
Libra
ENERGY
Libra Energy
2023, 17 april
Zaptec

Agenda

1. Charging methods and saftey
2. Zaptec Go
3. Zaptec Pro and system charging
4. Zaptec App and Portal

We change our world with cutting-edge charging solutions

Leading provider of charging solutions

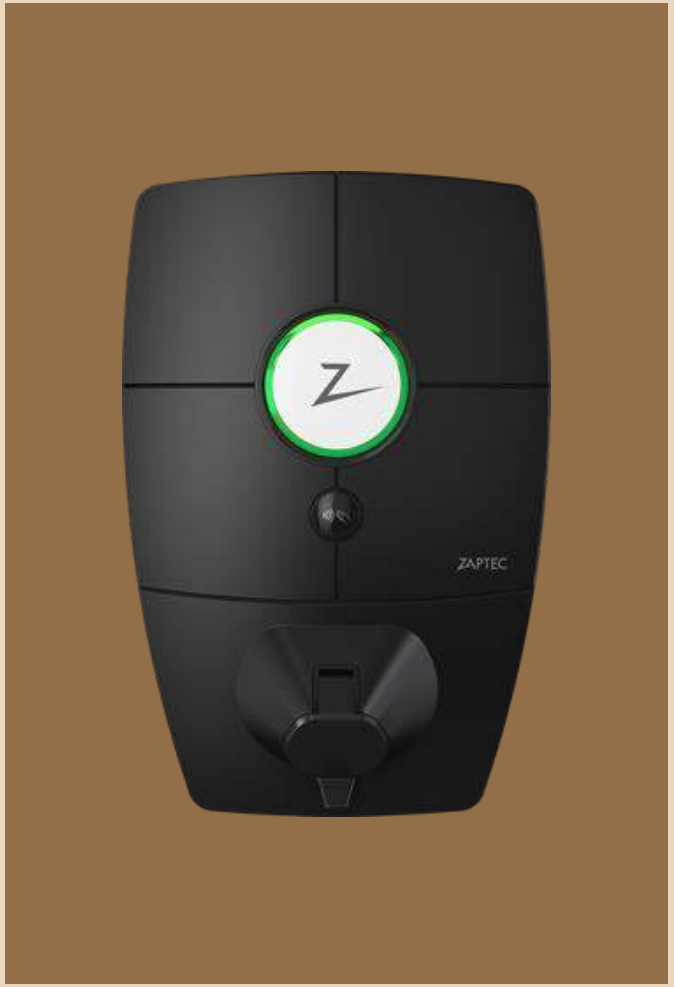
Zaptec Pro

Zaptec Go

Zaptec Portal

Zaptec App

Zaptec Sense



EV Charging

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Standard and Saftey

- **Approved security**
- **Reliable and futureproof**
- **5- year warranty**

Certified products, IEC 61851-1, EVSE mode 3

Certified RCD Type B, IEC 60423 (Pro)

Certified RDC-DD, IEC 62955 (Go)

IEC 60529: *IP54*

IEC 62262: (IK code) *IK10*

IEC 60695-1-10: Fire hazard testing

IEC 61851-1, EVSE mode 3

NEK EN 61851-22 Charging system for evs

IEC 62196-2. Plugs, socket-outlets and vehicle connectors

Home Charging

Zaptec Go

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An enlightening idea

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Zaptec Go

- A super small 22 kW smart charger!
- Enlightened Type 2-kontakt
- Always online- WiFi and LTE-M
- Eco Mode
- RFID
- Integration with 3- party

Zaptec Go Product sheet

Down to the details

W:180mm

D:75mm

H:242mm

Go is an alternating current
rging station in accordance
61851-1, EVSE Mode 3.

ions (mm)
W: 180 x D: 75

ion circuit
A fuse on installation circuit
ging stations.

ion network, Voltages
nd TT
± 10%
± 10%

rrent and charging output
32A/3-phase (TN networks)
t 32A/3-phase (IT networks)
32A/1-phase IT/TN

ging socket
IEC 62196-2 Type 2 Female
Electronic lock, can be permanently locked by user

Earth fault protection
RDC-DD 6mA according to IEC 62955.
Electronic, automatic reset by replugging Type 2 cable

Energy metering
Integrated 3-phase energy meter
~1% accuracy on readings

HMI, Identification and configuration
Bluetooth Low Energy (BLE 4.1)
RFID/NFC reader – Mifare Classic, Type A
RGBW LED circle for device status
1,2W power usage at standby

Standards and approvals
CE compliance in accordance with IEC 61851-1:2017 and IEC 62955, and the Radio Equipment Directive 2014/53/EU and ROHS Directive 2011/65/EU.

Temperature range
-30°C to +40°C

Degree of protection
IP54, indoor and outdoor use
IK8 impact protection
UL94 5VB flammability rating
UV resistant

Electrical protection
Protection class II (4kV AC and 6kV impulse, insulation)
Overvoltage category III (4kV)

Software interfaces available
Zaptec App
Zaptec Go+ subscription service
Zaptec API available (limitations apply to Go installations)
OCPP 1.6J box level – available Q3 2021.

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One size. Six colors

reddot winner 2022

Uncompromised Security

- Certified with the highest safety standards - TÜV SÜD
- IP54 certified for water and dust
- Earth fault RDC -DD 6mA

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Built-in
leveler

Touch and waterproof enclosure

Type 2- contact

Quality contact from known
Phoenix Contact

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Super easy installation

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Installation

- Requires double pole Type A RCD and overcurrent protection
- Supports 1 and 3- phase charging on IT grid
- Use cables with or without cable clamps
- In-app configuration

Multi installation

- Max three chargers per installation
- Requires double pole Type A RCD and overcurrent protection
- In-app configuration
- Load balancing in cloud

System Charging

Zaptec Pro

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Product specification

	Pro	Go
Compatible with all electriv vehicles (22kW)	✓	✓
International standard, type 2 socket	✓	✓
RCD type B with automatic reset	✓	No
RCD -DD 6mA	No	✓
eMeter	✓	✓
Bluetooth and RFID	✓	✓
IP54 & Ik10	✓	✓
Phase balancing	✓	No
3x 40A fuse	✓	No
Communication	WiFi / PLC / 4G	WiFi / 4G
Authentication	✓	✓

