

EVOS Pro EV Wallbox

User manual

Model: FH-22-3P-T2-5-0

Revised on: 2026.01.15

Version : UM- FH-22-3P-T2-5-0-V1.0EN

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Safety Precautions

Read and follow these precautions to ensure safe use.

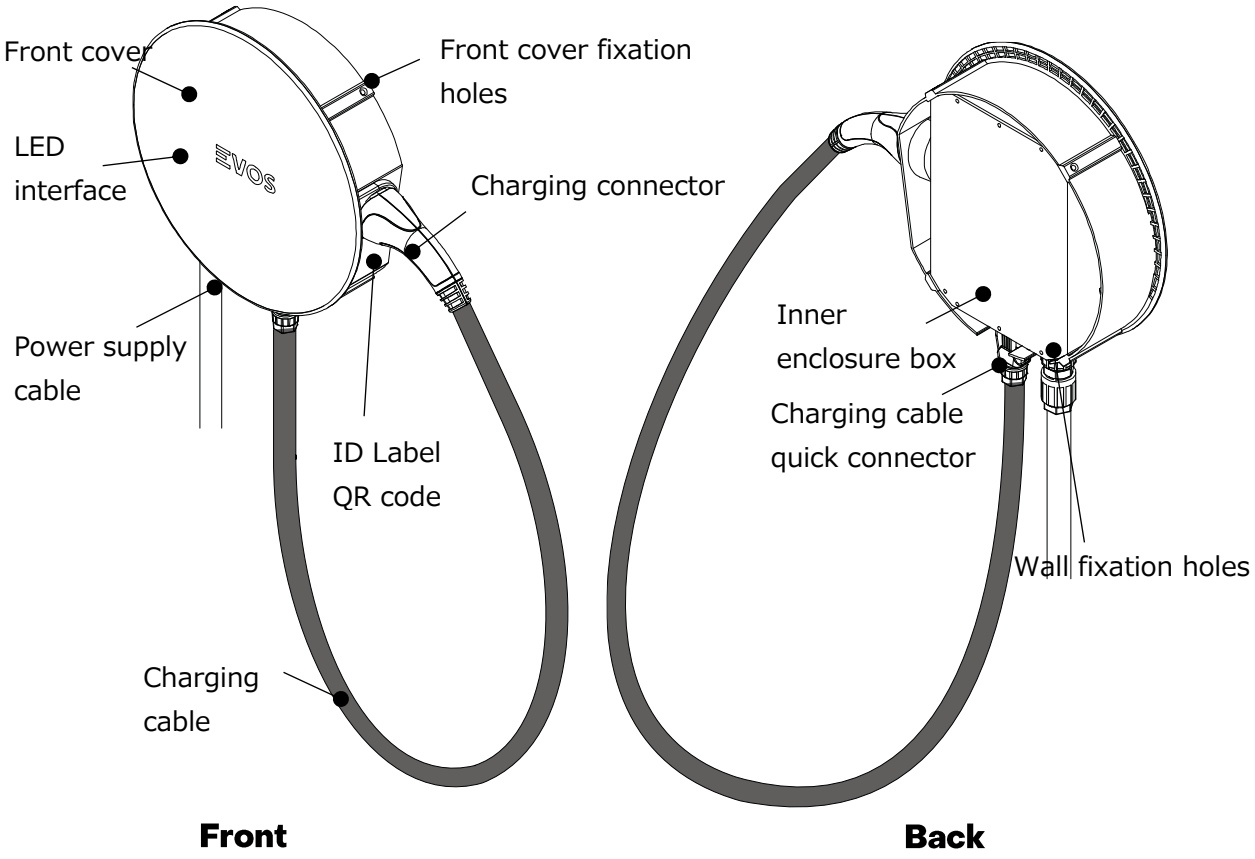
- Electrical wiring must be carried out by a qualified electrician. Refer to the Installation Manual for installation details.
- Electrical wiring must comply with the Technical Standards for Electrical Installations and the Internal Wiring Regulations applicable in Japan.

Failures caused by not following the Installation Manual or User Manual are excluded from the product warranty, even during the warranty period.

