EVOS Fleet Home22

Operation Manual - Australia

EVOS

Contents

Charging Station Safety

⚠️ The EVOS Fleet Home22 is designed to only be connected to a dedicated AC supply.

⚠️ The EVOS Fleet Home22 requires only Type A RCD + MCB upstream protection.

⚠️ The use of adapters or conversion adapters are not permitted with EVOS Fleet Home22.

⚠️ The use of cord extensions are not permitted with EVOS Fleet Home22.

⚠️ EVOS Fleet Home22 initial installation must be performed by a qualified electrician.

⚠️ EVOS Fleet Home22 must be installed according to local regulations (AS3000).

⚠️ Ventilation function is not supported by EVOS Fleet Home22.

⚠️ Upstream power must be isolated before insertion or removal of the QUICKON connector.

⚠️ Upstream power must be isolated before insertion or removal of the charging cable.

⚠️ Never open the EVOS Fleet Home22 base, no user serviceable parts.

Getting Started

Thank you for using an EVOS Fleet Home22.
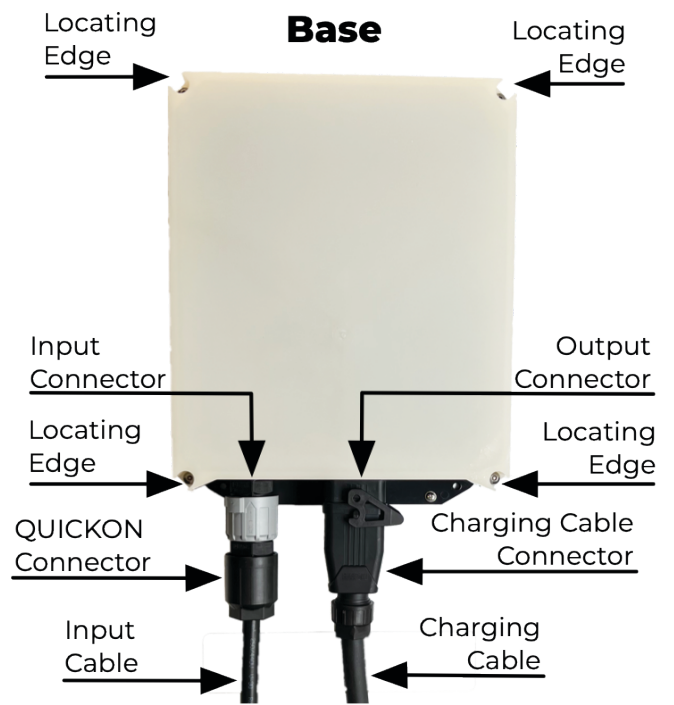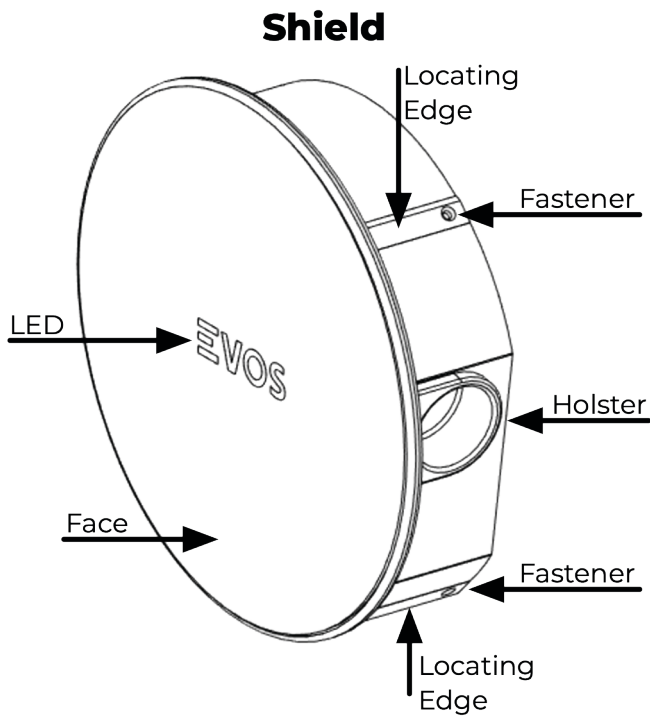Please read all safety information before using the EVOS Fleet Home22.

Contact information can be found at http://evos.com.au
Support information can be found at http://evos.com.au/support

All manuals and procedures can be downloaded at http://evos.com.au/support

⚠️ Fleet Home22 must be installed by a licenced electrician and registered with EVOS to enable charging features.

