

***Qoltec***<sup>®</sup>



# **INSTRUCTION MANUAL**

## **EV 2IN1 CHARGING STATION TYPE 2 22KW**

**Model: 52432**

## **INTRODUCTION**

Thank you for your trust and for purchasing our product. We have made every effort and are confident that the product will meet your expectations.

This manual contains important information regarding the safety and operation of the appliance. If you have any questions after reading this manual, please contact NTEC Ltd.

## **SAFETY INFORMATION**

- Protect from rain - use in covered areas.
- Do not immerse the control module in water.
- Do not trample, pull, kink or bundle the cable.
- Do not drop the control module or place heavy
- When charging, do not place the device near sources of high temperature.
- Do not place the device in a car or in an enclosed space while charging.
- Do not use the device at temperatures exceeding its operating range and - 30 ° C to +50 ° C.

Only use the charger if the power supply network is equipped with a residual current circuit breaker.

- Do not attempt to repair it yourself in the event of a fault.
- Do not use the device if the cable is damaged.
- The unit is designed for charging electric vehicles only.
- Do not use the appliance with an additional extension cord.
- Do not sneak your fingers into the charging connector.
- If the device does not work, contact your dealer for repair or replacement.

## **PRODUCT DESCRIPTION**

*Figure 1*

LED Charging Indicator

LCD Screen: 4.3 inch Charging Status Display - 4.3 inch LCD screen - charging status display

EV Charging Holder - EV charging plug holder

EV Charging Plug - Plug for charging an electric vehicle

TPE/TPU Cable - Cable with TPE/TPU insulation

Shell: Al + TP - Housing: aluminium + plastic

Wall End Wire - Wire for connection to wall installation

## FEATURES

1. Features card start and remote start and stop and is equipped with a rechargeable IC card.
2. Charging function with reservation - can be set to charge according to the user's needs, automatic termination when fully charged.
3. Equipped with LCD display - allows real-time display of charging information and expected completion time.
4. The product has undergone proper inspection to ensure the highest safety standards during charging for you and your car.
5. It has protection against: overload, overvoltage, under-voltage, short circuit, overheating, emergency stop and other protective functions.
6. Temperature monitoring : The temperature sensor monitors the operating temperature of the charger in real time. If it exceeds a safe temperature, the charger will immediately stop operation. Once the temperature returns to normal levels, the charger will automatically resume operation.
7. Automatic error repair : Intelligent chip automatically corrects common charging errors to ensure stable product operation.
8. Durable housing : Made of polycarbonate, the housing is strong and reliable, internal strength test.
9. Optional wall mounting.
- 10.5m cable length.

## INSTALLATION STEPS

1. Drill holes using the drilling template.
2. Drive the M6.0 expansion sleeves into the holes in the wall.
3. Use a screwdriver to attach the M4.0 self-tapping screws to the mounting plate on the wall.
4. Mount the charging station (charging saw) on the mounting plate fixed to the wall.
5. Secure the anti-theft screw on top of the charging station and place the socket in position.

*Figure 2*

### **Specification for the electrical box at the entrance:**

1. The distribution box at the entrance of each AC charging station should be equipped with a residual current circuit breaker rated at not less than 40A.
2. A suitable overcurrent circuit breaker (molded case type) shall be selected according to the current of the AC charging station (32A required for a single station).
3. The power cables for the charging stations (between the circuit breakers and the stations) must have a minimum current capacity of 32A. A single-phase power supply is recommended. Recommended voltage range: AC230V  $\pm$ 10%.
4. For 50Hz power supply, 6mm<sup>2</sup> copper conductors should be used. When installing the station, ensure that the PE (protective) conductor is correctly earthed.

### **ADDITIONAL INFORMATION FOR SAFE USE**

1. Do not place flammable materials, explosives, chemicals or other hazardous substances near the unit.
2. Keep the charging connector clean, if it is dirty, wipe it with a clean dry cloth, do not touch the metal pins in the connector with your hand. Make sure the charger is not connected to the power supply or the device.
3. Do not use the charger if the cable is damaged, cracked, worn or has an exposed core. If you notice the above abnormalities, contact your dealer.
4. Do not attempt to disassemble, repair or upgrade the charger yourself. Incorrect handling may result in damage to the equipment, loss of leakage, current leakage, etc.
5. In the event of any abnormality during use, cut power immediately.
6. Use the charger under a canopy during precipitation. Protect from rain and snow.
7. Children must not use or approach the device while it is charging, due to the possible risk of injury.
8. It is strictly forbidden to unplug the charging plug from the socket without authorisation during the charging process, due to the risk to vehicle or user safety.
9. Vehicles must not move during charging. Charging may only be carried out when the vehicle is stationary. This applies to all vehicle types.