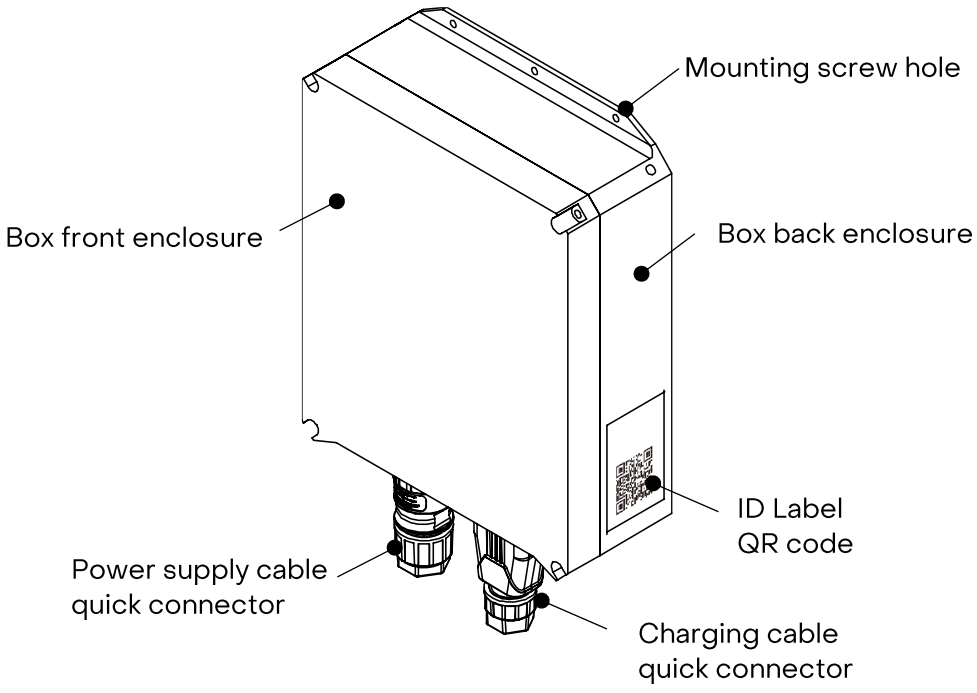
Precautions for Use

<table>
<tr><td colspan="4">⚠ WARNING</td></tr>
<tr><td>⚠ CAUTION</td><td>Switch OFF the upstream breaker before periodic inspection. Risk of electric shock.</td><td rowspan="6">REQUIRED</td><td>Use only within the rated capacity. Exceeding it may cause electric shock or fire.</td></tr>
<tr><td rowspan="5">PROHIBITED</td><td>Never disassemble or modify the product. Risk of electric shock or fire.</td><td>Keep the charging connector terminals dry. Risk of electric shock.</td></tr>
<tr><td>Use only to charge electric or plug-in hybrid vehicles. Other uses may cause failure.</td><td>If the cable is twisted, untwist it before use; do not pull forcefully. The cable may break.</td></tr>
<tr><td>Do not handle the charging connector with wet hands. Risk of electric shock.</td><td>Do not use a damaged connector or cable. Risk of electric shock or fire. Contact us if damaged.</td></tr>
<tr><td>Do not apply excessive force to the cable. It may break.</td><td rowspan="2">People with implanted pacemakers or defibrillators (ICDs) should not lean against the charger during charging; radio emissions may affect their operation.</td></tr>
<tr><td>Do not subject the product to strong impacts. Risk of electric shock, fire or failure.</td></tr>
<tr><td colspan="4">⚠ CAUTION</td></tr>
<tr><td>⚠ CAUTION</td><td>The surface may become hot in direct sunlight. Exercise care in hot weather.</td><td rowspan="4">REQUIRED</td><td>Press the unlock button before removing the charging connector to avoid damage.</td></tr>
<tr><td rowspan="3">PROHIBITED</td><td>Do not operate the product when flooded or wet. Risk of fire or electric shock.</td><td>If you notice unusual odors, heat or discoloration, stop using the product immediately and contact the installer.</td></tr>
<tr><td>Do not stand on or lean against the product. Damage or accidents may result.</td><td>Read the vehicle user manual before using this product.</td></tr>
<tr><td>Do not cover the product with cloth, bedding or clothing. Malfunction may result.</td><td></td></tr>
</table>