Component Guide

Shield

- Locating Edge
- Fastener
- LED
- Holster
- Face
- Fastener
- Locating Edge

Base

- Locating Edge
- Locating Edge
- Input Connector
- Output Connector
- Locating Edge
- Locating Edge
- QUICKON Connector
- Charging Cable Connector
- Input Cable
- Charging Cable

Charging Cable with Phoenix Contact Type 1 Plug

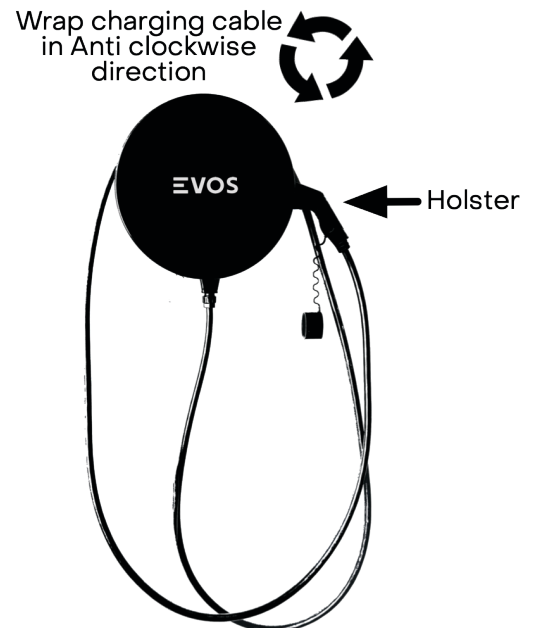### Charging Cable with Phoenix Contact Type 2 Plug

Charging Cable Information

Safety

⚠️ Do not use the charging cable with an extension cable or an adapter.

⚠️ Never use force to remove the plug from the vehicle.
Dangerous electric arcs could result in serious injury or death.

⚠️ Never touch the plug or charging cable if the plug is smoking or melting.

⚠️ Always check the charging cable and the plug contacts for damage and contamination before use.

⚠️ Never use a damaged charging cable or vehicle inlet.

⚠️ Never use contacts that are dirty or damp.

⚠️ Never attempt repairs to the charging cable. Replace damaged articles, repairs are not possible.

Idle station

- Loop the cable once anti-clockwise around the shield to stow charging cable and prevent trip hazards or crush damage.
- Place plug in holster on right hand side OR replace the protective cap immediately when not connected to a vehicle.

Wrap charging cable in Anti clockwise direction

ƎVOS

Holster

Cleaning

- Only clean the charging cable when it is not connected to the vehicle.
- Clean the charging cable and dirty contacts with a dry cloth.
- Never use abrasive cleaning agents, water jet or steam jet cleaners.
- Never submerge the charging cable or plug in liquids.

Repair

- Replace damaged articles.
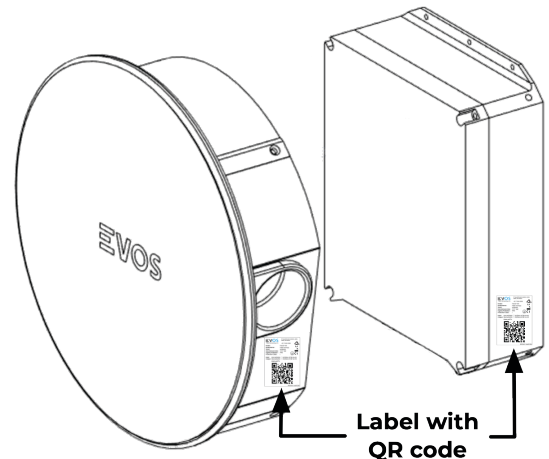- Repairs are not possible.

EVOS App

A login is required to access the EVOS App.
Station connectivity to the internet is required for
EVOS App control.

Scan

Scan the QR code with your phone or tablet to
open the EVOS App.

OR navigate to https://evos.app

**Label with
QR code**

Sign In
Enter your username and password, then
click "Sign In" (1) to access the EVOS App.

Register
Click "Register" (2) to create a login for the
EVOS App

Reset Password
Click "Forgot your password?" (3) to reset
your password

EVOS

Please enter your username and password to login to EVOS Platform

Username

Password

Sign In

Forgot your password?   Register

3   1   2

Register

Enter your details in the fields.

Your email address will be used as your username.
Click "Register" to create login credentials.

Navigation

The home screen will automatically redirect to the station screen where only one
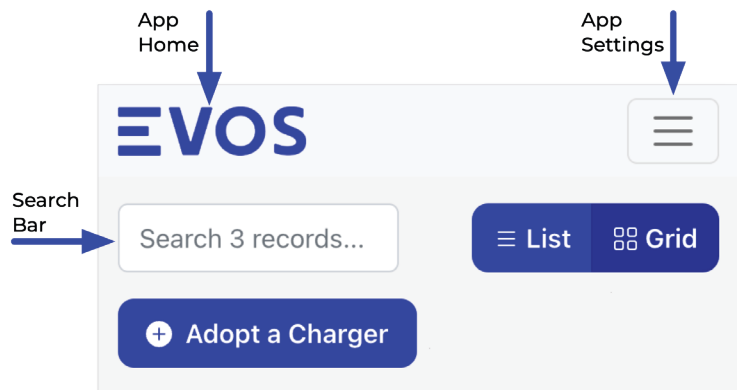station.