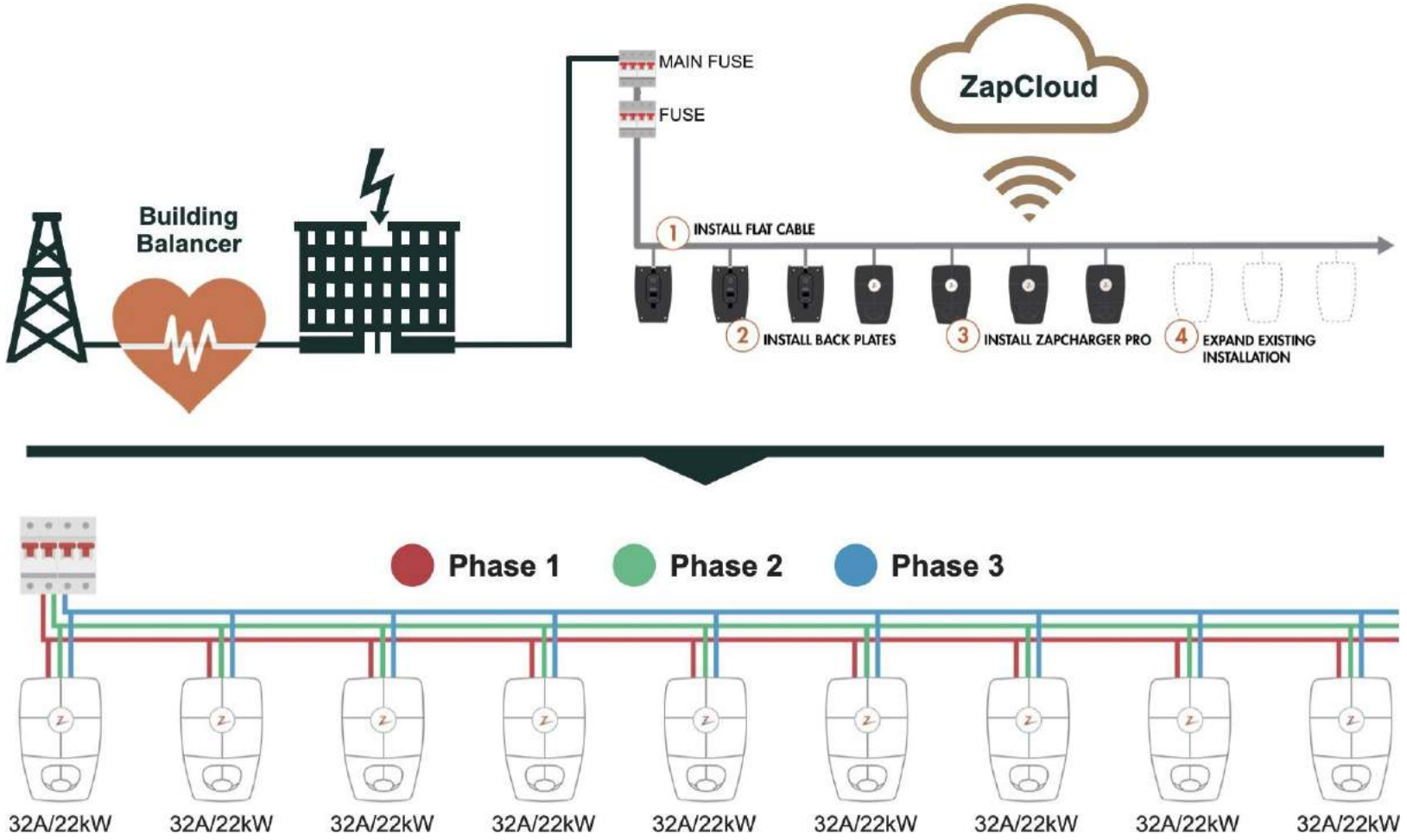
Zaptecs technology

- Safer charging at higher speeds and at lower “all-in” costs

Each station gets up to
22kW

66%
lower installation cost

Significant increase in number of chargers for a given power intake



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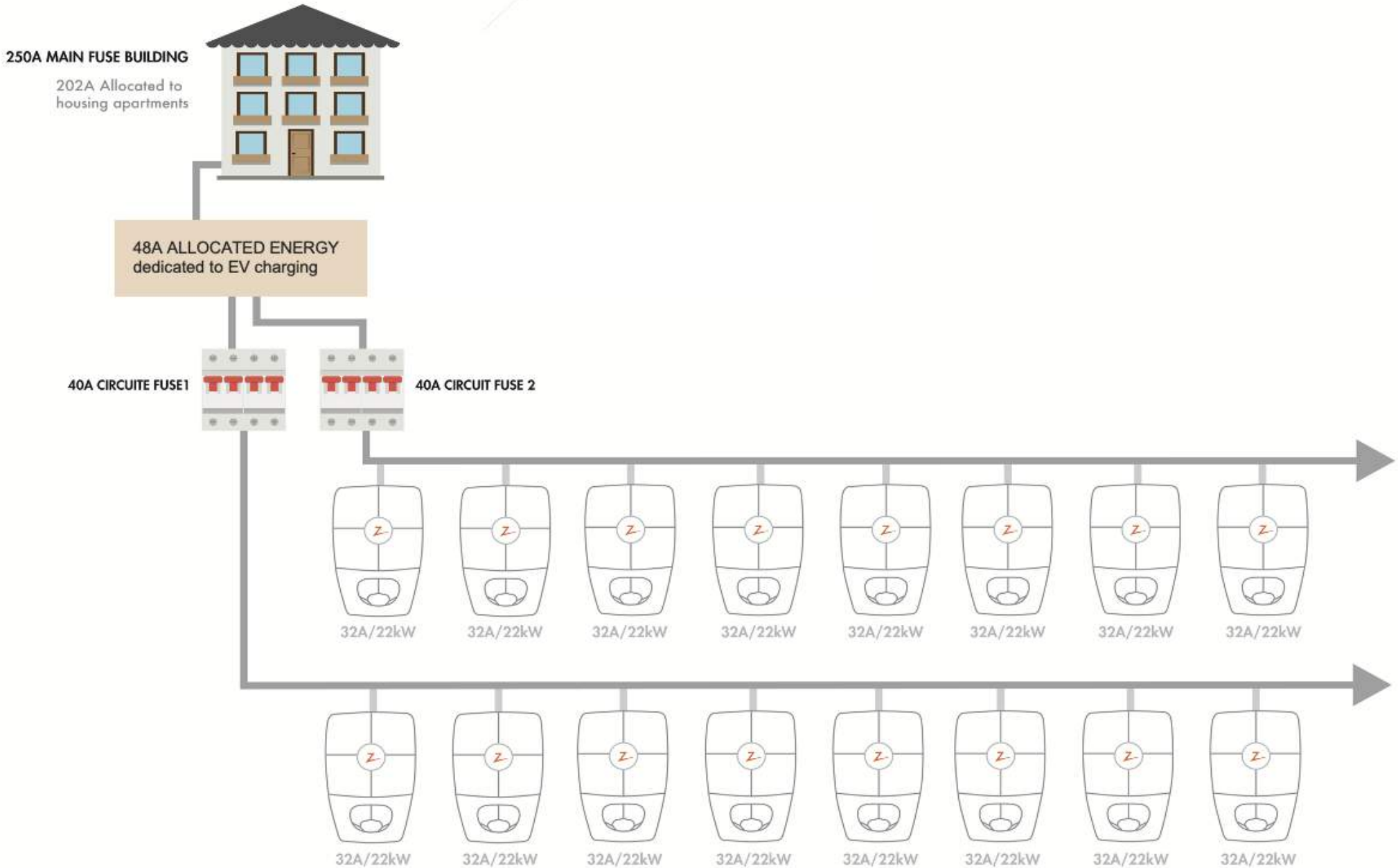
250A MAIN FUSE BUILDING
202A Allocated to housing apartments
48A ALLOCATED ENERGY dedicated to EV charging
40A CIRCUITE FUSE1
40A CIRCUIT FUSE 2
32A/22kW
32A/22kW
32A/22kW
32A/22kW
32A/22kW
32A/22kW
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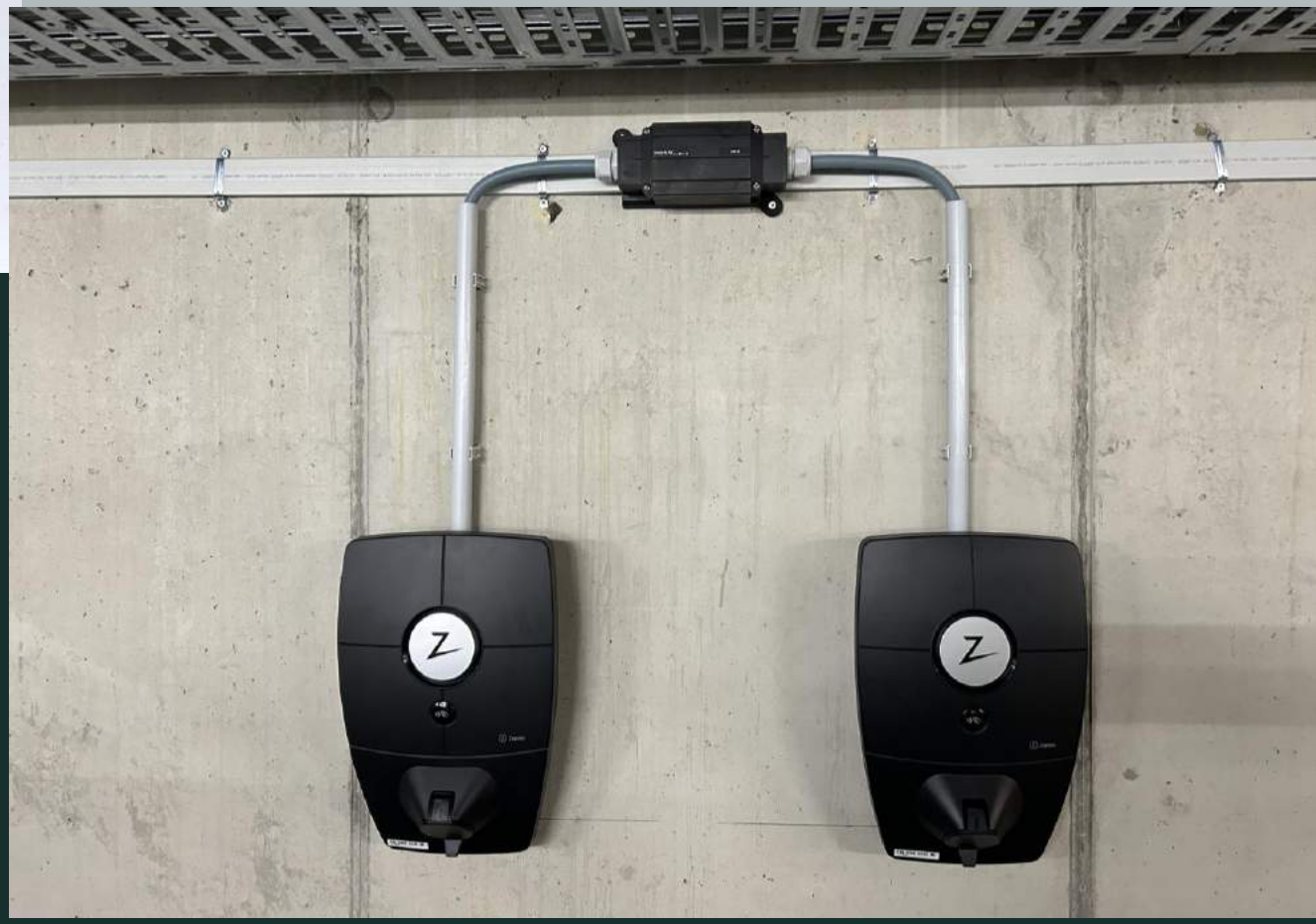
Installation with
round cable ↑

Installation with
flat cable ↓



Charging columns

Placement of charging stations (Mount in ceiling, wall or with column)

ONEPOLE 2

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Capacity

Dynamic load -and phase balancing

Capacity

400V TN

- Distributes the load evenly across all phases.
- Prevents uneven load distribution of the load and provides optimal utilization of the network's capacity