Product Overview and Component Names



Inner enclosure box details

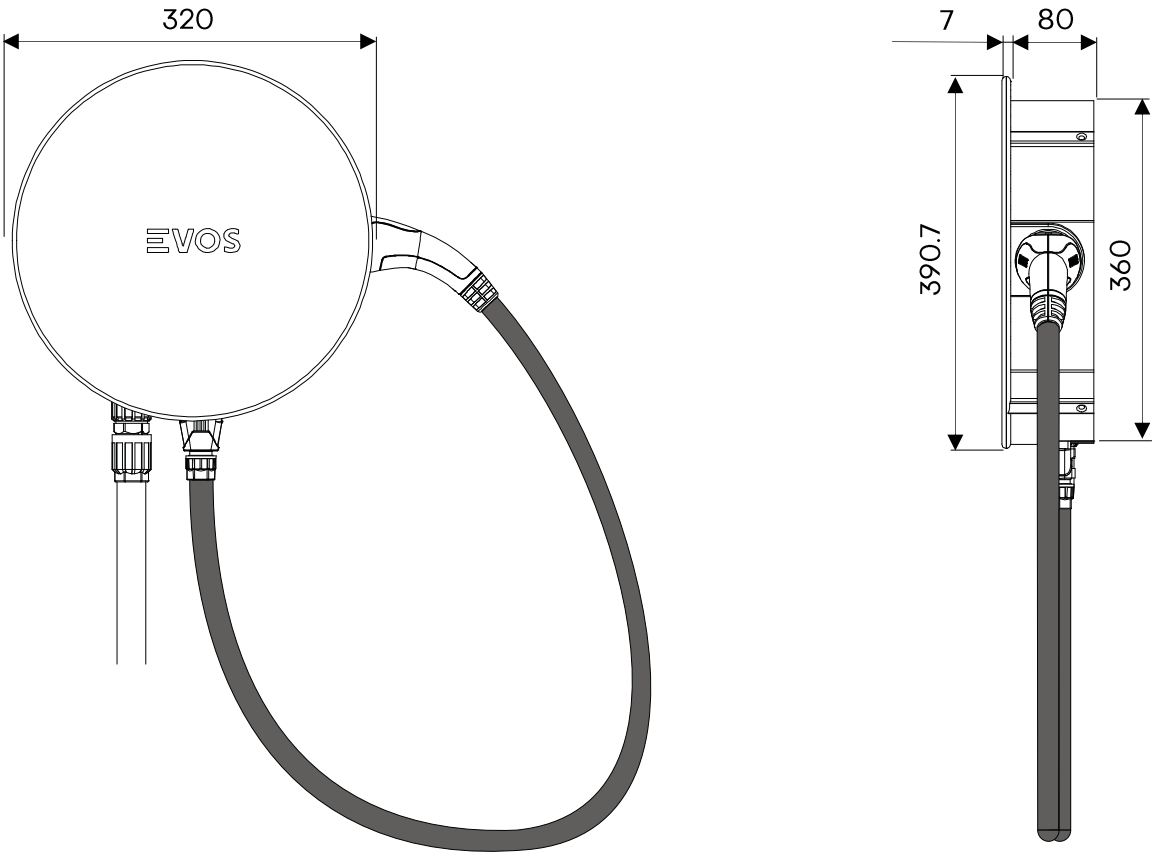


Specifications

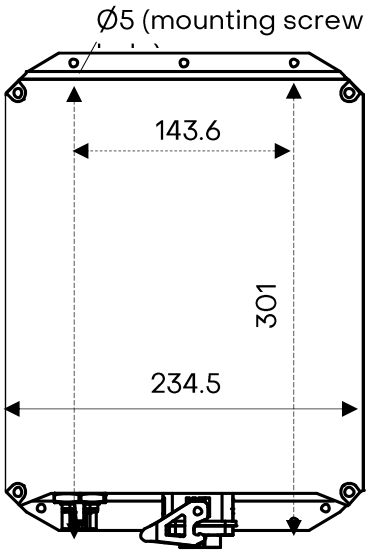
	Item	Specification
Product	Model name	EVOS Pro
	Model number	FH-22-3P-NC-5-0
Output	Output	7 kW (1P) / 22kW (3P)
Input	Rated input current	32A per phase
	Rated input voltage / frequency	Single-phase or Three-phase 200~250 V AC 50/60 Hz
	Standby power	5W
Type	Charging mode	Mode 3, Case C
	Charging connector compliance	IEC 62196-2 Type 2/ SAE J1772
Dimensions	Charging cable length	Approx. 5 m
	Height	390.7 mm
	Width	390.7 mm
	Depth	98 mm
Appearance	Color	Black
Weight	Weight	3.6kg (charger); 2.1 kg (cable)
Environment	Installation environment	Indoor and outdoor
	Ingress protection	IP65 (charger); IP44 (connector)
	Impact protection	IK10
	Installation environment	≤95% RH (non-condensing); altitude ≤2,000 m
	Operating temperature	-25°C to +50°C
Communications	Communication interfaces	Bluetooth 4.1 LE/BR/EDR 24 Mb/s; Wi-Fi 4 802.11 b/g/n WPA2 150 Mb/s
	Communication protocol	OCPP 1.6J (upgradeable to OCPP 2.0.1)
Safety	Protection functions	6 mA DC residual-current detection; overcurrent, overvoltage, undervoltage, surge, contact and temperature fault protection
Operation	Indicator	LED
	Control	Dedicated web app (via QR code)
Standards	Applicable standards	IEC 61851-1, IEC 61851-21-2
	Certifications	CE
Storage / Packaging	Storage temperature	-30°C to +85°C
	Package dimensions / weight	500 x 520 x 200 mm, 7.9kg
Mounting	Mounting method	Wall or surface mounting (optional pole)
	Mounting height	At least 900 mm from floor to lower edge