App Home
Loads the home screen

App Settings
Configure Application & Logout
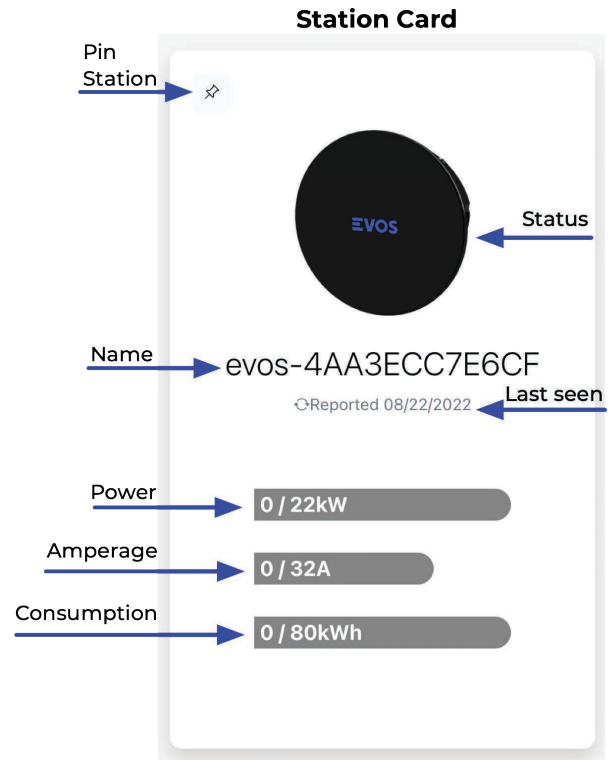
Search Bar
Filter stations as you type

List / Grid
View stations in table or as individ-
ual cards

App
Home

App
Settings

EVOS

Search
Bar

Search 3 records...   ☰ List   ⊞ Grid

➕ Adopt a Charger

Each Card represents an overview of the station.

Clicking a station card will load the station screen.

Station Card

Pin Station

Status

Name — evos-4AA3ECC7E6CF

Reported 08/22/2022 — Last seen

Power — 0 / 22kW

Amperage — 0 / 32A

Consumption — 0 / 80kWh

Station Screen

Action
Start Charge – start charging session
Stop Charge – pause active charging session

EVOS Support
Open support portal

Station Configuration
View settings and configure station

Station Home
Return to station screen

Tariff information
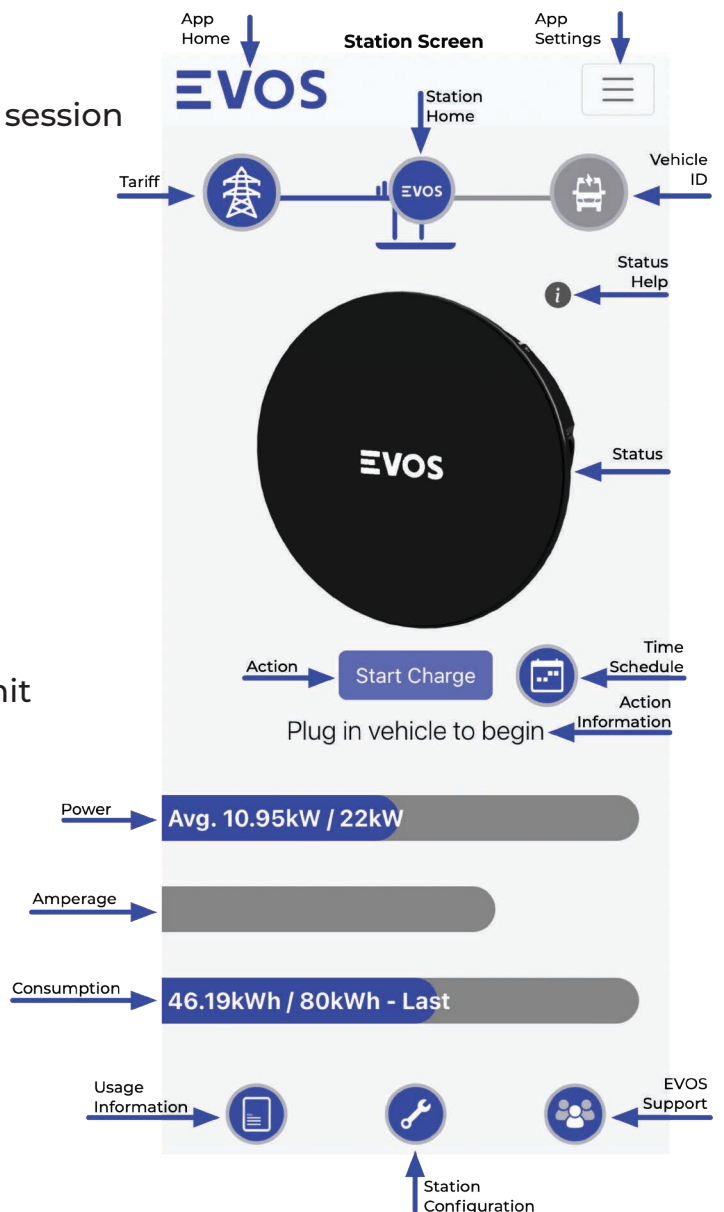View tariff costs of charging sessions