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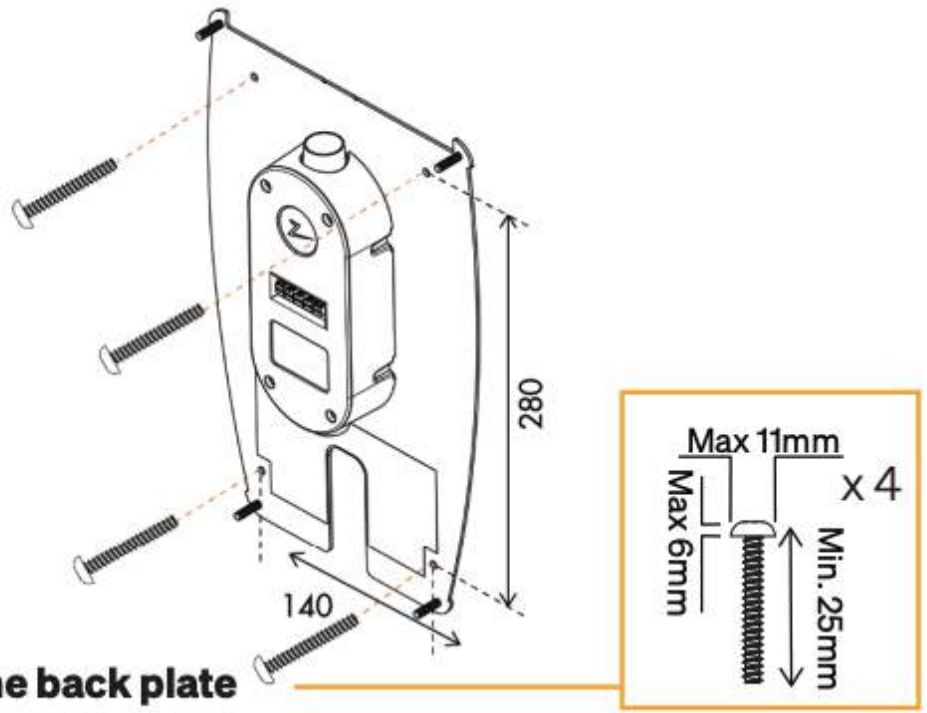
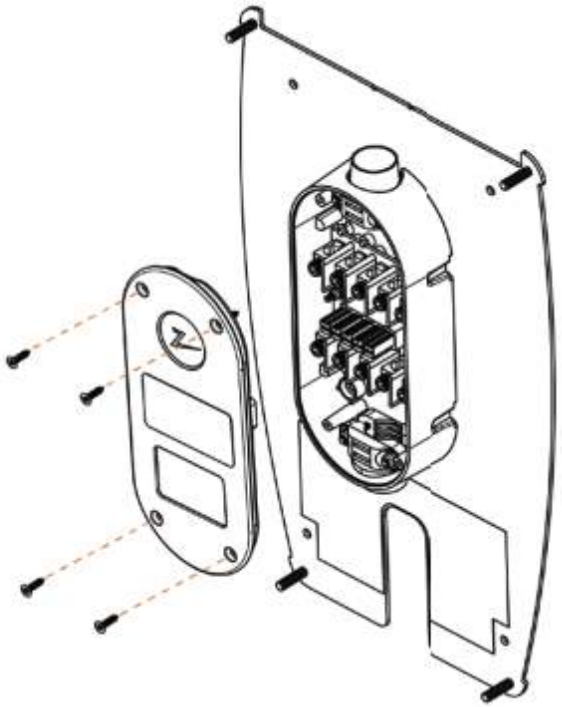
Mounting of backplate



1

Mount the back plate

If the wall structure requires plugs/drilling, you must ensure that dust and dirt do not get into the junction box.
Screw requirement: Head max 12mm diameter,
Head max height 6mm, length min 25mm.

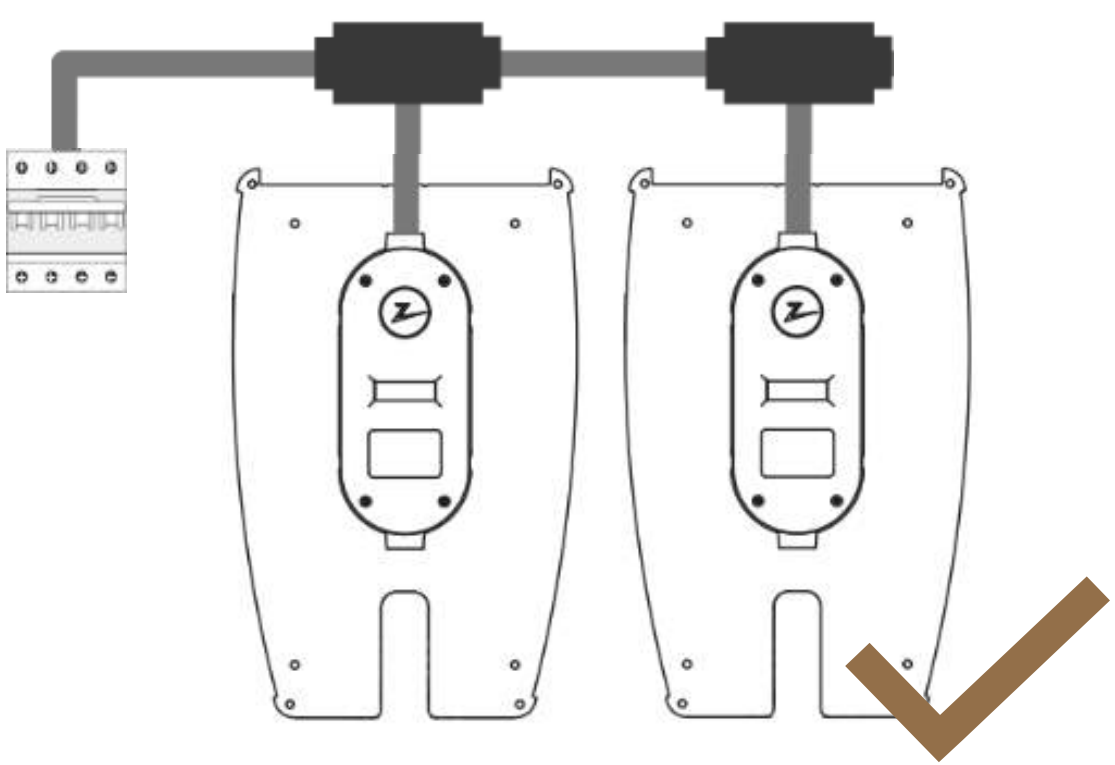


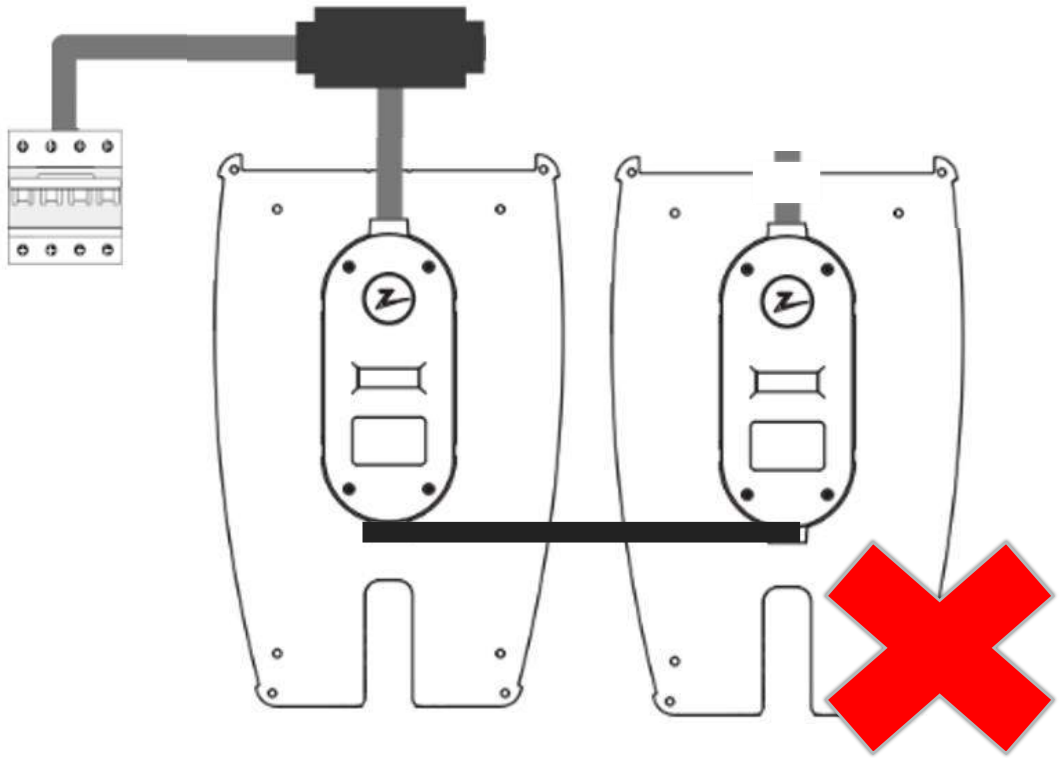
2

Remove the cover on the junction box

Undo four screws and open the cover to access the junction box.

