

Qoltec[®]



USER MANUAL

EV 2-in-1 Type 2 Charger with LCD

Model: 52720, 52721, 52435, 52436,
52437

Introduction

Thank you for your trust and for purchasing our product. We have made every effort to ensure that this product meets your expectations.

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

Installation requirements and safety guidelines for the EV charger

Note: Installation must be carried out in accordance with the local electrical regulations in force in the country of installation and by a suitably qualified person.

Before installing the charger, it is essential to check the condition of the existing installation. For the charger to operate safely, reliably and in accordance with its specifications, the electrical installation must be properly prepared.

Before commissioning the installation, the installer should verify the effectiveness of the electric shock protection, the continuity of the protective conductor, the earthing parameters and the correct operation of the safety devices.

The manufacturer is not liable for the consequences of incorrect installation.

Installation requirements

1. The installation and connection of the charger must be carried out by a qualified electrician. Incorrect installation may result in damage to the device or a risk to life.
2. The EV charger should be connected to a separate, dedicated electrical circuit. It should not be connected to a circuit shared with other high-power devices.
3. In the event of an unstable mains supply, surge protection is essential – failure to use it may result in damage to the charger. It is recommended to use surge protection devices (SPDs) in the power supply system,

particularly in areas prone to mains instability, lightning strikes or frequent voltage spikes.

4. Do not use extension leads, splitters, adaptors or uncertified adaptors. The charger should only be connected to an installation that complies with local regulations and the device's specifications.
5. Check the terminals in the distribution board, cable connections and the condition of the contacts, and ensure there is no play or signs of overheating.
6. Take into account the risk of voltage drops – if the cable run is too long or the cable cross-section is incorrectly selected, these can cause slower charging, interruptions to the charging session, device errors and excessive heating of the installation.
7. Before installation, verify the mains supply parameters – in particular, that the voltage complies with the charger's requirements, the number of phases, the correct phase sequence and presence of phases, and voltage stability under load; in three-phase installations, additional consideration must be given to the risk of phase imbalance, the loss of one of the phases, and the occurrence of excessively low or high voltage on individual phases.
8. The charger should not be installed in areas at risk of flooding, on damaged or unstable surfaces (walls or poles), near heat sources, or in places where the cable or plug may be exposed to mechanical damage.

The manufacturer/supplier accepts no liability for malfunctions of the device resulting from:

1. inadequate condition of the electrical installation,
2. lack of the required safety measures,
3. incorrect earthing,
4. voltage fluctuations outside the permissible range,
5. installation not in accordance with the instructions and local standards.

Safety precautions

1. □ Protect the device from rain and moisture – use only in covered areas; do not immerse the control module in water.
2. □ Do not tread on, pull, bend or tie the cable, and do not use the device if the cable is damaged.

3. Do not drop the control module or place heavy objects on it.
4. Do not use the device near sources of high heat or outside the operating temperature range of -30°C to +55°C.
5. Do not place the device in a car or in a closed, unventilated space whilst charging.
6. The device may only be used in an installation equipped with a residual current device (RCD).
7. Do not insert your fingers or any objects into the charging port.
8. Do not use extension leads or additional adapters.
9. The device is intended solely for charging electric vehicles.
10. In the event of a fault, do not attempt to repair the device yourself – contact your retailer or a service centre.

Technical specifications

Model		52720	52721
Input	Number of phases	Three	One
	Frequency	50Hz/60Hz	
Charging current adjustment		8A/10A/13A/16A	13A/16A/20A/24A/32A
Plug		CEE16A	CEE32A
Output	Current	16A max	32A max
	Power	11kW	7kW
	Voltage	230–400 V	230V
Conditions	Operating temperature	-30°C to +55°C	
	Humidity	5%–95%	
Charging interface		IEC 62196-2	
Cable length		5m	
Protections	Overvoltage/undervoltage protection, Temperature protection Overcurrent protection, leakage current protection Earth fault protection		
	Ingress protection	IP66	