## WIRING INSTRUCTIONS

Method 1:

If a distribution box is used, the L, N and PE ends of the power supply cable must be connected to the L, N and PE ends of the overcurrent circuit breaker respectively.

Illustration 3

Method 2:

If a connector is used, both ends of the wires must be connected. Make sure that L, N and PE correspond to each other. Crimping with tools (e.g. crimping pliers) ensures good contact at the connection point.

Illustration 4

## CHARGING TIPS

1. Make sure that the charging station (charging pile) is correctly connected to the power supply.

*Illustration 5*

2. Insert the charging plug into the vehicle's charging socket.

*Illustration 6*

3. Use your proximity card or app to start charging.

*Illustration 7*

4. Click in the app or reattach the card to complete charging.

*Figure 8*

5. Disconnect the charging plug.

*Figure 9*

6. Put the charging plug back in place.

Figure 10

LED indicator table

<b>Charger status indicator</b>	<b>Charger status</b>
Blue light	Electric vehicle not connected
Green light	Charging complete
Coloured light	Charging
Red light	Error

Figure 11

## TECHNICAL SPECIFICATIONS

<b>PARAMETER</b>	<b>VALUE</b>
OPERATING VOLTAGE	220V AC - 480V AC (L1+L2+L3+N+PE)
FREQUENCY	50Hz / 60Hz
NOMINAL POWER	22 kW - 11 kW - 7 kW (AC)
INGRESS PROTECTION CLASS	IP54
<b>WORKING ENVIRONMENT</b>	
WORKING TEMPERATURE	-25°C to +45°C
WORKING HUMIDITY	5% - 95% RH
COOLING	Natural air cooling
<b>DISPLAY FUNCTIONS</b>	
PARAMETERS DISPLAYED	Charging voltage, charging current, energy quantity, error code
<b>PHYSICAL DIMENSIONS</b>	
HOUSING SIZE	250 × 250 × 100 mm
MOUNTING	Pole mounting (on the floor) or wall mounting (optional)

## TROUBLESHOOTING

**In the event of an error (Error A, Error B... Error H) during charging, first familiarise yourself with the possible causes and check the recommended solutions, then contact the NTEC sp. z o.o. service department.**

<b>Error code</b>	<b>Safety functions</b>	<b>Recommended solution</b>
Error - A	<b>Protection against overheating</b>	<ol style="list-style-type: none"> <li>1 Check that the current mode is correct.</li> <li>2. disconnect the electric vehicle's charging plug and the power plug, then try again after the charger has cooled down. If still error occurs, contact your dealer.</li> </ol>
Error - B	Short circuit protection (CP)	<ol style="list-style-type: none"> <li>1. disconnect the EV charging plug and the power plug, then reconnect the power plug.</li> <li>2) If Error - B does not appear on the LCD screen, there is a CP short circuit on the car side.</li> <li>3. if Error - B still appears on the LCD screen, contact your dealer.</li> </ol>
Error - C	Overvoltage protection	<ol style="list-style-type: none"> <li>1 Check that the supply voltage does not exceed the protective voltage (for GB/T and Type 1 and Type 2 it should not exceed 275V).</li> <li>2. if the supply voltage is too high, wait until it returns to normal.</li> <li>3. if the voltage is stable but the charger still displays the -C error, contact sales support.</li> </ol>
Error -D	Under-voltage protection	<ol style="list-style-type: none"> <li>1 Check that the supply voltage exceeds the protection value: for GB/T and Type 1 and Type 2 it should not be lower than 85V.</li> <li>2) If the supply voltage is too low, wait until it returns to normal.</li> <li>3. if the voltage is stable but the charger still shows the -D error, contact sales support.</li> </ol>
Error -E	Ground protection	Check that the earth wire is connected.

Error - F	Short circuit protection	<p>Disconnect the EV charging plug and the power plug, then reconnect the power plug.</p> <p>2. if Error - F does not appear on the LCD screen, there is a short circuit on the car side.</p> <p>3. if Error - F still appears on the LCD screen, contact your dealer.</p>
Error - G	Leakage protection	<p>1. disconnect the EV charging plug and the power plug, then reconnect the power plug.</p> <p>2) If Error - G does not appear on the LCD screen, there is a leakage current on the car side.</p> <p>3. if Error - G still appears on the LCD screen, contact your dealer.</p>
Error - H	Other	Contact your dealer

