

MTronic MCharger

### POWER SPECIFICATIONS

Charging power	Up to 22 kW
Voltage	230 VAC (1 phase) / 400 VAC (3 phase)
Frequency	50 Hz

### CONNECTIVITY SPECIFICATIONS

Interface	Wi-Fi®, Ethernet
Control Method	Wireless, Wired (via Ethernet), Toggle Switch

### TEMPERATURE AND HUMIDITY SPECIFICATIONS

Working Temperature	-25°C ~ +60°C
Humidity	95%

### PHYSICAL SPECIFICATIONS

Dimensions	266 x 441 mm
Housing Dimensions	266 x 411 x 137 mm
Available Charging	5m, 7m
Cable Lengths	
IP rating	IP55
IK Rating	IK10
Status display	2.4"-colored

### RADIO SPECIFICATIONS

Wireless Communication	Wi-Fi®, Ethernet
RFID	13.5 MHz
WLAN 802.11b/g/n	2.4 ~ 2.5 GHz

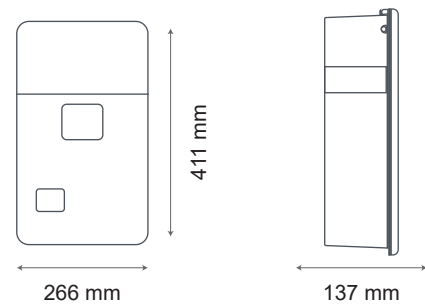
### DESCRIPTION

MCharger is a smart and connected EV charging solution that provides smart and reliable charging experience with the latest technologies made in Germany. It comes equipped with features like authentication and load balancing for multiple consumers.

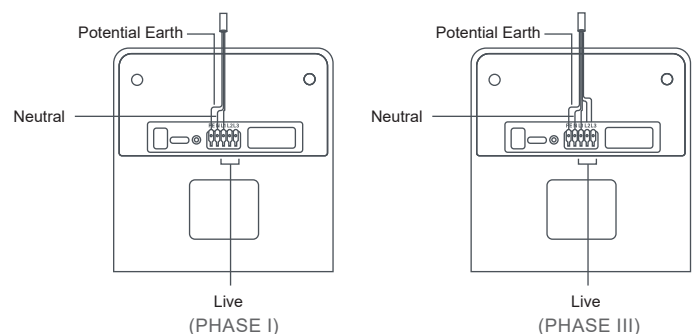
### WORKS WITH

- MTronic Web Portal
- MTronic Android Application
- MTronic iOS Application
- MCharger Local Web Portal

### TECHNICAL DRAWING IN MM



### WIRING DIAGRAM



### ANTENNA PROPERTIES/ ANTENNA GAINS

WLAN	20 dBm
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## IN THE BOX

1. Housing with pre-assembled lower cover and pre-assembled charging cable x 1
2. Top cover, not mounted x 1
3. Installation and operating manual in German x 1
4. Installation and operating manual in English x 1
5. Datasheet with access data x 1
6. RFID card for authentication x 2
7. Warranty Card x 1
8. Bag with x 1
  - a. Installation rail x 1
  - b. Screw 6 x 50 T30 x 5
  - c. Dowel 8 mm x 5
  - d. Screw for top cover 3.5 x 12 T15 x 2
  - e. Strain relief large x 1
  - f. Strain relief small x 1
  - g. Screw for strain relief 3.5 x 28 T15 x 2
  - h. Rubber grommet black small x 1
  - i. Rubber grommet grey x 2
  - j. Slotted cable inlet (1 x Inlay 6 mm, 1 x Inlay 2 x 6 mm) x 1
  - k. CAN bus mating connector x 1

## SAFETY INSTRUCTIONS

▲ Danger!  
Note about hazard

⚠ Warning!  
Note about potential hazard

### Do's

- ▲ 1. **Installation and technical service of MCharger must ONLY be carried out by an expert electrician. It is because high electrical voltages are present in the device that can pose a danger to life.**
- ▲ 2. **Follow the instructions mentioned in the manual correctly as improper installation or repair of the MCharger can cause severe consequences, such as fire or severe or fatal injuries!**
- ▲ 3. **When setting up the MCharger, ensure that the connection cable is disconnected from the mains.**
- ▲ 4. **Retest the electrotechnical equipment in accordance with the applicable standards after connection or reconnection.**
- ⚠ 5. Ensure that all the wires have a firm fit in the terminal block.
- ⚠ 6. Please note that according to electricity grid operators', energy suppliers' or national requirements a reporting or approval obligation for the installation or the operation of a MCharger may be mandatory. In Germany, there is a reporting obligation according to §19 NAV.
- ⚠ 7. Please note that continuously occurring network disturbances can lead to malfunctioning of the MCharger. It may be necessary to restart the MCharger.
- ⚠ 8. MCharger Connected is a radio equipment according to Radio Equipment Act (FuAG). The requirements described in the provided manual must be complied with in order for the radio equipment to be certified accordingly. A change to the MCharger or use outside of the described requirements will void the certification. The manufacturer assumes no liability for this.
- ⚠ 9. Ensure that the installation rail is aligned horizontally as only upright installation of the MCharger is permitted.

### Don'ts

- ▲ 1. **Do not open the housing until the MCharger is in a voltage-free state and no vehicle is connected to it. The top cover may only be opened by an electrician as it protects the user from access to high electrical voltages!**
- ▲ 2. **Do not carry out any unauthorized changes or repairs. If the MCharger is visibly damaged or has fallen, it must not be used. Please contact the installer or supplier.**
- ⚠ 3. Do not use any extension cables or adapters.
- ⚠ 4. When winding the cable, do not pull the cable and wind it up too tight. Repeated pulling or winding up too tightly can lead to cable breaks.
5. Do not mount or operate the MCharger on ships.

## FAULT CORRECTION AND MAINTENANCE

### Warning

Opening the device by yourself nullifies the warranty. Generally, the device is maintenance-free and would not require to be opened.