Overall Dimensions

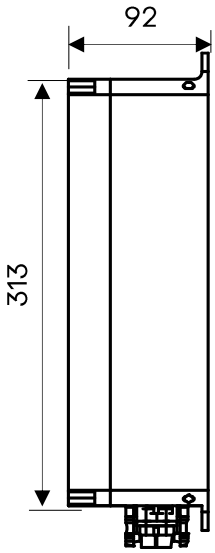
Unit: mm



Front



Side

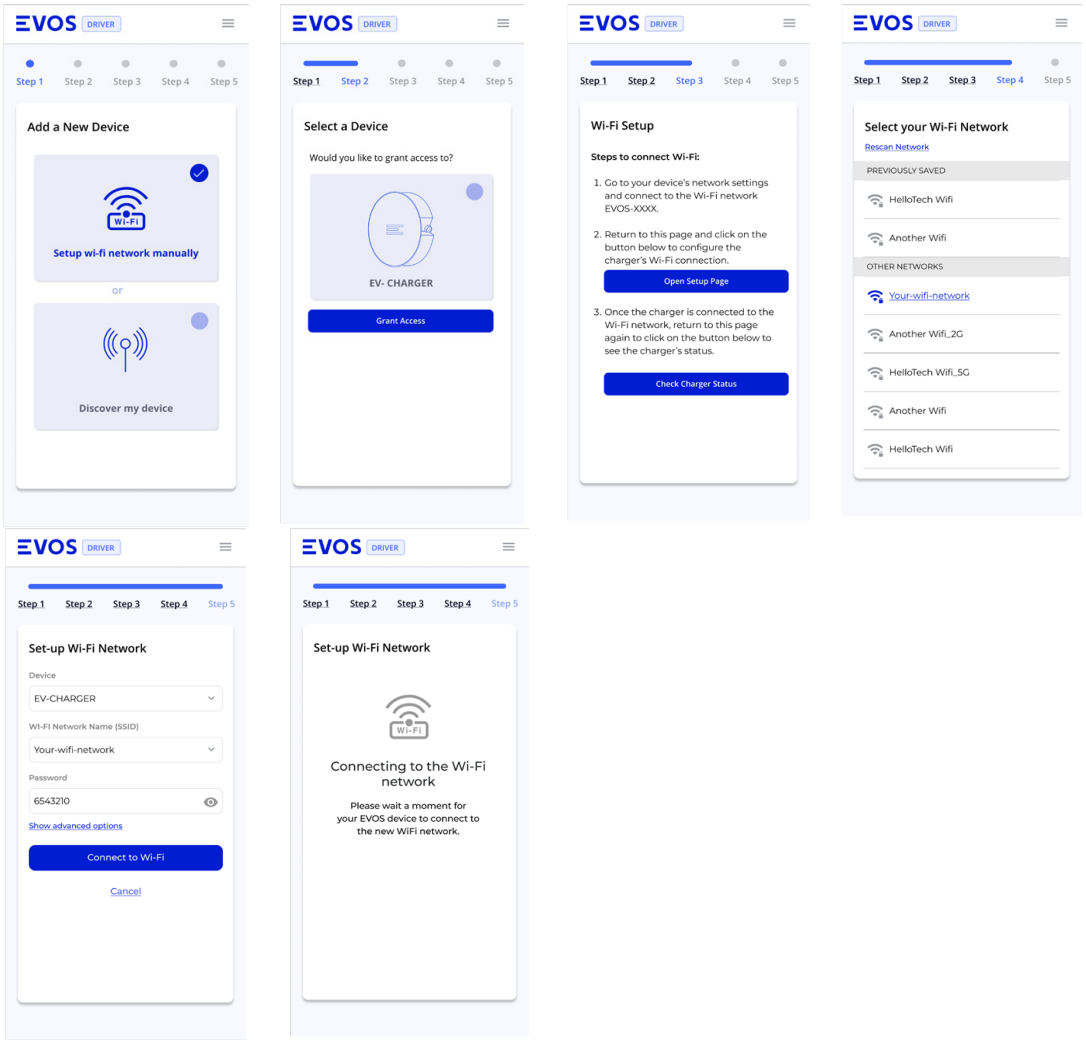


Inner enclosure box details: front and Side view

Wi-Fi Setup

To use My EVOS smart features, the charger must be connected to the internet.