Time Schedule
Configure and apply schedules to limit charging session times
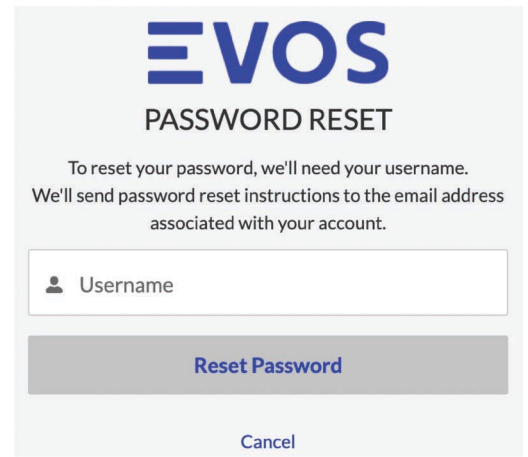
Usage information
View usage reports

Vehicle ID
Configure VID access to stations

App Home

Station Screen

App Settings

Tariff

Station Home

Vehicle ID

Status Help

Status

Action — Start Charge

Time Schedule

Action Information

Plug in vehicle to begin

Power — Avg. 10.95kW / 22kW

Amperage

Consumption — 46.19kWh / 80kWh - Last

Usage Information

Station Configuration

EVOS Support

Password Reset

Enter your username and click the "Reset Password" button.

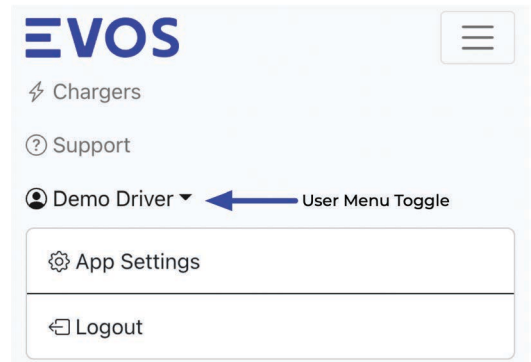An email with instructions will be sent to your registered email.

Option Menu

App Settings
Configure EVOS App and display user information.

Logout
Exit EVOS App.

App Settings

Tariff
Enter the fixed price per kWh in cents.
  Saves as you type

Fuel Price
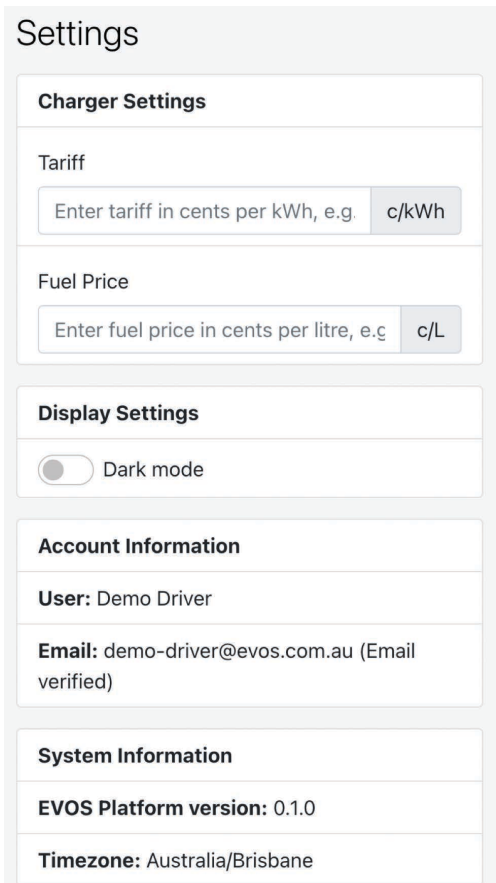Enter the price per litre in cents.
  Saves as you type

