



Home EV charger manual

7.4 kW PN. EV32002



Tipo 2 Mennekes

IEC 62196-2



Ver. 1.2 (03/09/21)

Features

Electric Performance

Rated Current and Voltage: 250V AC 32A

- Insulation Resistance: >1000MΩ (DC500V)
- Terminal Temperature Rise: < 50K
- Contact impedance: 0.5 mΩ Max

AC Nominal Input:

- Phases/Lines: 1 phase + neutral+ PE
- Voltage: 230V±10%
- Frequency: 50Hz

AC Nominal Output:

- Voltage: 230V±10%
- Current: 32A
- Power: 7KW

Structure Design

- Housing Material: Plastic PC940
- Installation Method: Wall-mount/Floor-stand
- Wall-mount Bracket: Not necessary
- Charging Outlet: One charging gun(Type 2)
- Cable Length: 4 M
- LED Indicator: Green/Yellow/Red color for different status
- Emergency Stop Button: Yes
- RFID Function: Yes
- RFID Card: 2pcs Mifare card

Environmental Index:

- Operating Temperature: - 30~ + 50°C
- Working Humidity: 5%~95% without condensation
- Working Altitude: < 2000M
- Protection Grade: IP65
- Application Site: Indoor/Outdoor
- Cooling Method: Natural cooling

Security Protection

- Multiple Protection: Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection, Grounding protection, Surge protection, Over/Under temperature protection
- MTBF: 100,000 hours
- Safety Standard: IEC 61851-1:2017, IEC 62196-2:2016
- Warranty: 2 years

Control Box Function

Leakage protection (restart recover).

- Over voltage under-voltage protection (self-checking recover).
- Lightning protection.
- Over current protection.
- Overheat protection.

Charger Cord

Specification: 3G6mm² + 0.5mm²

Meets Standards

IEC 62196-2

Cautions

- DO not put the device in the water.
- DO not step on the cable, do not pull it, do not fold it up and do not know it.
- DO not drop the control unit or put heavy things on it.
- DO not place the charging cable near high-temperature objects.
- DO not place the unit in the car or in a closed room while charging.
- DO not use the device in extreme temperatures (normal operating range (-30°C to +50°C).
- The power supply input cable should have at least 3*6mm² with a standard 32A jack. It is proposed to complete the distribution of electricity by professionals.
- Make sure that the charging plug, the cable and the control box are free from any signs of scratches, rust, cracks, etc.
- DO not charge if the power outlet is damaged, rusted, cracked or loosely connected.
- Before charging, make sure the power plug and outlet are compatible.
- The Green Power LED indicator is always on when the battery is fully charged.

Warnings

- Carefully read these instructions and your vehicle owner's handbook before charging your EV.
- Use only on the mains with fault current circuit breaker.
- DO not use this product if the EV charging cable is damaged.
- For use with EV charging only.
- The product must be grounded.
- DO not use this unit with an extension cord

- or adapter.
- DO not insert any fingers into the charging plug.
- The unit contains no user serviceable parts. DO not try to repair or service the device yourself.
- If the unit does not work properly in accordance with the operating instructions, do not use this unit. Contact your dealer for

- a repair or replacement.
- Use the product under normal away from high temperature erosive materials or ignition source.
- DO not contact metal conductor to prevent electric shock accident.
- Product shell is made of thermoplastic, please do not pound it to avoid reducing performances.

Installation Steps

1. According to the installation illustration, drill 3pcs $\varnothing 6 * 35$ mm holes, and insert the expansion pipe.
2. Insert 2pcs M4 * 32 self-tapping screws into the expansion pipe, and leave 5mm distance.
3. Open the charger's front panel, hang the charger's body to the self-tapping screws, and lock the M4*32 self-tapping screw at the bottom.
4. Through the waterproof joint, connect 3pcs 6mm² power cord to the corresponding input terminals.
5. Close the charger's front panel according to the installation illustration, and lock the M4*8 screw to prevent the charger from theft.

Power On Checking

Check before power on

1. The charger's location should be easy for operation and maintenance.
2. Make sure the power cords are properly connected and installed securely.
3. Ensure the AC input cable's current leakage protection switch type is reasonable.

Check after power on

1. Turn on the leakage protection circuit breaker for AC current input.
2. After the charger is power on, it will self-check for about 30S. The LED indicator will display colors of red, yellow and green in turns for 1S separately.
3. Observe the color status of LED indicator after the self-check. Standby status: Green LED flash, 1S on, 3S off.

Fault status: Red LED always on.

Charging Operation

1. Plug in the charging gun to EV.
2. Start charging by swiping the provided card in the card-swiping area.
3. Stop charging by swiping the card again.
4. Disconnect the charging gun.

Precautions

1. Install the power cords in accordance to the input terminal of L (Live wire), N (Neutral wire), PE (Earth wire) , and do not reverse L and N wires.
2. PE (Earth wire) has to be grounded reliably.
3. After power on, make sure the emergency stop button is in the pop-up status.
4. Make sure the charging gun is free of dirt and water before the charging.
5. Do not put the charger into EV while charging.

Warranty:

Damage caused for the following reasons is not covered by the warranty:

1. Improper handling, installation, use and maintenance by the user.
2. Product falls into the water.

This warranty is for the original purchaser only and is NOT transferable.