Model		52435	52436	52437
Input	Number of phases	One	Three	Three
	Frequency	50Hz/60Hz		
Charging current adjustment		8A/10A/ 13A/16A	8A/ 10A /13A /16A	13A/16A/20A/24A/ 32A
Plug		Schuko 16A	CEE 32A	CEE 32A
Output	Current	16A max	16A max	32A max
	Power	3.5 kW	11 kW	22 kW
	Voltage	230V	230V– 400V	230V–400V
Conditions	Operating temperature	-30°C to +55°C		
	Humidity	5%–95%		
Charging interface		IEC 62196-2		
Cable length		5m	5m	7m
Protection	Overvoltage/undervoltage protection, Temperature protection			
	Overcurrent protection, earth leakage protection			
	Earth fault protection			
	Protection rating	IP66		

Features

1. Temperature monitoring

The temperature sensor monitors the charger's operating temperature in real time. If it exceeds the safe temperature, the charger will immediately stop

working. Once the temperature returns to normal, the charger will automatically resume operation.

2. Automatic error correction

A smart chip automatically corrects common charging errors to ensure stable operation of the product.

3. Safety

The product has undergone rigorous testing to ensure the highest safety standards during charging for you and your car.

4. Durable housing

5. Current regulation (depending on the model)

6. “Smart Life” and Tuya apps

7. 5m cable

Usage information

1. When charging in 16A mode, use a socket with a current rating of at least 16A. If you are using a standard 10A socket, set the current mode to no more than 10A. If the charger is damaged due to an incorrect current mode setting for the power socket, the warranty will not apply.
2. Do not place flammable or explosive materials, chemicals or other hazardous substances near the device.
3. 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 hands. Ensure that the charger is not connected to the mains or to a device.
4. Do not use the charger if the cable is damaged, cracked, worn or has an exposed core. If you notice any of the above issues, contact your retailer.
5. Do not attempt to dismantle, repair or modify the charger yourself. Incorrect handling may result in damage to the equipment, loss of insulation, current leakage, etc.
6. In the event of any abnormalities during use, disconnect the power supply immediately.
7. During adverse weather conditions, use the charger under cover. Protect it from rain and snow.
8. Children must not use or approach the device whilst it is charging, due to the risk of injury.

9. It is strictly forbidden to remove the charging plug from the socket without authorisation whilst charging, due to the risk to the safety of the vehicle or the user.

10. Vehicles must not be moved whilst charging. Charging may only be carried out when the vehicle is stationary. This applies to all types of vehicles.

Charging guidelines

1. Ensure that the electrical installation is fitted with a Type B residual current device (RCD).
2. Connect the charger to the charging point.
3. Set the desired current.
4. Connect the charging cable to the vehicle.
5. When finished, disconnect the device from the vehicle first, then from the socket.

Note: Please note the order: first set the current, then connect the device to the vehicle!

How do I start charging?

1. Insert the plug firmly into the mains socket.
2. Press the button on the charger (*Figure 1 in the appendix*) to switch the charging current mode. Select the current – 4 modes (8A / 10A / 13A / 16A) or 13A/16A/20A/24A/32A
3. Gently pull the cap and fully insert the charging plug into the vehicle's socket

Make sure the charging plug is fully inserted until you hear a click.

4. The device will start charging.

NOTE: You cannot adjust the current during charging.

Disconnect the connector from the vehicle before changing the settings.

Setting the current

1. Press the button (*Figure 2 in the appendix*) -> Switch the current current mode

2. The mode can be activated by pressing the button when the charger is switched on and no vehicle is connected to it.

3. The 16A device supports four current modes: 8A, 10A, 13A and 16A.

Current adjustment button:

16A: 4-range current adjustment – 8A / 10A / 13A / 16A

The initial current after connection is 16A.

To select a different charging current, press the current adjustment button.

The current switching sequence is: 16A → 13A → 10A → 8A → 16A

The 32A unit supports four current modes: 13A/16A/20A/24A/32A

Current adjustment button:

32A: 5-range current adjustment – 13A / 16A / 20A / 24A / 32A

The initial current after connection is 32A.