Electrical wiring and connection

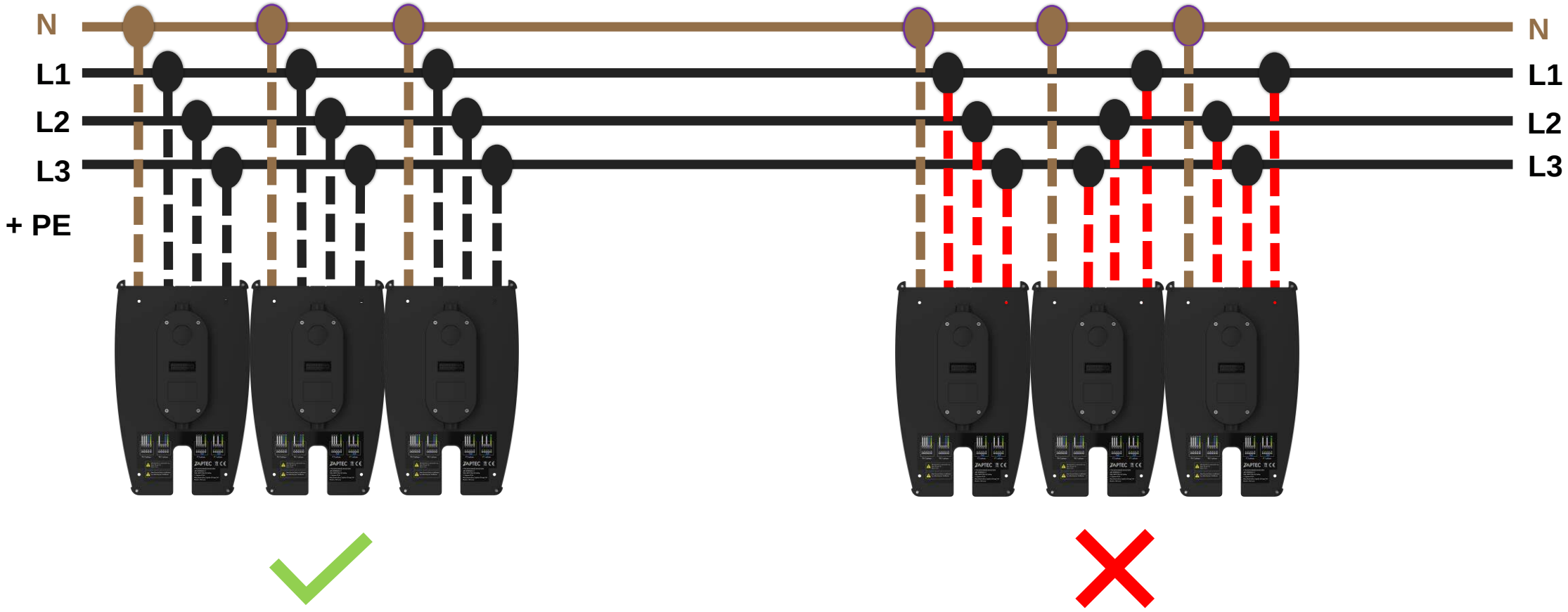




Installation of Zaptec Pro

Dynamic phase and load balancing

3-phase Static phase rotation
(



What is a PLC module?

A module that converts an ethernet signal to travel on the electrical grid.

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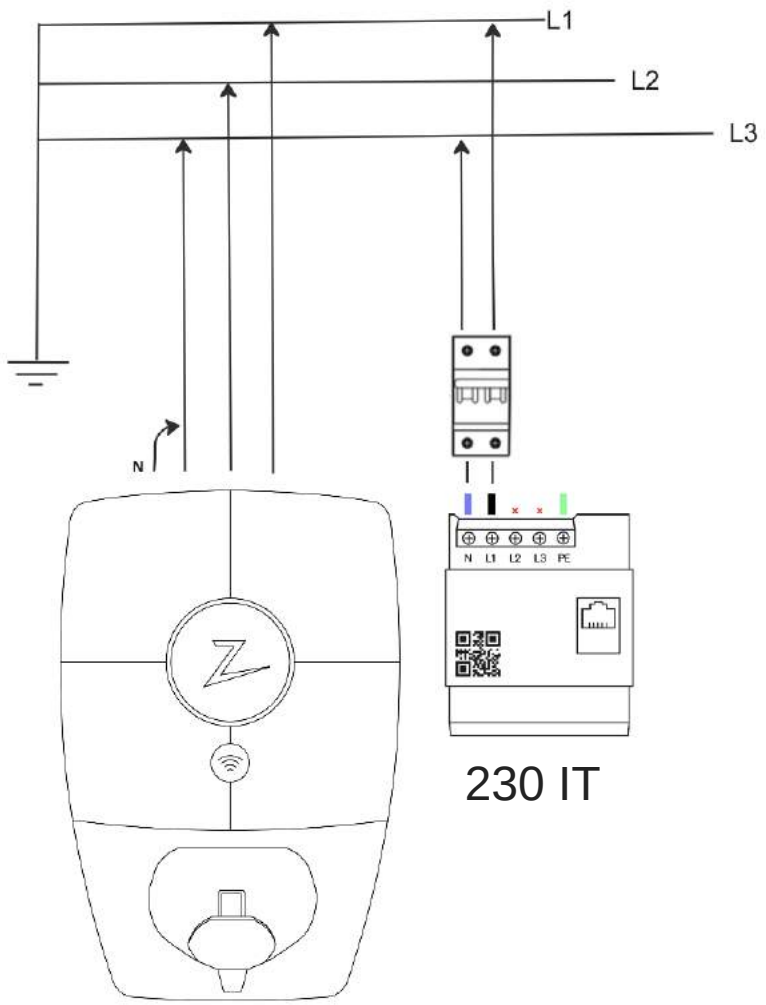
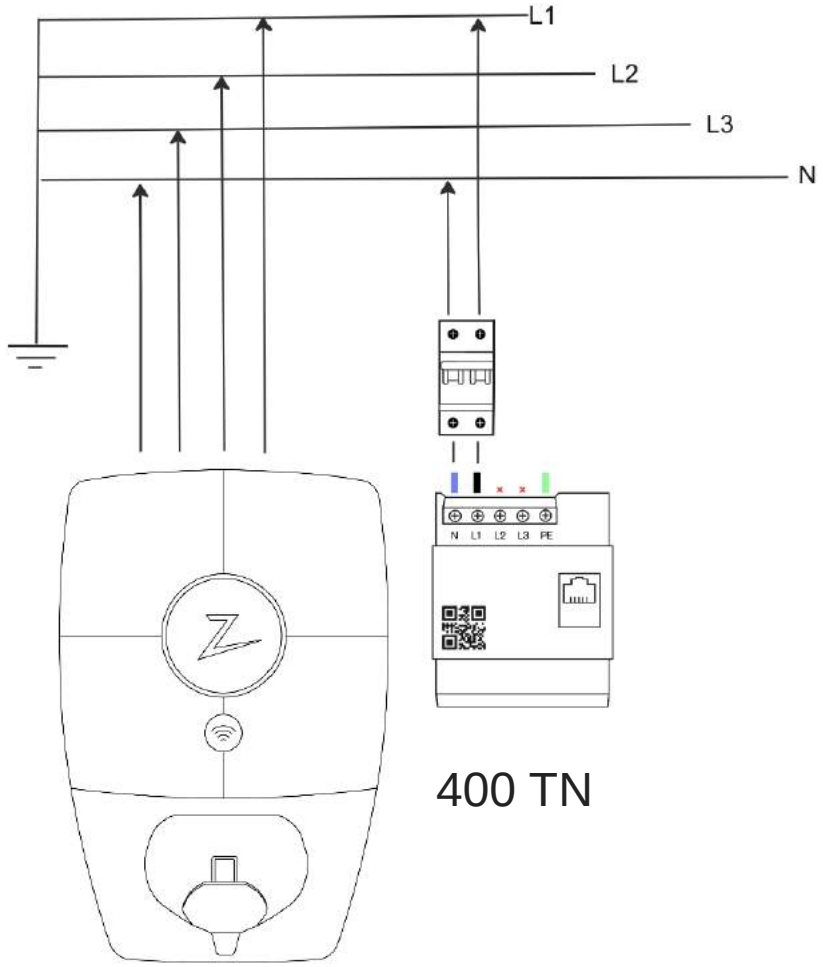
Powerline – 1-phase connection

Installation
Zaptec Pro is wired 3-fase

Fuse box
PLC modul is wired 1-fase



230 IT



400 TN

Zaptec Sense

Zaptec Sense HAN

Even easier load balancing!