Dark Mode
Enable / Disable darker colour pallet.
  Saves on toggle

Logout

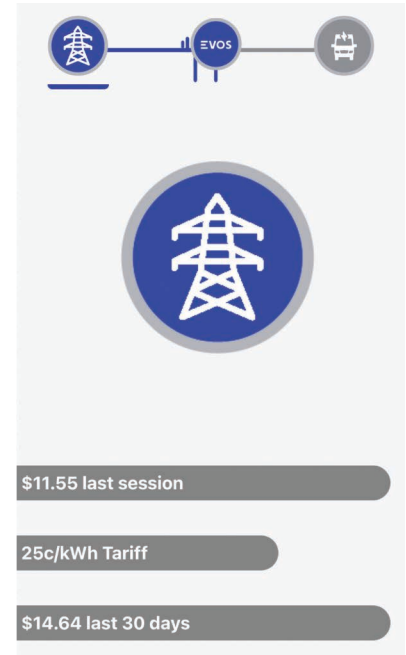Session token will be revoked for all active EVOS App instances.

Page will redirect to the http://evos.app after 15 seconds.

Tariff Panel

Displays
- cost of the last session
- cost per kWh (Fixed Tariff)
- total cost of the last 30 days

$11.55 last session

25c/kWh Tariff

$14.64 last 30 days

Usage Information Panel

Uses the values set in App Settings Panel to calculate energy and fuel costs.

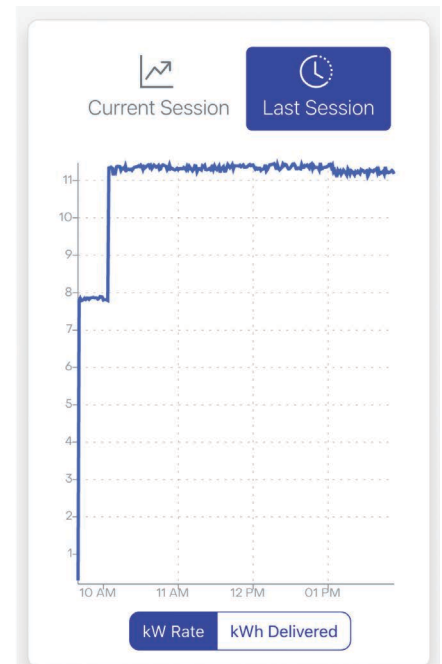### Current Session
Current charging session

Last Session
Last charging session

kW Rate
How fast the vehicle is charging
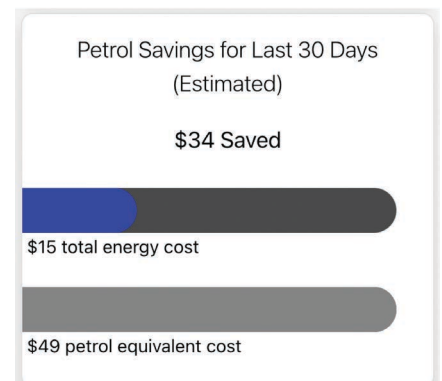
kWh Delivered
How much energy the vehicle consumed

Energy Cost
kWh usage cost using the tariff cost

Petrol Equivalent Cost
Amount of costs

Petrol Savings for Last 30 Days
(Estimated)

$34 Saved

$15 total energy cost

$49 petrol equivalent cost

Station Settings

Control the station mode and view information

Mode

- Open – Plug and charge
- Auth – Plug, authorise, charge
- Maintenance – Disabled

⚠️ Mode changes may not apply during an active charging session.

Circuit amperage limit can only be set by a licenced electrician.

Settings

Charger firmware version: 131bfe9

VID ID: Not Available

VID VIN: Not Available

Install date: 2022-07-15

Circuit amperage limit: 32 Amps

Serial: 000001

Mode

Mode: Open ▾ ← Menu

- Open: Anyone can use the charger
- Authentication: Only authorised users can use the charger
- Maintenance: Nobody can use the charger (for example, use this when the charger has been damaged and is awaiting repair)

Uninstall charger

[Uninstall charger]

Uninstall charger

Reset station configuration and enable adoption.

⚠️ Station will require reinstallation by a licenced electrician.

Uninstall charger

☐ Are you sure you want to uninstall this charger?

[UNINSTALL CHARGER] [Go Back]

Adopt a Station

Upon successful adoption, the station will be transferred to your account.

Adoption Key

Key printed on the Adoption Key Card provided inside the EVOS Fleet Home22 box.

Serial

Station Serial print on the Adoption Key card.

Charger Name

Name of the station

Adopt a Charger

[Charger Details]

Adopt an EVOS Charger

Adoption Key

[Enter adoption key...]