PLEASE NOTE: This document includes the latest information at the time of printing. EVplug Chargers, S.L. reserves the right to make changes to this product without further notice. Changes or modifications to this product by other than an authorized service facility could void the product warranty

SPECIAL CONFIGURATION:

1. Cancel on RFID card

Make this modification if you want to remove the security of the charger, so that when plugged in it starts charging without having to activate it through the RFID card.



J5 pin setting, the first counting from the left.

RFID ACTIVE: The jumper is inserted into the bottom two pins (bottom + middle) and the RFID card starts / stops charging.

RFID OFF: The jumper is inserted in the two upper pins (upper + middle) and works plug & play. You do not need an RFID card.

2. Change from 7.4kW to 6,2 - 5,3 - 3,7 kW of maximum load

Reduce the maximum load power in the event that you cannot install a higher power due to installation limitations. Being able to reduce the maximum power of the load from 7.4 to 6,2 - 5,3 - 3,7 kW.



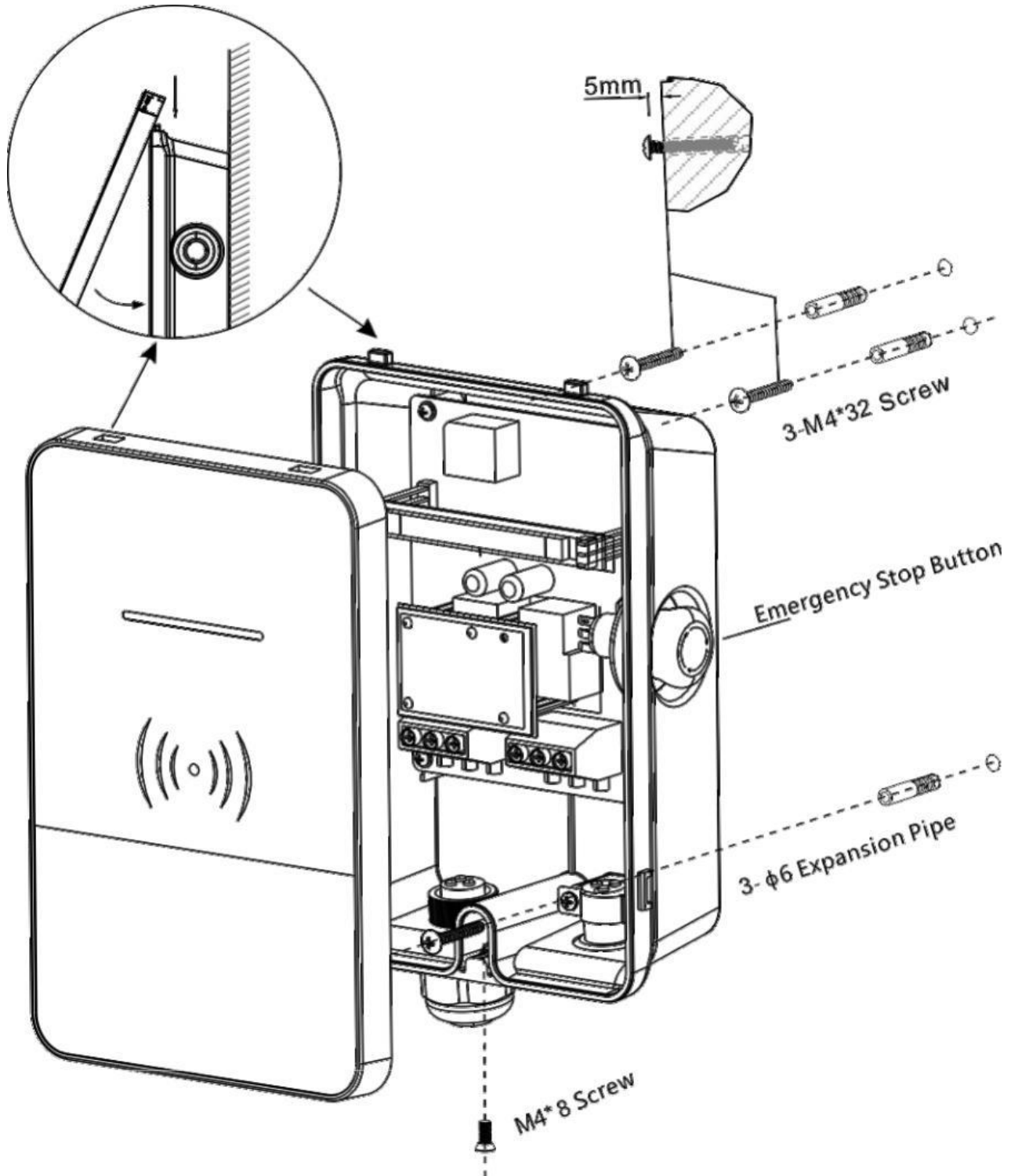
Place the jumpers for connectors J3 and J4, in this case the second and third from the left.

For example 7.4kW (32A), the jumper is inserted into the bottom two pins (bottom + middle) and the output current is 32A.

For 3.6kW (16A), the jumper of Jumper J4 is inserted in the two upper pins (upper + middle) and the output current is 16A.

	J5	J4	J3	J2		J5	J4	J3	J2
16A		■	■		27A			■	
3.7kW		■	■		6.2kW	■	■		
	J5	J4	J3	J2		J5	J4	J3	J2
23A		■	■		32A			■	
5.3kW		■	■		7.4kW	■	■		

Installation Illustration



Electric instalation

