

Charge Amps **Halo**



# User Manual

English



Respect the environment! Must not be discarded with household waste! This product contains electrical or electronic components. Leave the product for separate collection and proper treatment at a designated location e.g. the local authority's recycling station.



In conformity with the relevant EU directives.

Neglecting to follow and carry out the directions, instructions and safety precautions in this User Manual implies that any warranty provisions will be cancelled and that Charge Amps can reject any and all claims for compensation in connection with any injuries/damage or incidents – direct or indirect – that are a result of such negligence.

Charge Amps AB does not give any warranties as to the accuracy or completeness of this document and shall have no liability for the consequences of using such information. Charge Amps AB reserves the right to make changes to information published in this document without notice. Visit [www.chargeamps.com](http://www.chargeamps.com) for the latest document releases.


© Copyright Charge Amps AB. All rights reserved. Copying, amending and translating are strictly forbidden without prior written approval from Charge Amps AB.

# 1 Safety

**WARNING! Read all instructions before installation.**

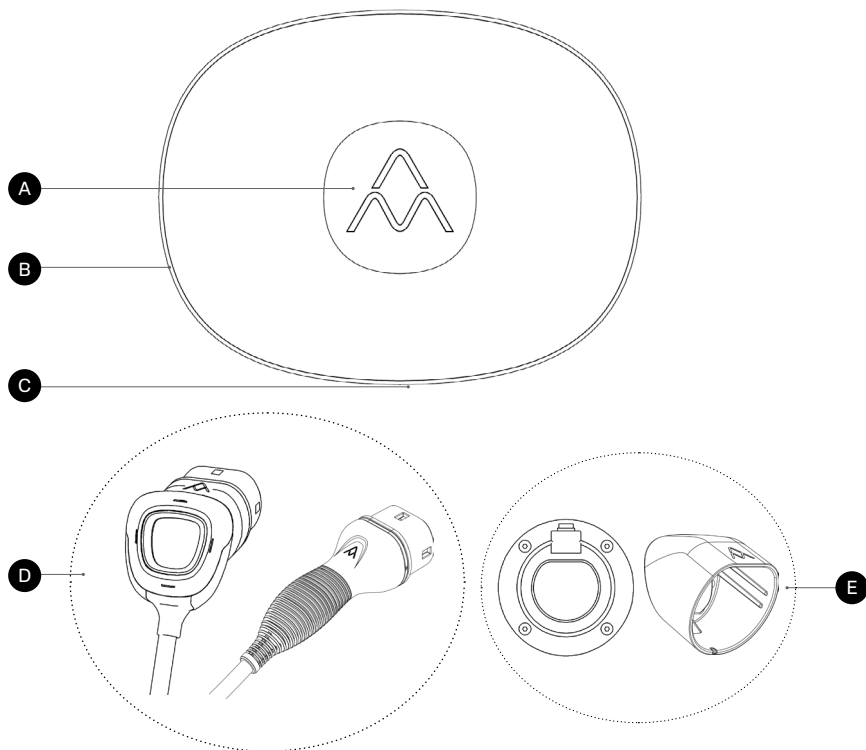
- Improper use may create a risk of personal injury.
- The product must only be installed by a qualified electrician in accordance with the Installation Manual.
- National usage requirements and restrictions apply.
- Only use this product for charging compatible electric vehicles.
- Never use an adapter between the vehicle connector and the electric vehicle.
- Cord extension sets are not allowed to be used.
- Inspect the product for visible damage before use.
- Never attempt to repair or use the product if it is damaged.
- Do not immerse the product in water, subject it to physical abuse or insert foreign objects in any part of the product.
- Never attempt to disassemble the product in any way.
- Always store the vehicle connector in the holder when not in use.
- The owner is responsible for informing users of the compatibility of any charging point.

## 2 Technical data

Charging mode	Mode 3
EV power supply identifier	
Metering	1 to 3 phase voltage, current and power
Vehicle connector	Type 2, 7.4/11 kW
Rated voltage ( $U_n$ )	230/400 V
Rated insulation voltage ( $U_i$ )	250/400 V
Rated impulse withstand voltage ( $U_{imp}$ )	4 kV
Rated frequency ( $f_n$ )	50 Hz
Rated current ( $I_n$ )	16/32 A (depending on variant)
Rated diversity factor (RDF)	1 (can be lowered if used together with a load balancing functionality)
Dimensions (W x D x H)	Main unit: 262 x 159 x 203 mm Vehicle connector: 81 x 125 x 88 mm
Characteristics of power supply and output	AC EV supply equipment connected to AC supply network, permanently connected
Assembly type	AEVCS
Cable length	7.5 m