Serial Number

[Enter serial number...]

Charger Name (optional)

[Enter charger name...]

[Submit] Cancel

Adopt a Charger

[Charger Details]

Adopt an EVOS Charger

✅
Done!

Charger adopted successfully.

Serial Number 000003

You are now the Owner of this EVOS charger. The adoption key provided will no longer be valid.

Back to Chargers

Time Schedule

When the Time schedule icon is clicked from the station screen, the "Your Charging Schedule" window will open.

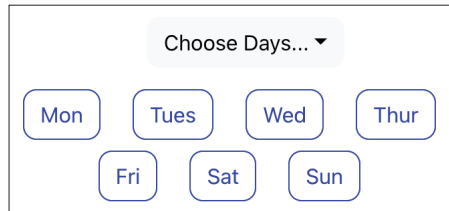Click "Set New Schedule" to create a new charging schedule.

Use the Arrow Icon to move the 12 hour window
- Midnight to Lunch
- Lunch to Midnight

Click the hour markers to move to set the start and stop times.

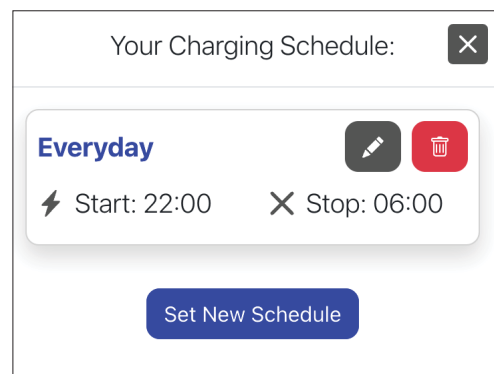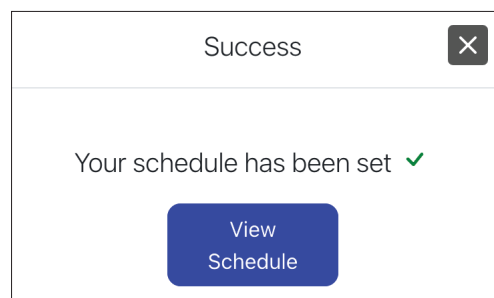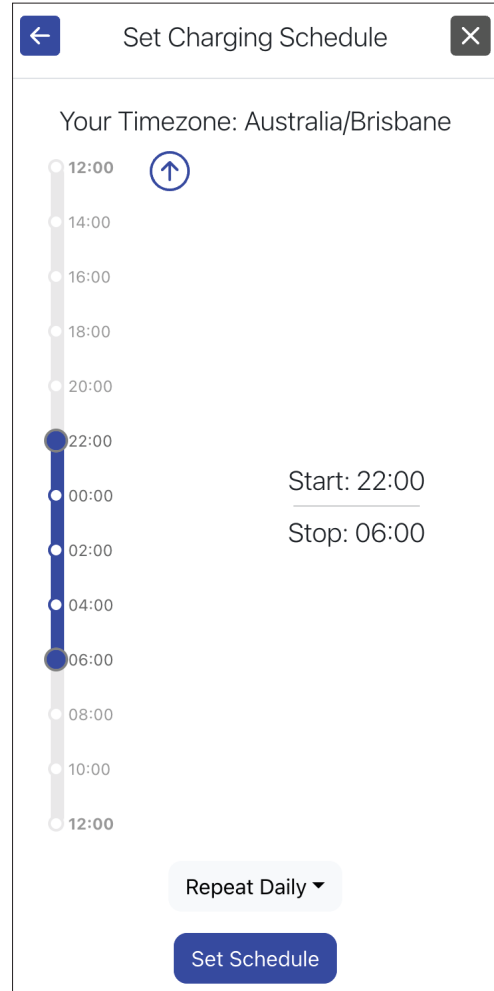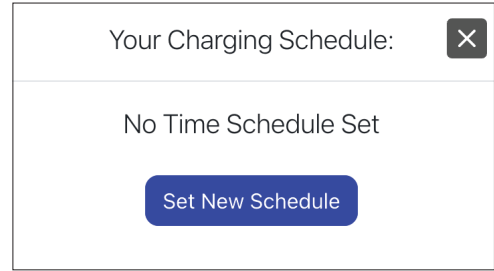"Repeat daily" applies the schedule every day.

Toggle "Choose Days" to select manually.

Click "Set Schedule" to apply the changes.