1. Make sure the charger is powered on.
2. Open Wi-Fi settings on your smartphone or computer and select the charger's Wi-Fi network. Its name is "serial number–serial number" (e.g., Ap for: 000001).
3. When the Wi-Fi setup screen appears, select your home or site Wi-Fi network and enter its password.
4. After connecting, check the charger's communication status.
   Note: Your smartphone may display "No Internet Connection" while connected to the charger's setup Wi-Fi. This is normal during setup.



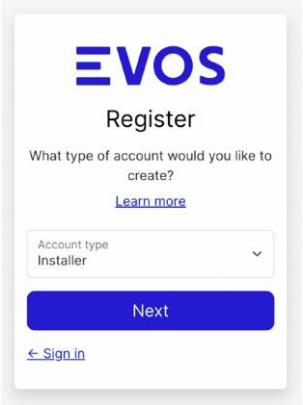
If the charger cannot connect to Wi-Fi, the app displays "Unable to connect to Wi-Fi" and the charger LED flashes alternately cyan and white. Check that Wi-Fi is enabled and the credentials are correct, then repeat setup from Step 1.

MyEVOS App Registration

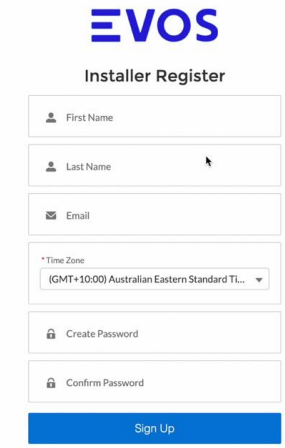
Scan the QR code on the charger's body with your smartphone to open the EVOS app and sign in or register.

If the QR code does not work, enter the following URL in your browser:
https://evos.app/c/[serial number] (the serial number is printed on the Activation ID card).
Example: For serial number 123456, use
https://evos.app/c/123456.https://evos.app/c/123456

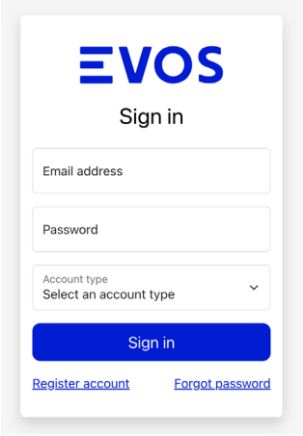
(1) To sign in as a driver, enter your username and password and select "Sign In" to access the My EVOS app.



(2) If you do not have a driver account, select "Register" and complete the form. Check your inbox for the confirmation email sent to your registered address.



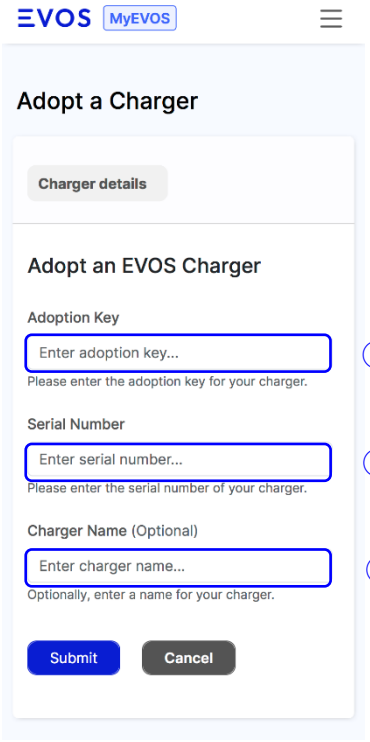
(3) If need to reset your password, select "Forgot Password" and follow the instructions.



Adopt Your Charger

(1) Sign in, open the menu in the upper-right corner, and select “Adopt a Charger”.

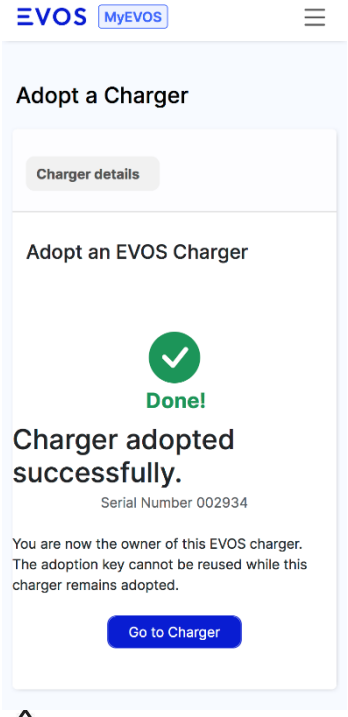
(2) On the charger adoption page, enter the following information:



1. Activation ID
   (See the Activation ID card.)
2. Charger serial number
   (See the rating label or Activation ID card.)
3. Charger name (optional)

(3) After entering the information, select “Submit”.

