

Morek EV AC Charger Installation and User Manual

ev.morek.eu



Not just for private use – find a suitable model and service for an apartment building, parking lot, commercial building, etc.

Smart charge (WiFi, LAN, and/or optional 4G)

Use it at a private house, apartment building, or work. Charge and share chargings. Perfect for public charging with Powered by Vonktech charge point & payment platform.

Plug & charge

For private use. No internet connection and smart features. Just plug & charge.



Network charger 3.8 " LCD display LAN, WiFi, RFID 5m cable Type 2 connector



Network charger 3.8 " LCD display LAN, WiFi, RFID Type 2 socket



Plug & Charge LED indicator 5m cable Type 2 connector

The installation process is simplified for maximum efficiency. The charger comes with a preset configuration and easy access with the Morek EV Tool APP to reduce setup time.











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Whats included in the box

Installation template	Waterproof gaskets	Insulated cord end terminals
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8 x 40 mm wall plugs	5 x 40 mm screws	

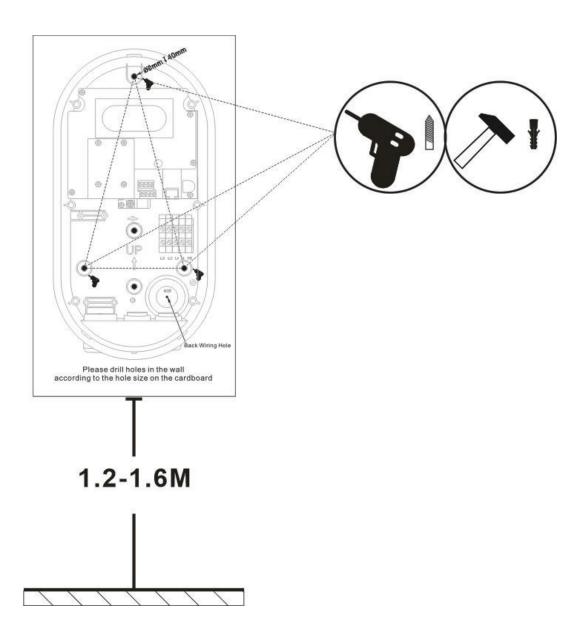


Required tools for installation

Measuring tape	Electric drill	Hammer
mm		
Slotted screwdriver	Phillips screwdriver	Wire stripper
Utility knife	8mm drill bit	

Installation steps

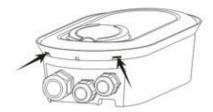
Cut the drilling template from the carton, place the drilling template on the wall, drill holes where the three fixing points, insert the Wall plugs into the fixing holes.



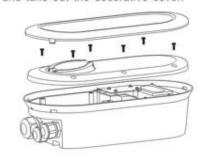


Installation steps

Open the cover

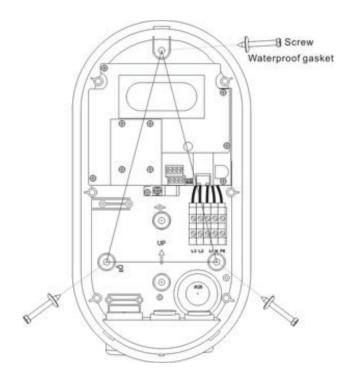


Press the two barbs under the machine and take out the decorative cover.



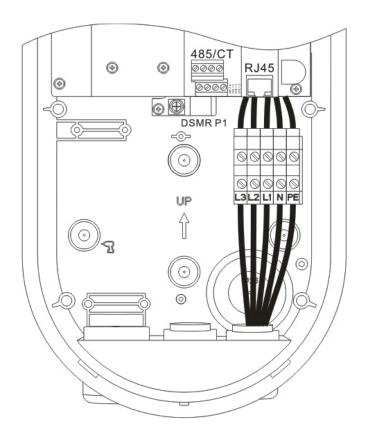
Loosen the six screws of the cover and take out the cover.