Once completed you can view the schedules.
- Pencil icon will open the edit screen
- Garbage icon will delete the schedule

Your Charging Schedule: [X]

No Time Schedule Set

[Set New Schedule]

[←]   Set Charging Schedule   [X]

Your Timezone: Australia/Brisbane

12:00 [↑]
14:00
16:00
18:00
20:00
22:00
00:00
02:00
04:00
06:00
08:00
10:00
12:00

Start: 22:00

Stop: 06:00

[Repeat Daily ▾]

[Set Schedule]

Choose Days... ▾

| Mon | Tues | Wed | Thur |
| Fri | Sat | Sun |

Success [X]

Your schedule has been set ✓

[View Schedule]

Your Charging Schedule: [X]

Everyday   [✏️] [🗑️]
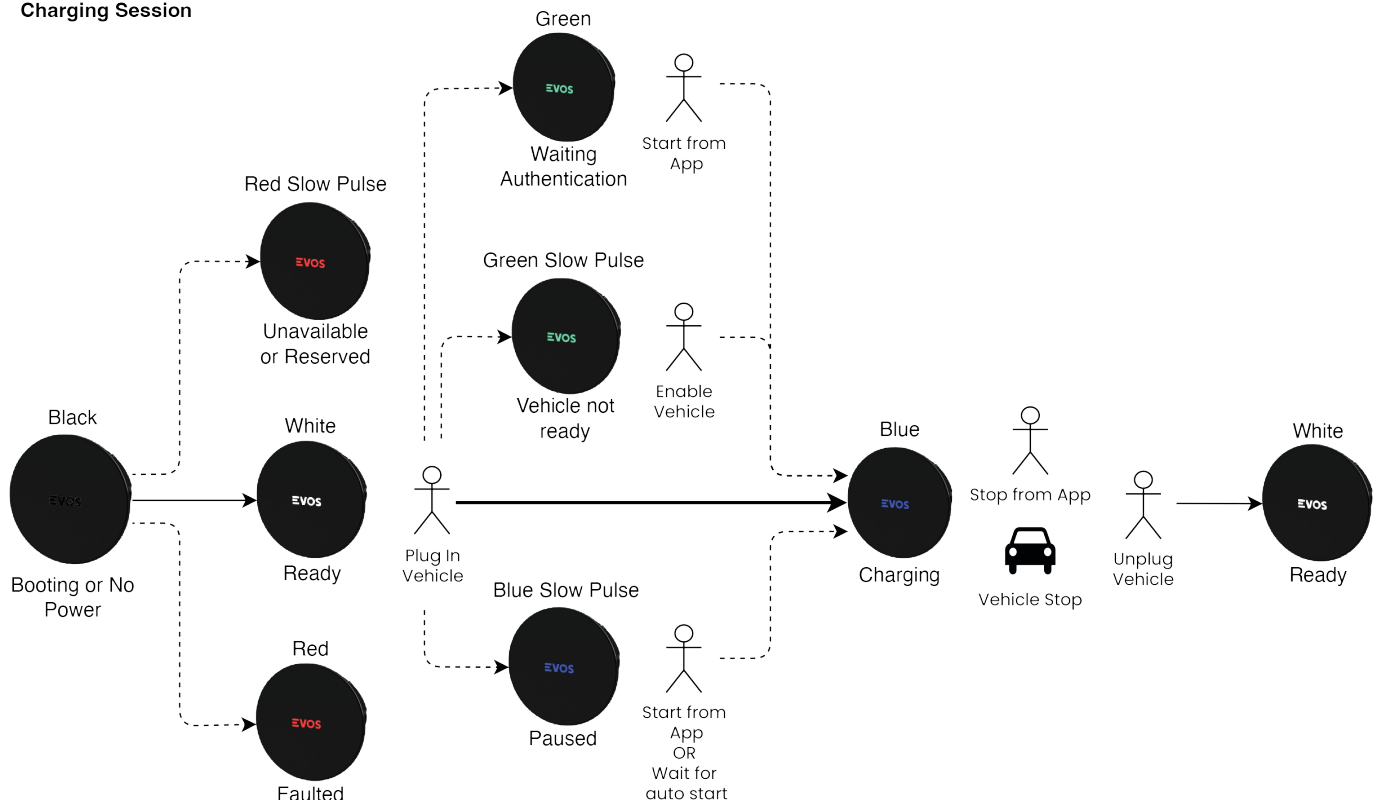
⚡ Start: 22:00   ✕ Stop: 06:00

[Set New Schedule]

Charging a vehicle

1. Check EVOS Fleet Home22 status LED is White.
2. Follow vehicle preparation instructions for starting a charging session (unlock inlet / open door / remove inlet cover).
3. Remove the plug from the holster or remove the protective cap.
4. Check the charging cable for damage and the plug for damage or contamination.
5. Insert the plug into the vehicle inlet. Check the plug is fully inserted.
6. The vehicle inlet will lock the plug.
7. Start of charging session

    Fleet Home22 status LED
    - Blue – Charging
    - Blue Slow Pulse – Paused
    - Green – Waiting Authentication
    - Green Slow Pulse – Vehicle not ready
8. When the charging session ends, follow the vehicle instructions to unlock the vehicle inlet.
9. Remove the plug from the vehicle inlet.