The following screen appears when registration is successful.



⚠ If registration fails, please contact us.

Charging Your Vehicle

1. Check that the EVOS Pro status LED is white.
2. Prepare your vehicle for charging according to its instructions (unlock the inlet, open the charging door, remove the inlet cover, etc.).
3. Remove the charging cable connector from the plug holder.
4. Check the charging cable and connector for damage or dirt.
5. Insert the connector fully into the vehicle charging inlet.
6. The vehicle locks the connector in place. Locking behavior varies by vehicle; consult the vehicle owner's manual.
7. When the charging session starts, the LED indication changes:
    a. Blue: Charging.
    b. Slowly flashing blue: Paused or waiting for authorization.
    c. Slowly flashing green: Vehicle not ready. Check the vehicle for details.
8. When charging is complete, unlock the vehicle charging inlet as instructed by the vehicle manufacturer.
9. Remove the connector from the vehicle inlet without applying excessive force.
10. Wrap the cable once counterclockwise around the charger housing and refit the connector to the plug holder.
11. Check that the EVOS Pro status LED is white.
12. Complete any vehicle-specific steps (replace the cover, close the charging door, etc.).

Charger Status Indicators

The EVOS Basic status LED indicates charger status as follows.



White
Charger available



Slow flashing blue
Paused or awaiting authorization



Blue
Charging



Red
Charger fault



Slow flashing red
Charger unavailable



Slow flashing green
Vehicle not ready. Check the vehicle.



Flashing cyan/white
Charger not connected to the internet



Flashing green/white
Disconnect the charging cable from the vehicle



Flashing red/purple/white/green
Charger restarting after reset



Flashing purple/cyan
Downloading firmware update



Fast flashing blue
Charging paused



In app: White loading spinner
The EVOS app is sending a start, pause, or resume command.