To select a different charging current, press the current adjustment button.

The sequence for switching the current is: 32A → 24A → 20A → 16A → 13A → 32A

How do I stop charging?

1. Press the button and disconnect the charging plug.
2. Close the vehicle socket cover and fit the protective cap onto the charging plug.
3. Unplug the charger from the mains socket.
4. Put the charger in the bag.

* Some car models lock the charging plug when the power is on (switch off the power before removing the charging plug).

Smart Life / Tuya app

How to use the app:

1. Search for the “**Smart Life**” / **TUYA** app on **Google Play** or the **App Store**.
2. You can also scan the QR code to download the app.

3. Once the app is open, tap the '+' icon in the top right-hand corner to automatically search for the device. Make sure you have enabled **Wi-Fi** and **Bluetooth**, then start the search.
4. Enter the Wi-Fi network name and password, wait for the charging device to connect successfully to the internet, and you will then be taken to the app interface with charging information.
5. Once the network is configured, turn on Wi-Fi & Bluetooth and you can add the device.

LED indicators – meaning of colours and operating modes

Figure 3 in the appendix

The charger is equipped with an LED that indicates the current status of the device. The individual colours and lighting modes have the following meanings:

Blue light – steady

The device is switched off or in standby mode.

Blue light – flashing

The charger is switched on and ready for use.

Green light – sequential (running) effect

The vehicle is currently charging.

Green light – steady

The charging process has been completed.

Red light – flashing

An error has occurred – please check the installation, connection or device messages.

LCD Display

The LCD display shows the voltage and the set current.

Smart Life / Tuya app

How to use the app:

1. Search for the “Smart Life” / TUYA app on Google Play or the App Store.
2. You can also scan the QR code to download the app.
3. Once the app is open, tap the “+” icon in the top right-hand corner to automatically search for the device. Make sure you have enabled Wi-Fi and Bluetooth permissions, then start the search.
4. Enter the Wi-Fi network name and password, wait for the charging device to connect successfully to the internet, and you will then be taken to the app interface with charging information.
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Figure 4 in the appendix

Troubleshooting

Ground fault: The charging status LED flashes red twice

Overvoltage: The charging status LED flashes red three (3) times

Undervoltage: The charging status LED flashes red four (4) times

Overcurrent: The charging status LED flashes red five (5) times

Overheating: The charging status LED flashes red six (6) times

Current leakage: The charging status LED flashes red eight (8) times

Device protections

1. Leakage current protection

The device monitors leakage currents and, if an anomaly is detected, immediately stops charging, protecting the user from electric shock and minimising the risk of damage to the installation.

2. Overcurrent protection

The charger monitors current consumption and, if permissible values are exceeded, automatically limits the power or stops operation, preventing the cables from overheating and damage to the electrical installation.

3. Surge protection

In the event of a sudden voltage surge (e.g. mains spikes or lightning strikes), the device protects its components by cutting off the power supply, thereby reducing the risk of permanent damage.

4. Undervoltage protection

If the supply voltage drops below a safe level, the charger suspends operation, preventing unstable performance, charging errors and excessive strain on the system.

5. Temperature protection

The device monitors the operating temperature and, if it is exceeded, automatically reduces the power or interrupts charging, protecting the components from overheating and extending their service life.

6. Earthing

The charger requires the installation to be properly earthed. If a fault is detected in the protective earth (PE) conductor, the device may block the charging process, ensuring user safety.

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 cables and connectors for damage, such as fraying, cracks or loose connections.
3. Ensure that the ventilation openings are clean and unobstructed to ensure proper cooling.
4. Avoid contact with water or other liquids to prevent electrical damage.

Disposal

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

Warranty and Service Information

The product is covered by a 24-month manufacturer's warranty, effective from the date of purchase. The warranty covers all material and manufacturing defects. Please contact our service department in the event of any issues with the device to ensure prompt and professional assistance. The warranty does not cover damage resulting from misuse, drops, mechanical damage, unauthorised repairs or attempts to dismantle the device.

Attachment



2



3



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