- Cost effective
- Easy assembly
- Wireless internet conntection
- Can be retrofitted

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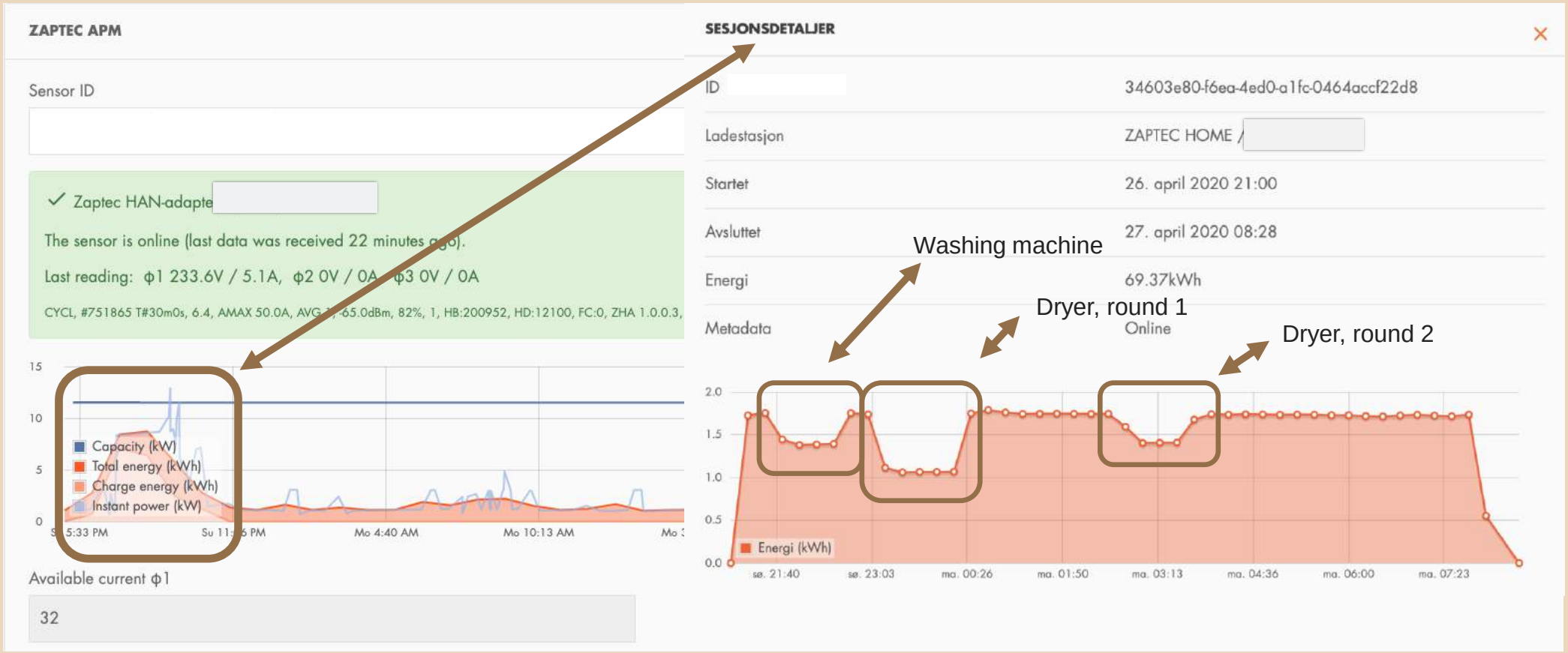
Capacity – Zaptec Sense



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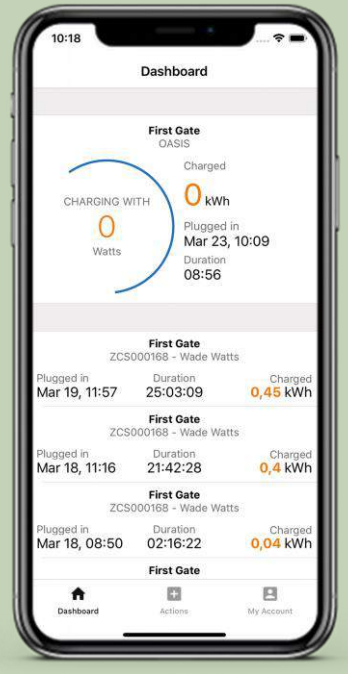
User functionality

Dark mode



Light mode

- Start and stop charging
- Dashboard
- Lock cable
- Register key fob
- Status

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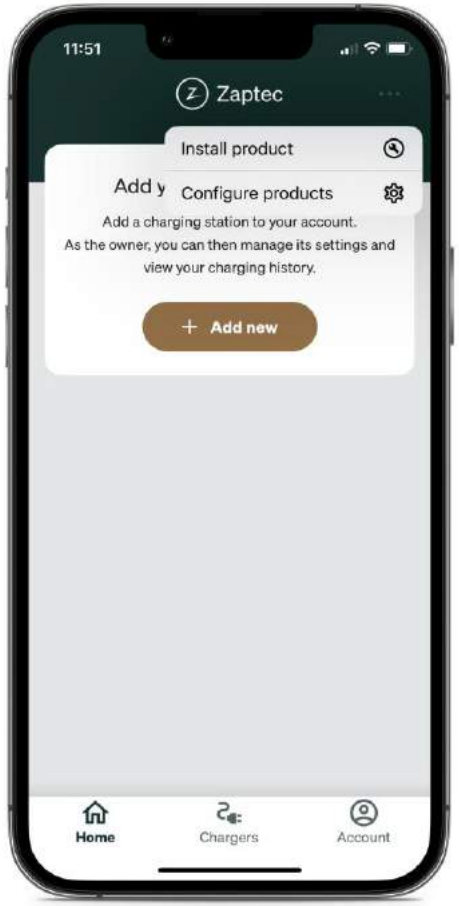
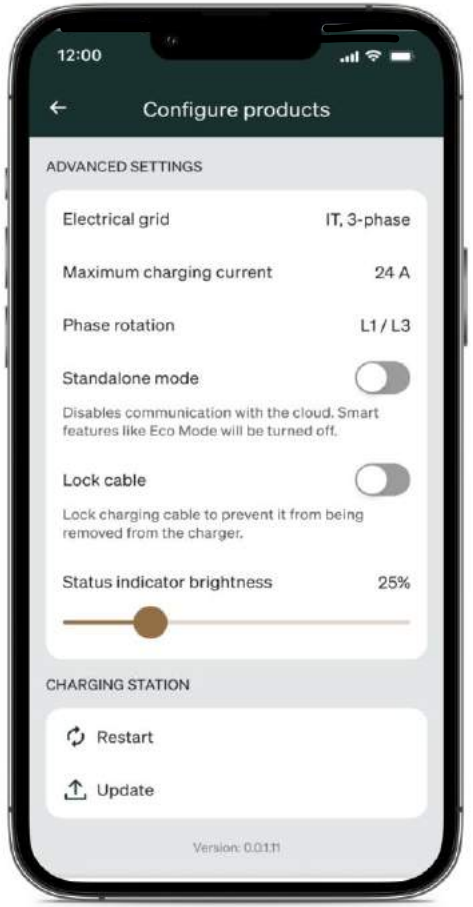
Configure Zaptec Pro

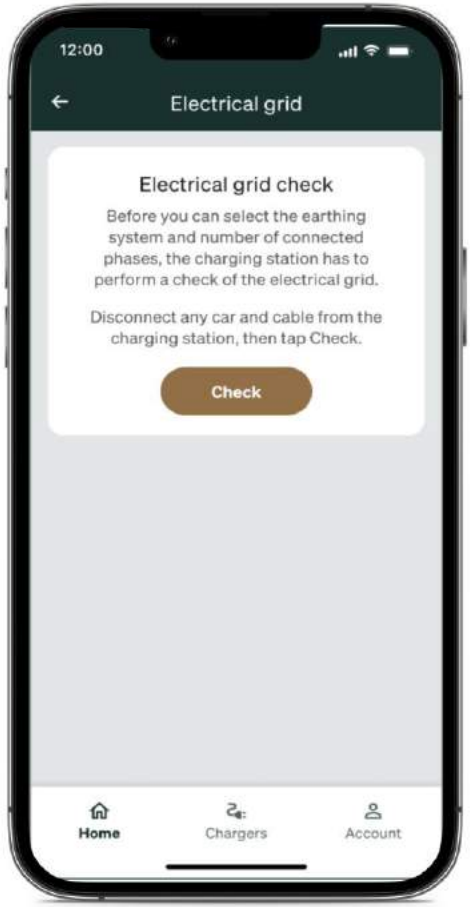
1. Configure product
2. Find device
3. Enter PIN code