Fix the device on the wall by inserting the screws and waterproof gaskets

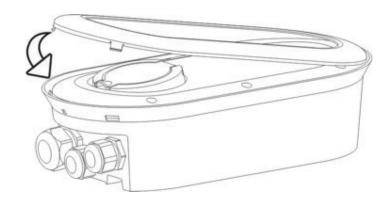


Installation steps

Wiring diagram, Electrical Wiring

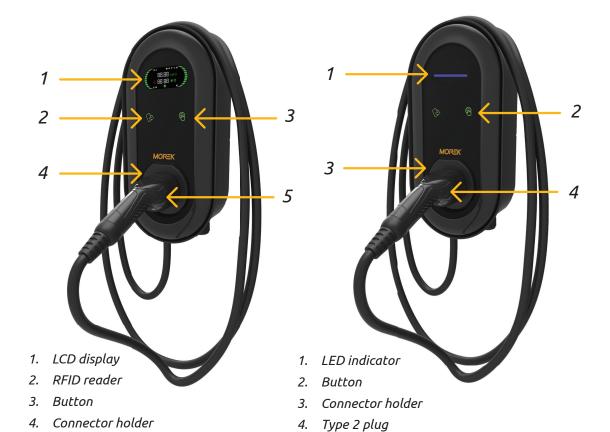


Put back the cover. Screw back the cover screws Buckle the upper cover.





Operation - User Interface





5. Type 2 plug

Operation - Charging operation

Powered by Vonktech

The charger is by default connected to the Vonktech OCPP backend server and system. This will provide some extra functionalities for the charger owner but free of charge is the possibility to start and stop the charger remotely. For extra functionalities and prices, please see the Morek Powered by Vonktech pricelist.

Charging the EV

- Connect EV
- When the charger status is available or prepare, start charging from the APP
- Stop charging from APP
- Disconnect EV

RFID only Mode

To start charging:

- Connect EV
- Tap the RFID card in the RFID reader area.

To stop charging

- Tap the RFID card in the RFID reader area.
- Disconnect EV

Plug and Charge Mode

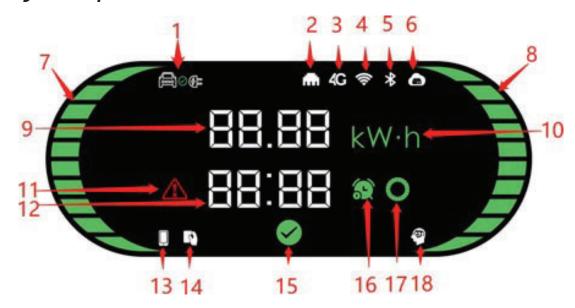
To start charging:

Connect EV

To stop charging:

- Press the touch button
- Disconnect EV

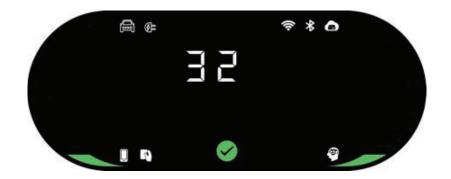




- 1. EV connection
- 2. LAN
- 3. 4G
- 4. WiFi
- 5. Bluetooth
- 6. CMS
- 7. Left status bar
- 8. Right status bar
- 9. Energy, power, or rated current

- 10. Energy/Power unit
- 11. Fault indicator
- 12. Time or fault code
- 13. Mobile APP control
- 14. RFID control
- 15. Available indicator
- 16. Reservation time indication
- 17. Waiting indicator
- 18. Smart Charger indicator

Availability - charger status Available



Not connected to EV Display rated current(A)

One left and right status bar indicates a single-phase charger Three left and right status bars indicate a three-phase charger

Preparing- charger status Preparing



Start charging
Display rated current(A)
Display time (minutes)

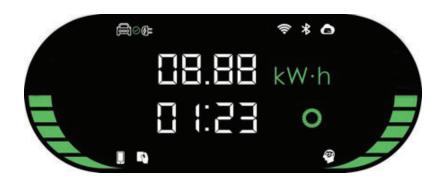
Charging- charger status Charging



Display charging power (kW), charging energy (kWh) in turn
Display charging time (minutes)
The left and right status bars indicate charging

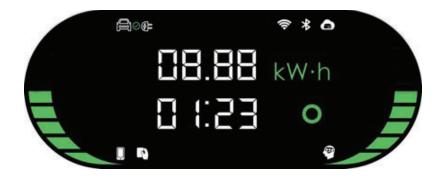


Suspended- charger status SuspendedEV



Charging suspend
Display charging energy (kWh)
Display charging time (minutes)
Display Waiting indicator

Finished- charger status Finished



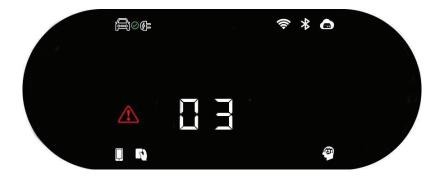
Charging has ended
Display charging energy (kWh)
Display charging time (minutes)