## APPLICATION DOWNLOAD

Figure 12

**Step 1: Scan the QR code to go to the app shop and download the app: Smart Life**

**Step 2: Click on the link**

**Step 3: Click to download and install**

Figure 13

## ADDING A DEVICE

**(Mobile application version)**

Illustration 14

## **Entering the application**

Illustration 15

**Step 1: Click to enter the application**

## **Adding a device**

**Step 2: In the top right corner, click "+" and select "Add device"**

## **Access rights**

**Step 3: Allow the app to access your phone**

## **Searching for a device**

**Step 4: The first connection to the device requires the phone and device to be on the same Wi-Fi network**

## **APPLICATION FUNCTIONS**

*Figure 16*

**(Mobile version)**

**Charging : Swipe right to the bottom of the screen and activate charging**

*Figure 17*

**Charging history : View previous charging records**

**Time setting : Select a scheduled charging time**

**Current adjustment : Swipe up and down to set the charging current**

**Share app : Share the link to the app with your family via WhatsApp, LINE, WeChat or SMS**

**User management : Ability to disconnect and remove the charging device from the app**

## **MAINTENANCE**

1. Keep the charger clean by using a soft, dry cloth to remove dust and dirt. Do not use chemicals.

2. Regularly check power cords and connectors for damage such as abrasions, cracks or loose connections.
3. Make sure vents are clean and not blocked to ensure adequate cooling.
4. Avoid contact with water or other liquids to prevent electrical damage.

## **DISPOSAL**

This product is subject to the regulations for the disposal of electrical and electronic equipment (WEEE). Take it to an electro-waste collection point that provides safe recycling in accordance with GPSR standards. Check where the nearest electro-waste collection points are located. If you have any questions about disposal, contact the manufacturer or an authorised service centre.

## **WARRANTY AND SERVICE INFORMATION**

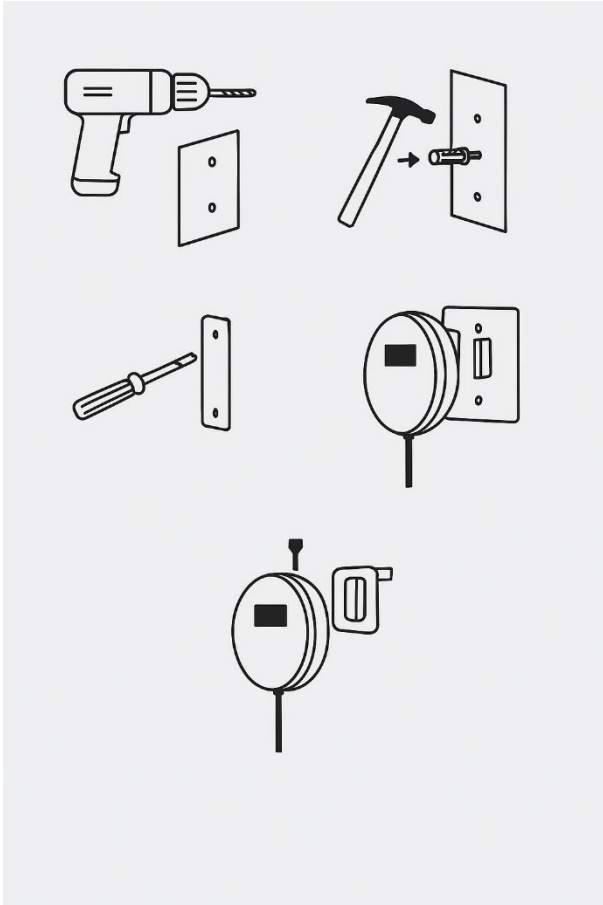
The product is covered by a 24-month manufacturer's warranty from the date of purchase. The warranty covers any defects in materials and workmanship. Please contact our service department in case of any problems with the device to ensure a fast and professional service. The warranty does not cover damage resulting from misuse, falls, mechanical damage, unauthorised repairs or disassembly attempts.