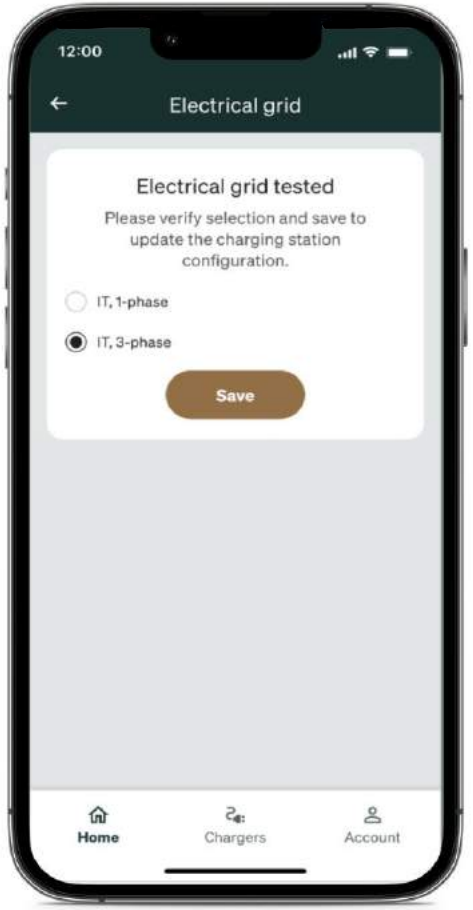


Configure – Electrical grid

1. Tap electrical grid
2. Check
3. Veridy selection

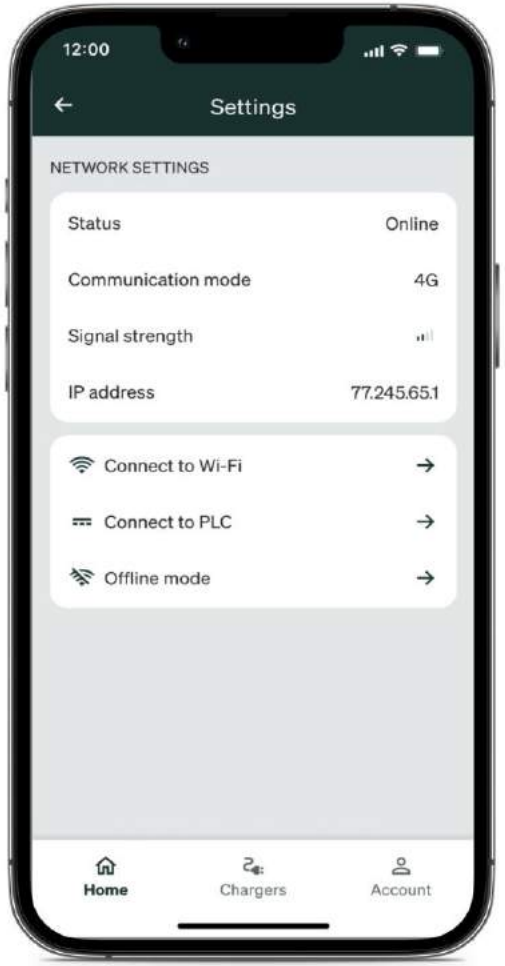


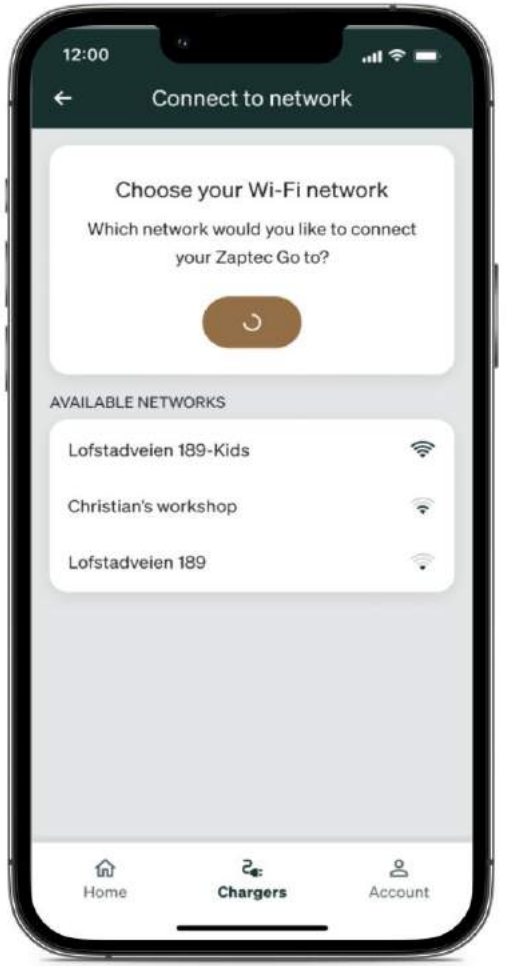




Configure – WiFi 2.4 GHz

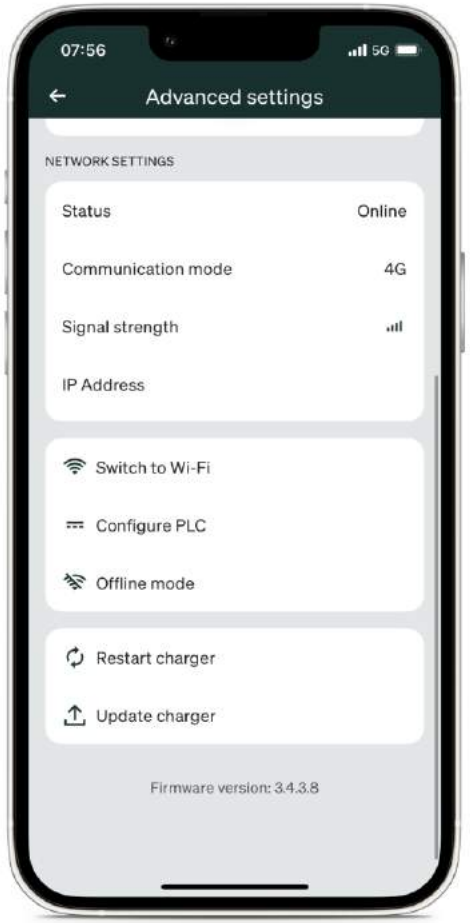
1. Connect to WiFi
2. Choose WiFi Network
3. WiFi password
4. Save

