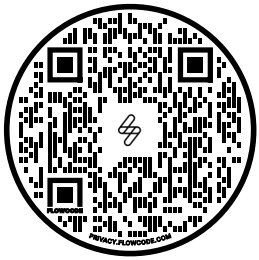
If any faults persist, then stop using zappi and contact your installer in the first instance. If you require further support visit the myenergi Help Centre.

Help Centre

Scan the below QR code for further assistance or visit *support.myenergi.com/hc/en-gb*

Warranty

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



Specification

Performance

Mounting Location:	Indoor or Outdoor (Permanent Mounting)
Charging:	Mode 3
Display:	Graphical Backlit LCD
Front:	LED Multicolour (According to Charge Status and Current)
Charging Current:	6A to 32A (Variable)
Dynamic Load Balancing:	Optional Setting to Limit Current Drawn from the Unit Supply or the Grid
Connector Type:	Type 2 Tethered Cable (6.5m) or Type 2 Socket with Locking System
Charging Profile:	3 Charging Modes; ECO, ECO+ and, FAST
Metering Accuracy:	Load and External CTs, Designed to meet Class B (1%) of EN 50470 Load: 0.25A-5(32)A External CTs:0.25A-5(100)A
eSense:	In Addition to the Wide Range of Voltages below the eSense Input can also work with a Volt Free Contact Range: 3.3-230Vrms Volt Free Contact (24V DC, Supplied from the zappi)

Electrical

Rated Power:	7kW (Single-Phase) or 22kW (3-Phase)
Rated Supply Voltage:	230V AC
Supply Frequency:	50Hz
Rated Current:	32A max.
Standby Power Consumption:	3W
Integral Protection:	Tripping time in accordance with EN 62955
Wireless Interface:	868/915MHz (Proprietary Protocol) for Wireless Sensor and Remote Monitoring Options
WiFi Connectivity:	2.4GHz 802.11BGN Connection up to 150 Mbps
Communication Protocol:	OCPP 1.6J (Via Cloud)
Grid Current Sensor:	100A max. Primary Current, 16mm max. Cable Diameter
Supply Cable Entry:	Rear or Bottom

Mechanical

Enclosure Dimensions:	438 x 282 x 122mm
Protection Degree:	IP65 (Weatherproof)
Enclosure Material:	PC / ASA (Batch Dependant)
Operating Temperature:	-25°C to +40°C (Out of direct sunlight)
Impact Resistant:	IK10

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