    ⚠ Never use force to remove the plug.

10. Loop the cable once anti-clockwise around the shield and place the plug in the holster or replace the protective cap immediately.
11. Check Fleet Home22 status LED is White.
12. Follow vehicle instructions after charging session (install covers / close door).

Charging Session Flow

Fleet Home 22
Charging Session

LED Status Colours

The LEDs of the EVOS Fleet Home22 convey the state of the station as listed below.

Constant LED		Pulsing LED	
	White Ready		**White Fast Pulse** Authentication requested (RFID model only)
	Green Waiting Authentication		**Green Slow Pulse** Vehicle not ready
	Blue Charging		**Blue Slow Pulse** Paused
	Red Faulted		**Red Fast Pulse** Authentication Denied
	Black Booting OR No Power		**Red Slow Pulse** Unavailable or Reserved

LED Status Quick Actions

Colour	State	Quick
Constant White	Ready	Plug in vehicle
White Fast Pulse	Authentication requested	Wait for authentication reply
Constant Green	Waiting Authentication	Press "Start Charge" in EVOS APP
Green Slow Pulse	Vehicle not ready	Check vehicle for information
Constant Blue	Charging	NIL
Blue Slow Pulse	Paused	Check EVOS APP for information
Constant Red	Faulted	Check EVOS APP for information
Red Slow Pulse	Unavailable or Reserved	Check EVOS APP for information
Red Fast Pulse	Authentication Denied	Check OCPP provider for information
Constant Black	Booting or No Power	Power cycle station

Maintenance

Cleaning

Shield

- Remove charging cable plug from holster and replace protective cap. Keep plug away from station where water could enter plug.
- Gently clean using a clean cloth with mild detergent and water to avoid scratching the face.
- Never use abrasive cleaning agents or solvents, water jet cleaners or steam jet cleaners.

Charging Cable

- Only clean the charging cable when it is not connected to the vehicle.
- Clean the charging cable and dirty contacts with a dry cloth.
- Never use abrasive cleaning agents, water jet cleaners or steam jet cleaners.
- Never submerge the charging cable or plug in liquids.

Base

- Wipe unit with a dry cloth.
- Never use abrasive cleaning agents, water jet cleaners or steam jet cleaners.

Swap base unit

Please see procedure "EVOS Fleet Home22 – Replace Base Procedure"

Swap charging cable

Please see procedure "EVOS Fleet Home22 – Replace Charging Cable Procedure"

Swap shield

Please see procedure "EVOS Fleet Home22 – Replace Shield Procedure"

Product Specification

Communication

Charging Mode	3
Protocol	OCPP 1.6
Wired	Ethernet 10/100Mbit
Wireless	Wi-Fi: 2.4GHz IEEE 802.11.b/g/n Bluetooth: 4.1 Optional: LTE CAT-M1

Compliance

Certification	CE Certified
Protection Class	I
Standards	IEC 61851-1, IEC 61851-21-2 EU RoHS Directive Compliant

Connector

Cable length	5m (optional 6m)
Charging Connector Type	Type 1 (SAE J1772 / IEC 62196 Type 1) Type 2 (IEC 62196 Type 2)

Electrical

Charging Power	7.4kW (1P max) or 22kW (3P max)
Connection Method	Permanently connected
Ground	PE Cable
Input power supply characteristics	EV supply equipment connected to AC supply network
Input voltage (L-N)	110 to 230 V AC
Maximum Output Current	32 Amps per phase
Nominal AC Frequency	50 Hz / 60 Hz
Output power supply characteristics	AC EV supply equipment
Protection	6mA DC RCD - Only Type A RCD + MCB upstream protection required

Environmental

Access Condition	Unrestricted Access
Altitude	Up to 2000M
Impact Protection	IK10
Ingress Protection	IP65
Operating temperature	-25 °C to 50 °C
Relative humidity	Maximum 95% non-condensing

Logistics

Storage temperature	From -30°C to 85°C
Packing weight	8.2kg
Packing Dimensions (L x W x H)	530 x 510 x 200mm

Physical

Colour	Black Piano
Dimensions (W circular x H)	380 x 100mm
HMI	LED with dedicated apps
Mounting Height	Minimum 900mm from lowest edge to floor level
Mounting Type	Wall
Weight (excluding cable)	2.9kg

Version Control Information

Item	Version	Date	Contributors
Initial document creation	1.1	17/11/2022	Leslie Smith