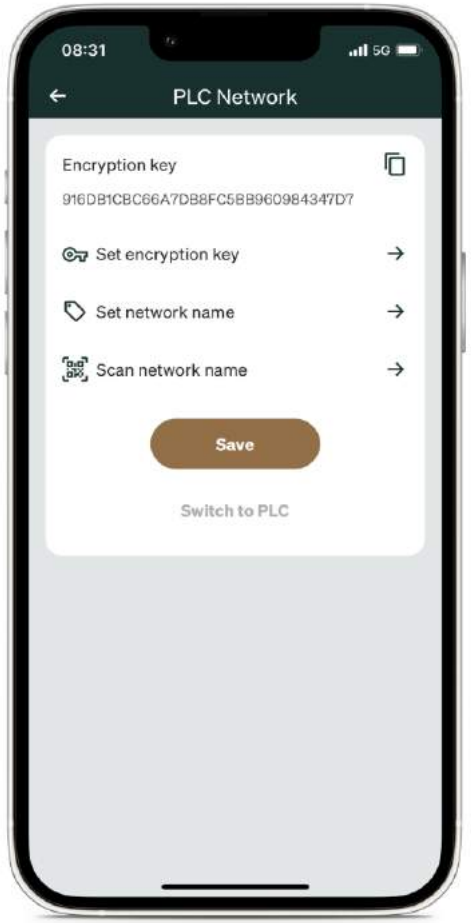




PLC – Configuration

1. Choose “Configure PLC”
2. Scan network name
3. Use camera or upload photo
4. Press Save



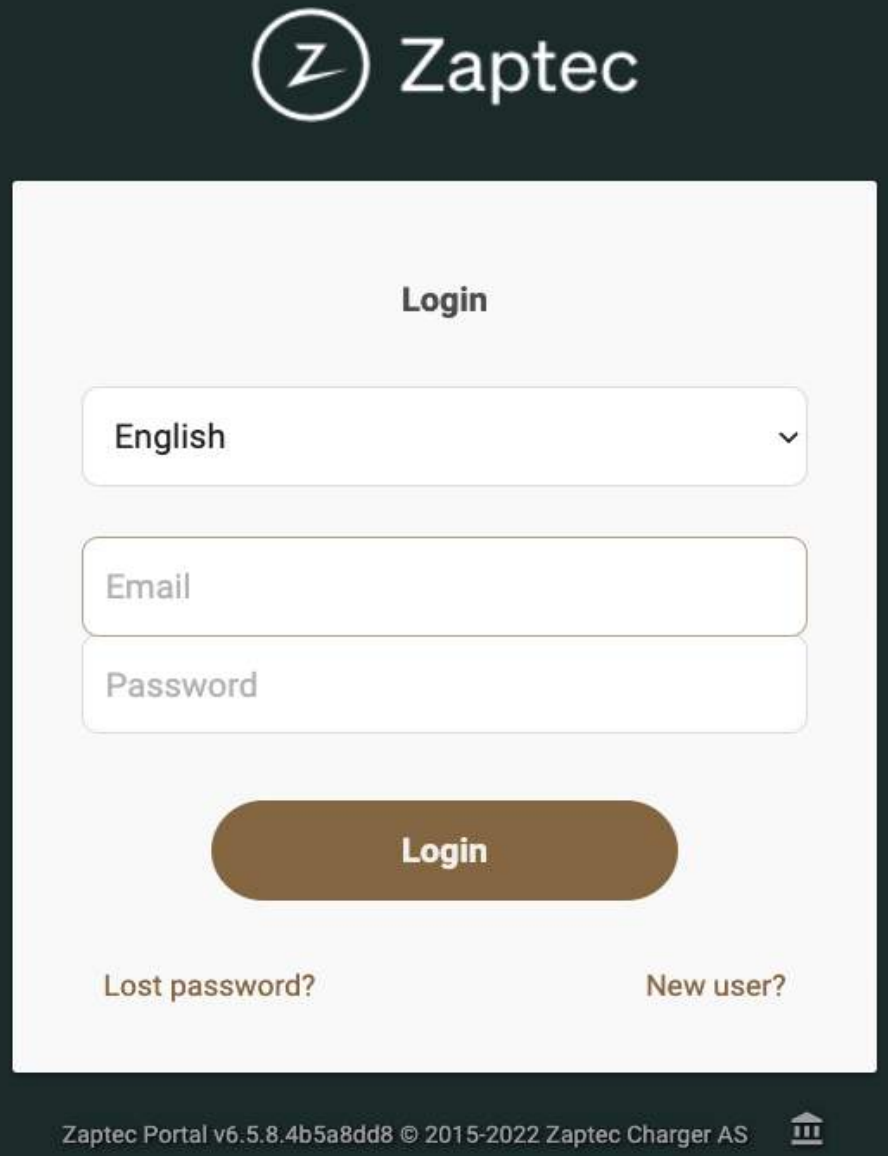


Zaptec Portal

portal.zaptec.com/#!/login/en

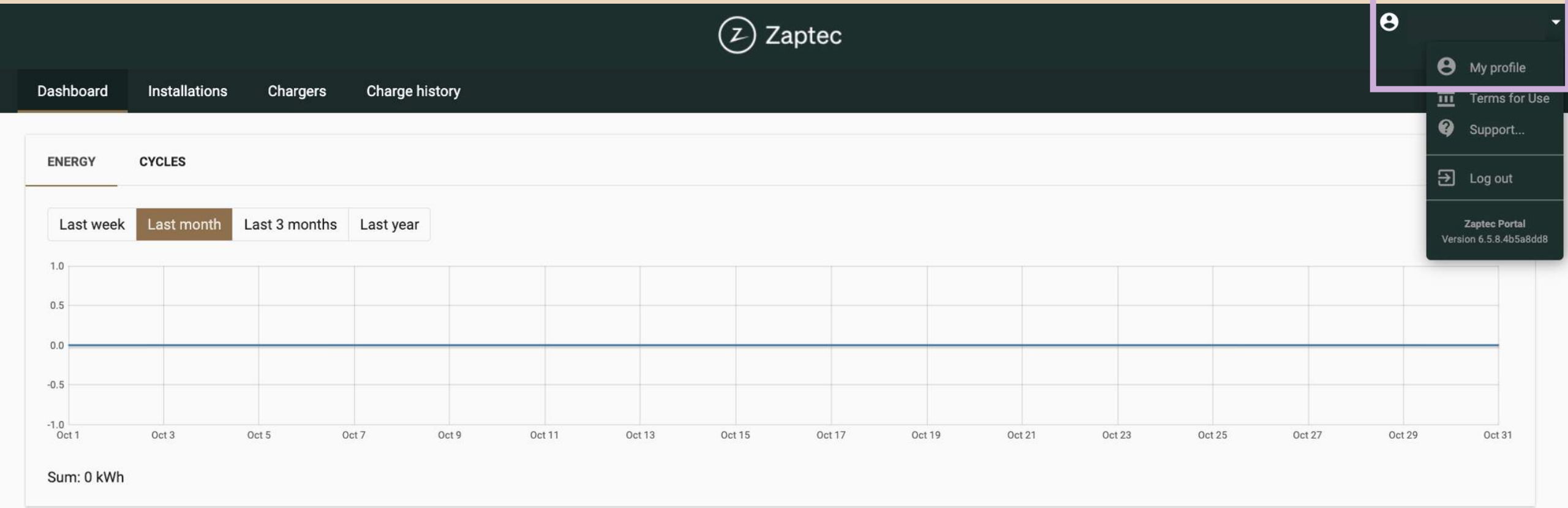
portal.zaptec.com

Same log in as in Zaptec App

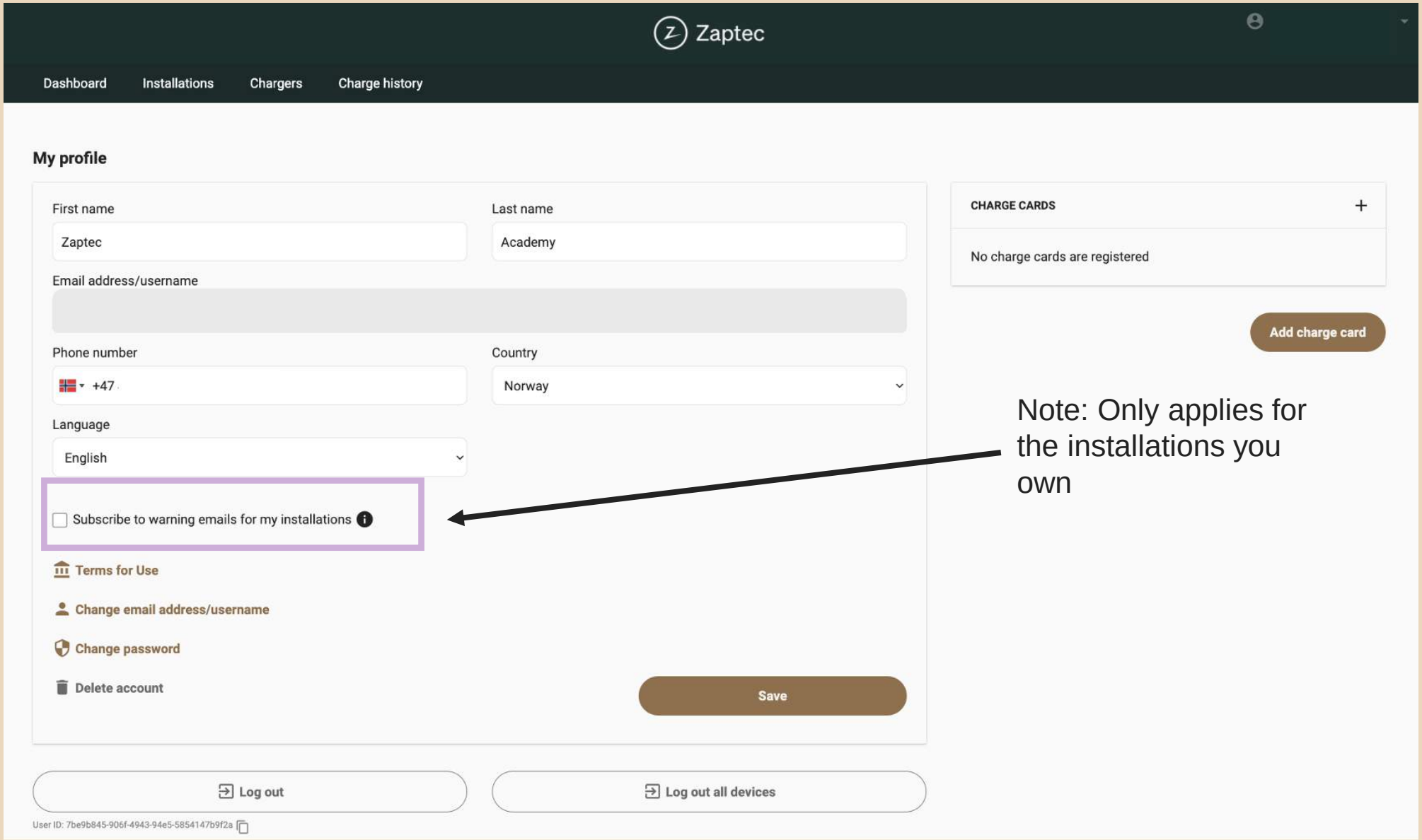


Dashboard

Personal overview, charging history and consumption

