

Qoltec®



INSTRUCTION MANUAL

EV 2IN1 CHARGING STATION TYPE 2 22KW

Model: 52431

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 ad - 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 fitted 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, 6mm² 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 plugged into a power supply or 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

Charger status indicator	Charger status
Blue light	Electric vehicle not connected
Green light	Charging complete
Coloured light	Charging

Red light	Error
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Figure 11

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
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
WORKING ENVIRONMENT	
WORKING TEMPERATURE	-25°C to +45°C
WORKING HUMIDITY	5% - 95% RH
COOLING	Natural air cooling
DISPLAY FUNCTIONS	
PARAMETERS DISPLAYED	Charging voltage, charging current, energy quantity, error code
PHYSICAL DIMENSIONS	
HOUSING SIZE	220 × 130 × 385mm
MOUNTING	Pole mounting (on the floor) or wall mounting (optional)

TROUBLESHOOTING

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

Error code	Safety functions	Recommended solution
Error - A	Protection against overheating	1 Check that the current mode is correct. 2. disconnect the electric vehicle's charging plug and the power plug, then try again after the charger has

		cooled down. If the error still occurs, contact your dealer.
Error - B	Short circuit protection (CP)	1. disconnect the EV charging plug and the power plug, then reconnect the power plug. 2) If Error - B does not appear on the LCD screen, there is a CP short circuit on the car side. 3. if Error - B still appears on the LCD screen, contact your dealer.
Error - C	Overvoltage protection	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). 2. if the supply voltage is too high, wait until it returns to normal. 3. if the voltage is stable but the charger still displays the -C error, contact sales support.
Error -D	Under-voltage protection	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. 2) If the supply voltage is too low, wait until it returns to normal. 3. if the voltage is stable but the charger still shows the -D error, contact sales support.
Error -E	Ground protection	Check that the earth wire is connected.
Error - F	Short circuit protection	Disconnect the EV charging plug and the power plug, then reconnect the power plug. 2. if Error - F does not appear on the LCD screen, there is a short circuit on the car side. 3. if Error - F still appears on the LCD screen, contact your dealer.
Error - G	Leakage protection	1. disconnect the EV charging plug

		and the power plug, then reconnect the power plug. 2) If Error - G does not appear on the LCD screen, there is a leakage current on the car side. 3. if Error - G still appears on the LCD screen, contact your dealer.
Error - H	Other	Contact your dealer

SMART EV CHARGER SYSTEM SOFTWARE

Setting up the user card

Figure 12

1. Connect the card reader to the USB port of the computer
2. Open the card system on the computer and set the user card type

User cards can be configured using the card reader to manage the charging stations:

Amount card:

Amount recharge card - recharge can be unlimited. Once the balance has been used, the card will be suspended or can be recharged.

Time card (Date card):

Used within a specific date range. Unlimited number of uses and powers.

Power card (Power card):

Sets the amount of electricity. When it is used up, the card is suspended or can be recharged.

Quantity card (Times card):

Sets the number of uses - an unlimited amount of power can be used each time.