Reservation - charger status Reserved



Reserved charging
Display Reservation time (minutes)

Finished- charger status Finished



Fault
Display fault code, for the meaning of the fault

- see Troubleshooting



LED indicator

Light Status	Description
Solid Yellow	APP Mode: not connected to EV and not connected to the backend
Solid Green	APP Mode: not connected to EV but connected to the back end RFID or Plug&Charge Mode: not connected to EV
Blue Twinkle	Connected to EV
Green Twinkle slowly	Reservation in progress
Blue streaming	Charging
Blue Twinkle	Charging finished
Solid Red	Unavailable
Red Twinkle fast	Firmware update
RED flashes 1 time	Fault: fault code 1
RED flashes 2 time	Fault: fault code 2
 RED flashes 3 time 	Fault: fault code 3
 RED flashes 4 time 	Fault: fault code 4
 RED flashes 5 time 	Fault: fault code 5
RED flashes 6 time	Fault: fault code 6
 RED flashes 7 time 	Fault: fault code 7

Troubleshooting

Fault code & description		Troubleshooting suggestion	
1	Leakage	 Check whether the charging connector and its cable are damaged or wet. Recover after pulling out the adapter. 	
2	Over Current	 Check whether the charging connector is correctly connected. Check whether the OBC is normal. 	
3	Ground disconnected	- Charging station is not grounded; input power cable needs to be checked.	
4	Overvoltage or undervoltage	 Check whether the input cable connection is reliable. Check whether the input voltage is abnormal. 	
5	Contactor welding orbreaking	- Check whether the contactor connection is reliable.	
6	CP abnormal	- Check the charging connector and charging socket of EV. Disconnect and reconnect the charging connector.	
7	Electronic lock fault	- Check that the electronic lock connection is reliable.	



Maintenance

To ensure the long-term stable operation of the equipment, please maintain the equipment regularly (usually every month) according to the operating environment.

- a. The equipment is maintained by professionals.
- b. Check whether the equipment is well grounded and safe.
- c. Check whether there are potential safety hazards around the charging pile, such as whether there are high temperature, corrosion or inflammable and explosive articles close to the charging station.
- d. Check whether the join point of the input terminal is in good contact and whether there is any abnormality.

Check whether other terminal points are loose

Please read carefully to understand the correct use of the device before installation, maintenance, and operation!

Please follow the safety notes; otherwise, it may lead to a danger of death, injury and damage to the device, supplier cannot accept any liability for claims resulting from this.

- This manual describes the installation, use and maintenance of AC Charger. This manual is intended for installation and maintenance personnel.
- The text and illustrations in this user manual are general explanations of these type of equipment, and the actual product may be inconsistent with this manual in detail.

Safety notes

- Leave no inflammable or explosive substances near the EV Charger; otherwise, a hazardous blast may result.
- Installation and wiring should be done by personnel with professional qualifications, otherwise, a hazardous electric shock may result.
- Make sure the input power supply is entirely disconnected before wiring; otherwise, a hazardous electric shock may result.
- The earth terminal of the EV Charger must be grounded securely; otherwise, a hazardous electric shock may result.
- The lead nose of the charger must be securely attached or there is a risk of damaging the equipment.
- Leave no metals such as bolts, or gaskets into the inside of the EV Charger; otherwise, hazardous blasts and fire may result.
- Strictly forbidden for minors or persons of restricted capacity to approach the charger to avoid injury.
- Forced charging is strictly forbidden when the electric vehicle or charger fails.
- It is strictly prohibited to use the charger when the charging adapter or charging cables are defective, cracked, worn, or broken or the charging cables are exposed. If you find any, please contact the supplier in time.
- EVs can only be charged with the engine off and stationary.
- Accessory replacement must be done by qualified personnel, thrums or metals are prohibited to be left in the controller; otherwise, hazardous blasts and fire may result.
- It is recommended that routine safety inspection visits to chargers be conducted at least once a week.
- Keep the charging connector clean and dry and wipe with a clean, dry cloth if soiled.



Manage chargings the easy, effective, and versatile way

Manage electric car charging locally or in various locations across Europe from one system.

Morek AC chargers can be installed either on a wall or pole which enables infrastructure planning for indoor or outdoor parking spaces more flexible.



Questions? Make us work harder!

More information about Morek EV chargers and discussions