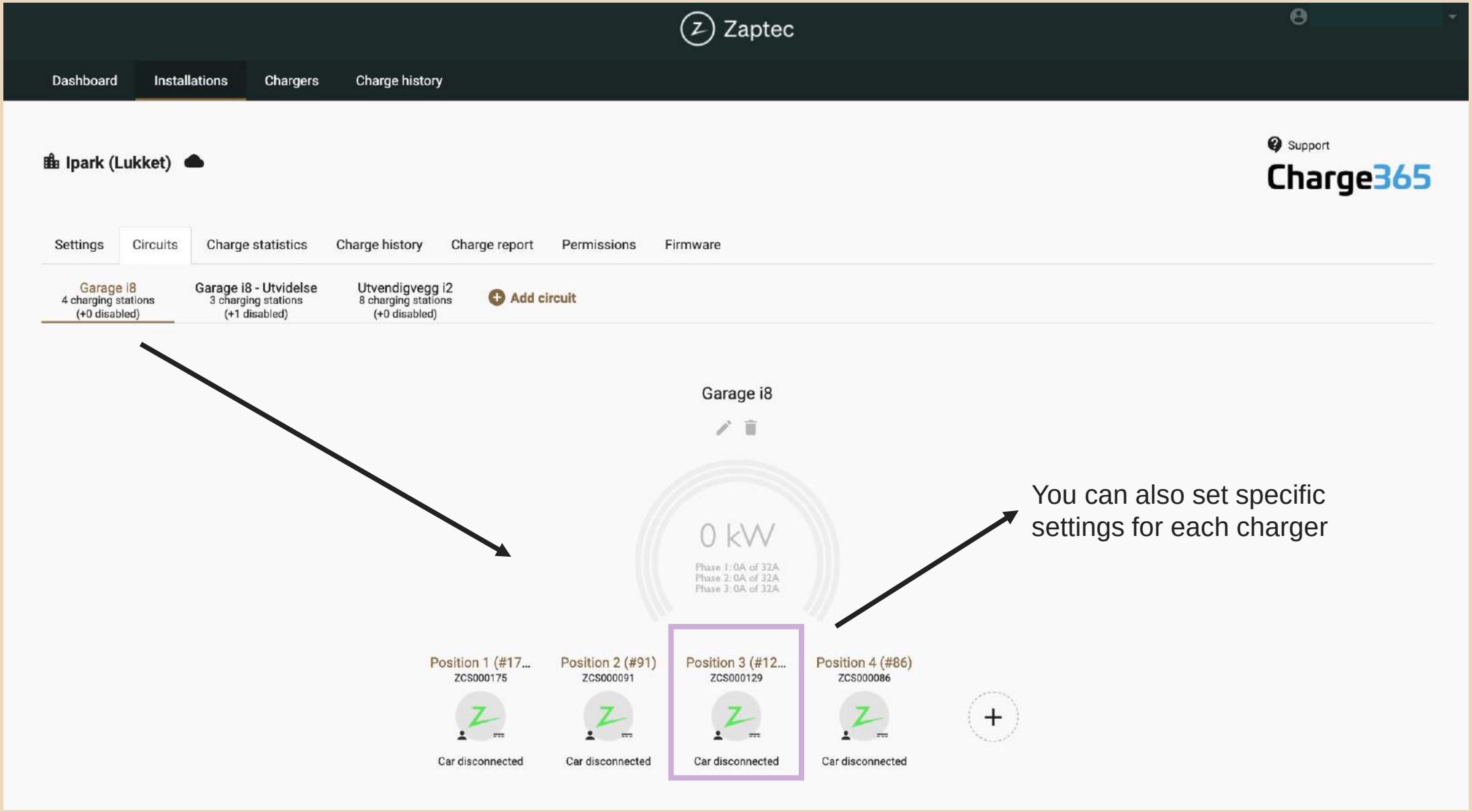


Profile



Note: Only applies for the installations you own

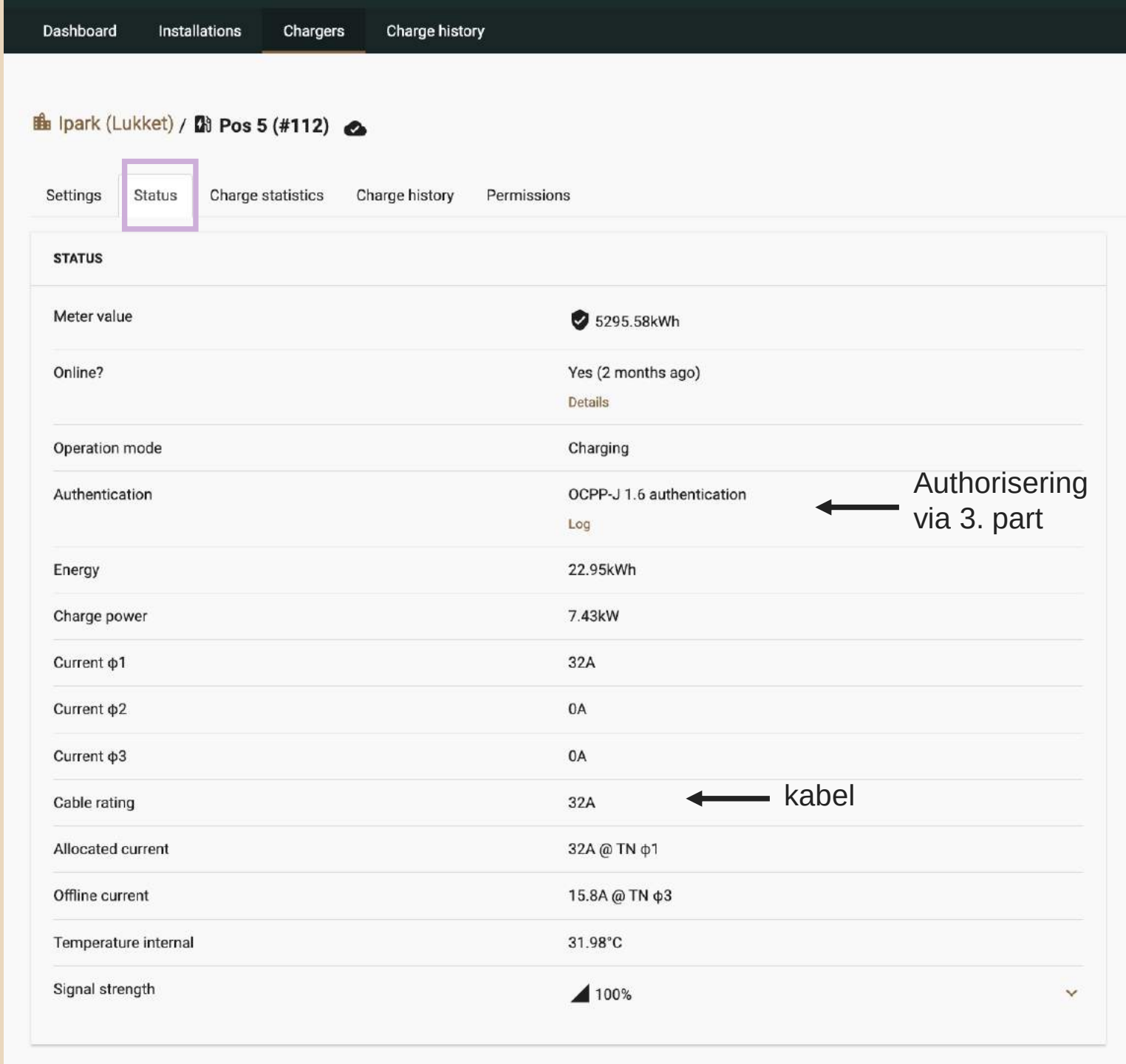
Installation



Charge point

↓

Status

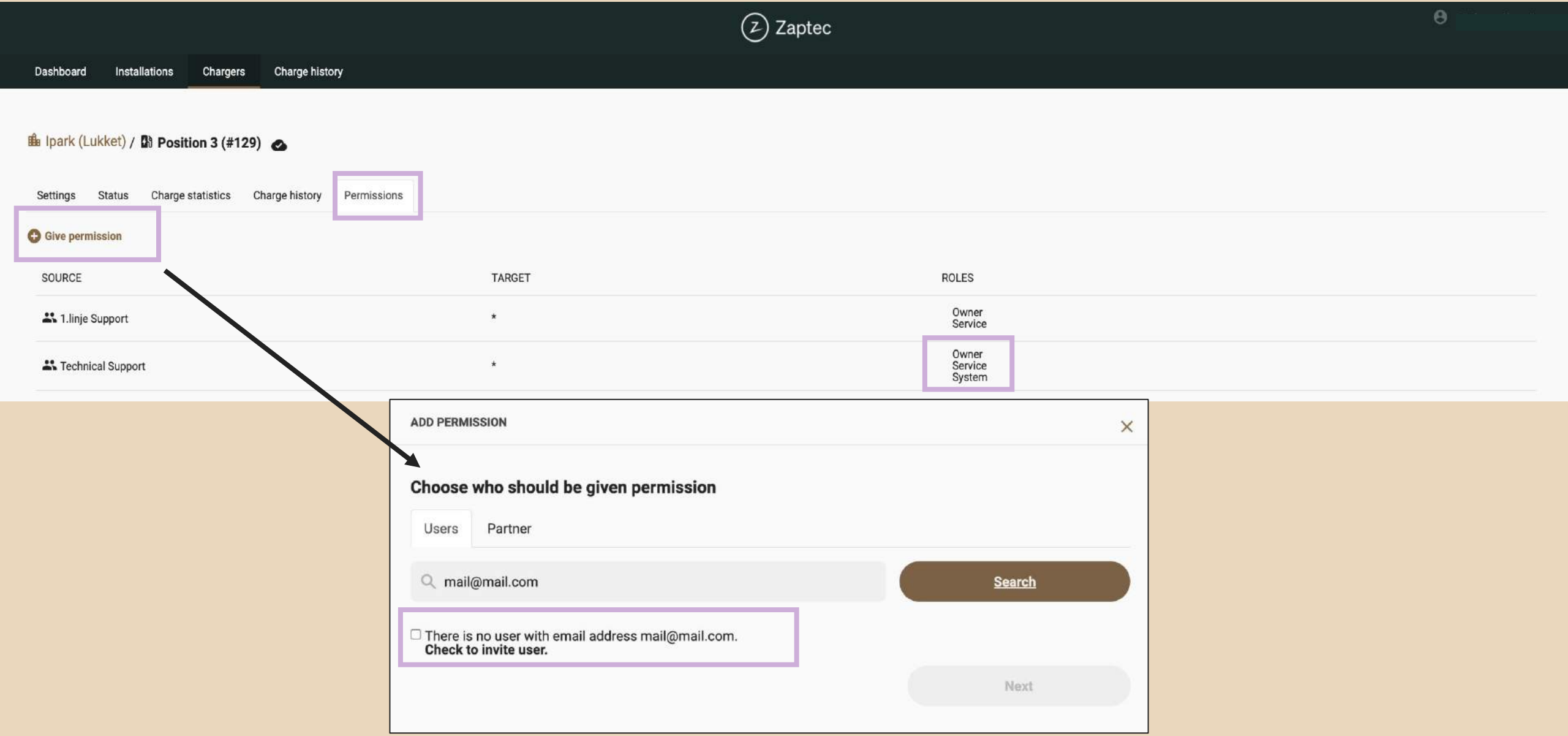


Power management

Scheduled power control

Manual power control

Permissions



Any questions

Zaptec tech support NO
Mandag til fredag 08:00-15:00

+47 919 03 676

Zaptec.com/help

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