1

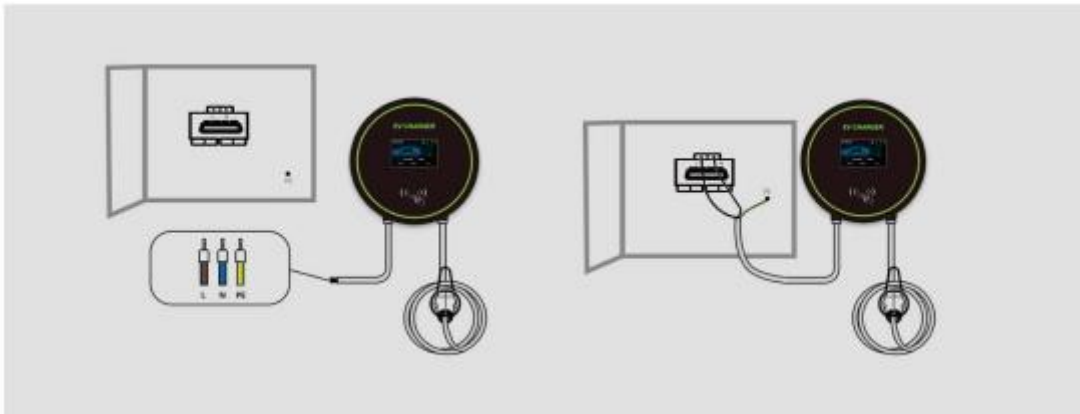
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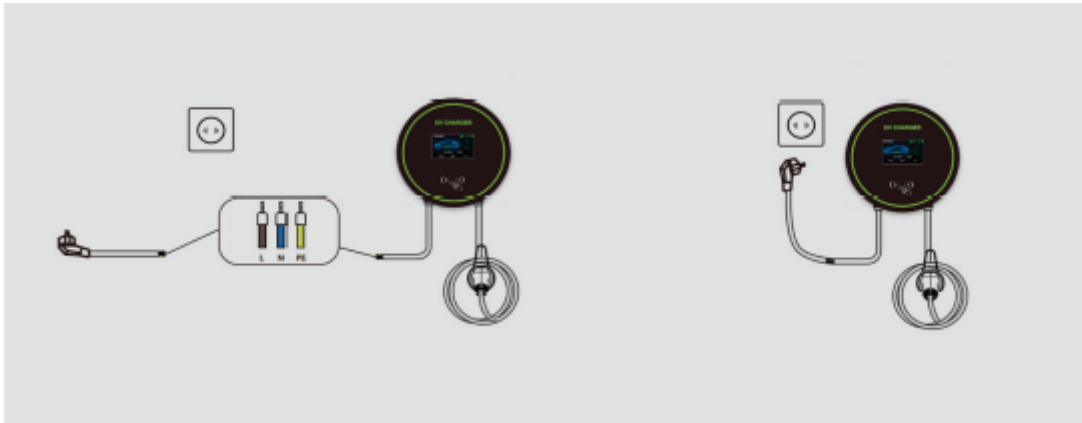
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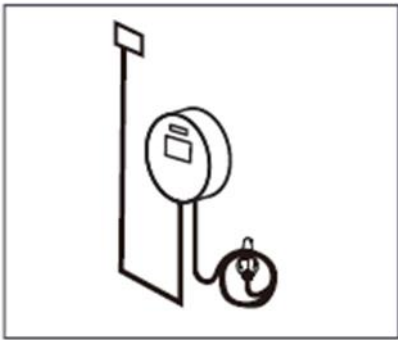
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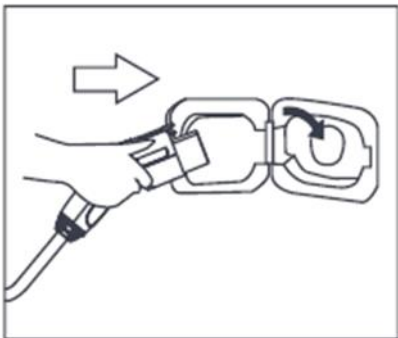
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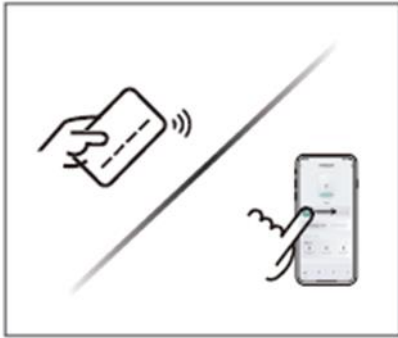
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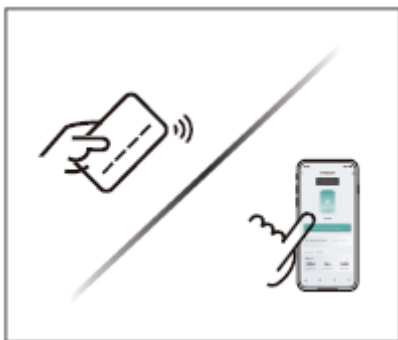
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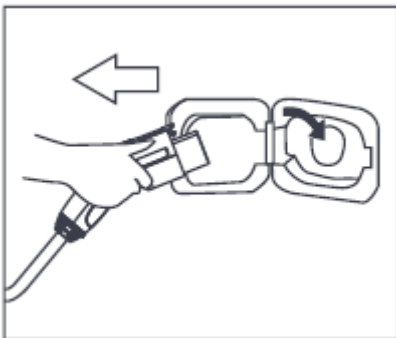
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11



12



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14





17