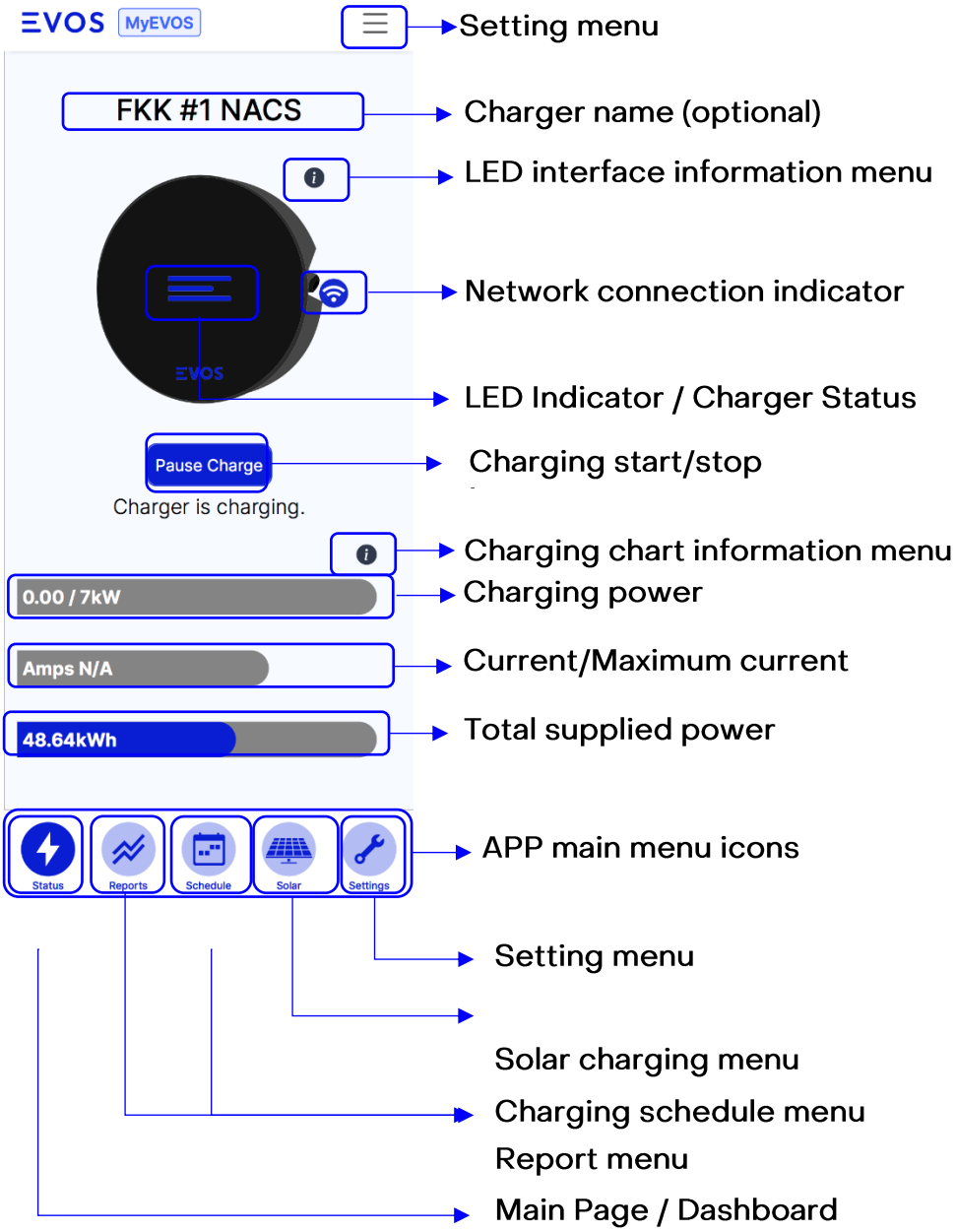
Troubleshooting

PROBLEM	CHECKS AND SOLUTIONS
Cannot connect to wi-fi (network is visible but connection fails)	If internet connection fails, the LED alternates cyan and white. Check Wi-Fi settings and internet access. Stay within 10 m of the charger. Switch off power, wait 15 seconds, and restart. After 2–3 minutes, the charger-hosted Wi-Fi network should appear when the LED indicates setup mode. This network remains available for 15 minutes.
Cannot access charger wi-fi setup page	Select the Wi-Fi network named “AP for:serial number” (e.g., AP for: 000001). Confirm your device is connected to the charger access point. The setup page normally opens automatically. Otherwise visit: http://evoswifi.setup/index.html or scan the QR code below:
After Wi-Fi setup The charger fails to connect to Wi-Fi.	If the Wi-Fi connection fails, perform a hard reset by switching off the power supply to the charger and switching it back on. Once the charger has restarted, repeat the Wi-Fi setup procedure from the beginning.
The charger cannot connect to the internet or appears offline in the cloud.	Network security settings, such as a UTM (Unified Threat Management) system or firewall, may be blocking the charger's communication. Contact your network administrator and ensure that outbound UDP traffic on port 51820 is allowed. This port is used for the VPN connection between the charger and the cloud.

Home wi-fi network doesn’ display	Check that Wi-Fi is enabled and properly configured; test internet access on another device. Select “Rescan Networks” under “Select Wi-Fi Network”. Confirm that 2.4 GHz Wi-Fi is enabled and that SSID and password are correct. Contact your network administrator if necessary.
Led keeps flashing after closing setup	Wait several minutes for the LED to turn steady white. Check the password and try another device if needed. Restart the charger and repeat Wi-Fi setup from Step 1.
Led flashes cyan and white	After a power outage or extended network interruption, the charger may not reconnect. Switch off the charger, wait 15 seconds, and switch it back on.
Charging does not start	Check vehicle connection, charging schedule, and vehicle charging settings.
Led is solid red	A charger fault has occurred; a firmware update may have failed. Switch the upstream breaker off for at least 10 seconds, then on. If the led remains unchanged, stop using the charger and contact the dealer or installer.
Charging power is low	Check the vehicle’s maximum ac charging acceptance, configured current limit, and any EMS power limit.
Charger does not display in MyEVOS app	Check the account, charger registration, and internet connection.
Charging schedule does not work	Check time, days of the week, time zone, and vehicle-side schedules.
Charging stops unexpectedly	Check vehicle settings, charging schedules, EMS settings, and any error indication.

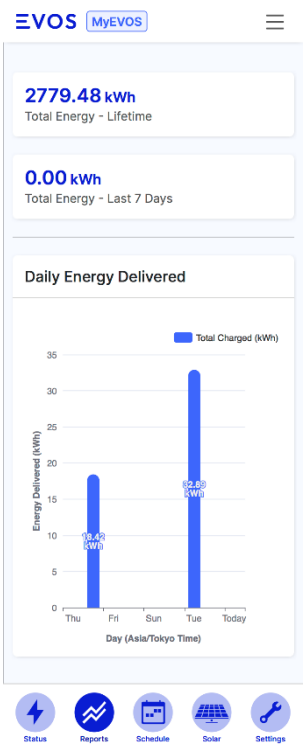
Using the My EVOS App

The main functions of the My EVOS app are described below.