MAINTENANCE

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

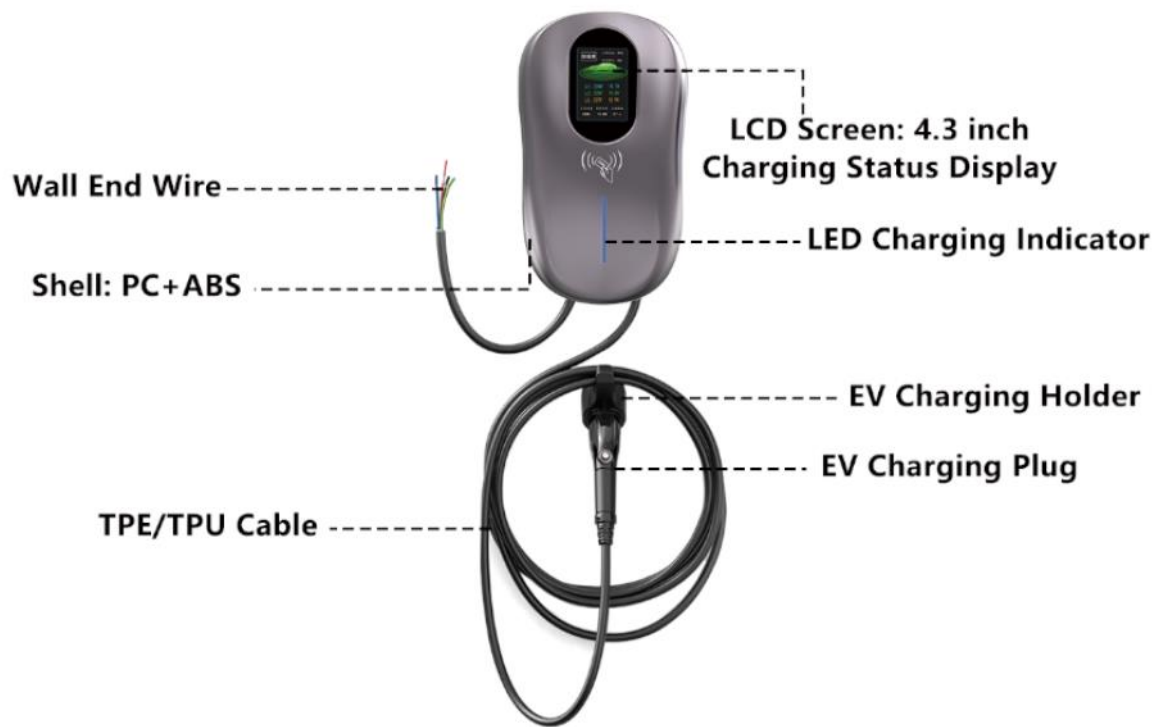
DISPOSAL

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.

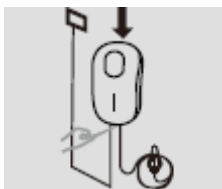
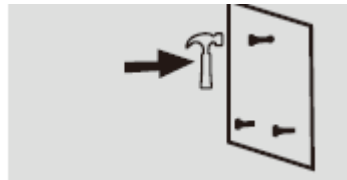
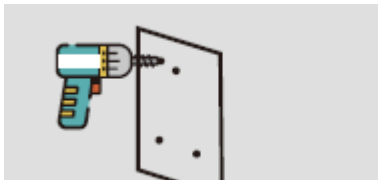
WARRANTY AND SERVICE INFORMATION

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.

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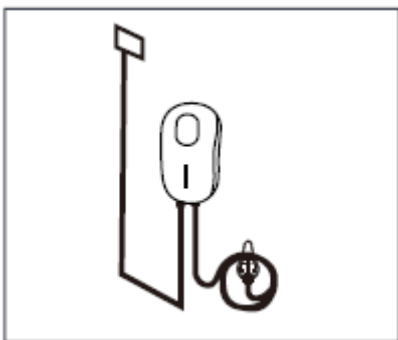
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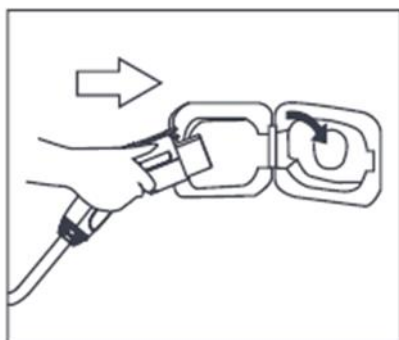
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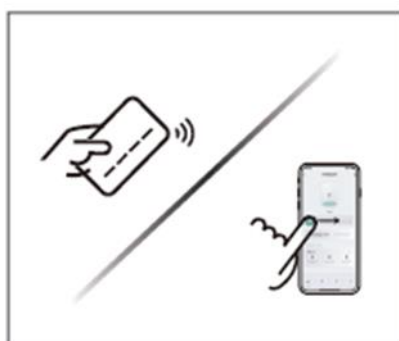
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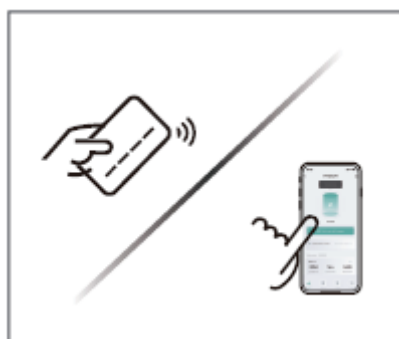
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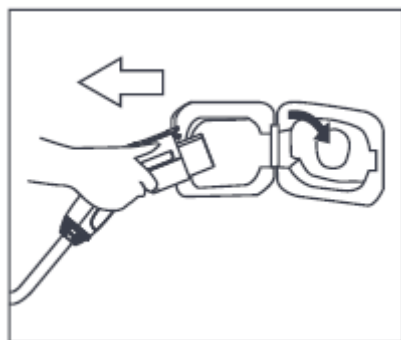
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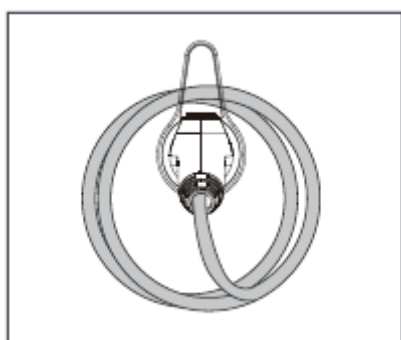
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