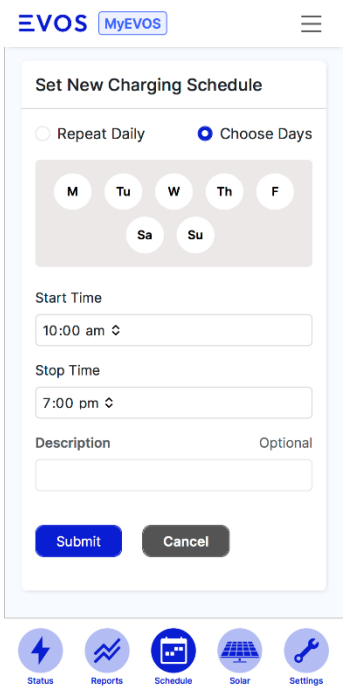
The four main My EVOS menus are described below.

Reports
Energy monitoring and graphs



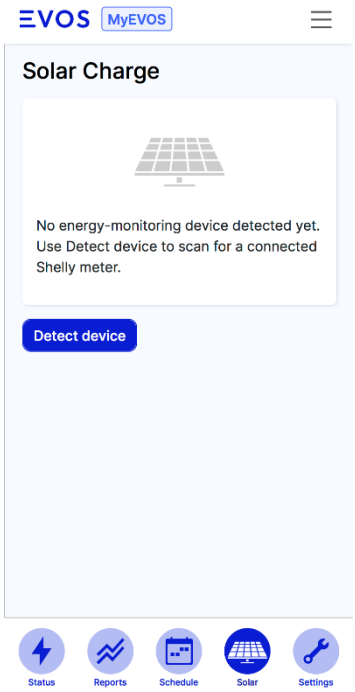
View charging history, energy consumption, and usage.

Schedules
Set charging schedules



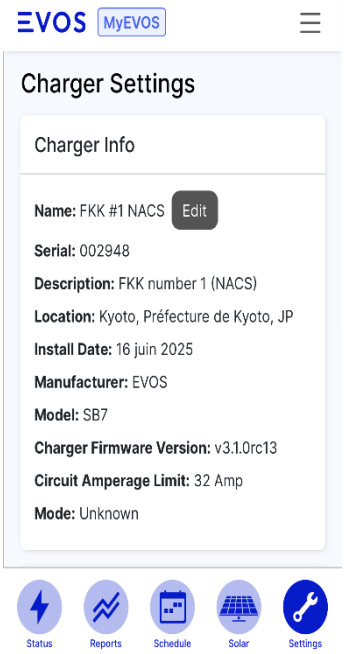
Set charging times and days of the week.

Solar
Solar and EMS setting



Connect compatible energy meters to configure solar-powered charging control.

Settings
Edit charger name, current limit, etc.



View or change charger name, user settings, current limit, LED brightness and authentication mode.

Maintenance

Cleaning:

- Wipe dirt away using a soft towel, cloth or sponge dampened with water and thoroughly wrung out.
- Remove foreign matter or dust from the charging connector terminals using an air duster or similar method.
- Remove accumulated snow.
- Do not clean with high-pressure water. Damage may result.
- Do not use scouring pads, abrasives, alcohol, benzine or other solvents. Damage may result.
- Do not use wax or car shampoo. Damage may result.

Routine and periodic inspection:

For safe use, perform the following checks regularly.

If a defect is found or repair/replacement is needed, contact us.

Routine inspection (before each use)

- Check the charging connector for cracks or chips.
- Check the charging cable for cracks or excessive twisting.
- Check the charging connector for mud or dust.
- Check that the status LED operates normally.

Periodic inspection (once per year)

- Inspect the charging cable and replace it if damaged or severely twisted.
- Check for damaged parts.
- Check that the charger is not tilted.

Charging connector

- The charging connector has a limited service life and must be replaced periodically, typically after approximately 10,000 mating cycles.
  Actual lifetime depends on frequency of use, operating conditions and environment.
- Cable assemblies must be replaced by EVOS, its authorized representative or a qualified person.

Revision History

#	Revision content	Date	Author
1	Version UM- FH-22-3P-T2-5-0-V1.0EN issued	2026.01.15	M.S
2			
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Specifications and appearance may change without notice as part of continuous product improvement.

Contact Information

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