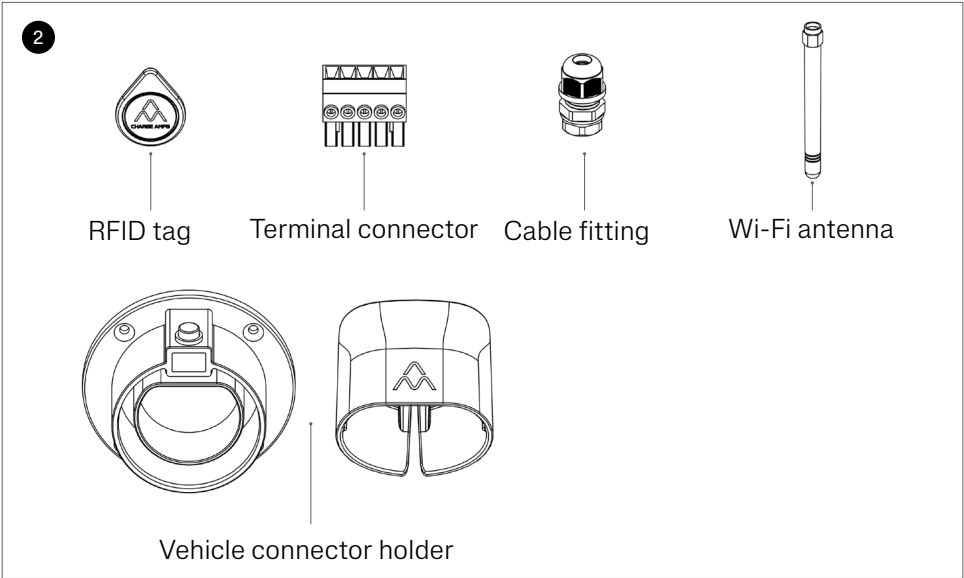
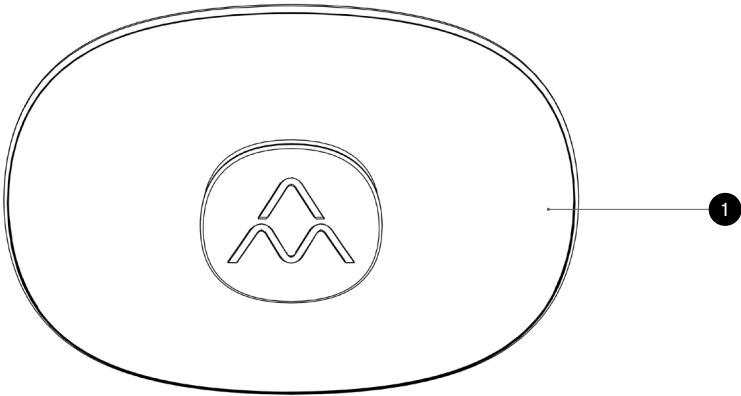
RFID	Type: ISO/IEC 14443 Typ A 13.56MHz Mifare Range: 13.553 – 13.567 MHz Max output: 31 dBm
Wi-Fi	Type: 802.11 b/g/n Range: 2400 – 2500 MHz Max output: 20/17/14 dBm@802.11 b/g/n

### 3 Product overview



- A** Centre light and RFID reader
- B** Ring light
- C** 230 V socket-outlet (some models only)
- D** Vehicle connector
- E** Vehicle connector holder

### 3.1 Package contents



## 1 Charge Amps Halo

## 2 Accessories

- 1x RFID tag
- 1x Five-pin terminal connector for feed current (comes in different versions).
- 2x Cable fitting for power and data.
- 1x Wi-Fi antenna
- 1x Vehicle connector holder (comes in different versions)
- 4x Screws for Vehicle connector holder (only for certain model):



Screws are included.



Screws are not included. 2 x 3.5 mm screws with recessed head are needed.

### Additional contents

- Document with serial number and password
- Quick Guide



# 4 Use

## 4.1 Add RFID tag

N.B: Make sure your installer has given you the access to Charge Amps Admin Portal to be able to manage RFID tags.

Add RFID tag using the Charge Amps cloud service:  
<https://my.charge.space/admin>

## 4.2 Start and stop charging without RFID identification

N.B: The socket-outlet is not available for use while charging a car.

3. Initiate charging by connecting the vehicle connector to the car.
4. Stop charging by disconnecting the vehicle connector from the car.
5. After charging, gently wrap the charging cable around Charge Amps Halo (NOTE: to extend the lifetime of the charging cable, wrap the charging cable loosely) and place the vehicle connector in the vehicle connector holder.

## 4.3 Start and stop charging with RFID identification

N.B: The socket-outlet is not available for use while charging a car.

1. Connect the vehicle connector to the car.
2. Initiate charging by briefly holding the RFID tag in front of the RFID reader.
3. Stop charging by briefly holding the RFID tag in front of the RFID reader.
4. Disconnect the vehicle connector from the car.
5. After charging, gently wrap the charging cable around Charge Amps Halo (NOTE: to extend the lifetime of the charging cable, wrap the charging cable loosely) and place the vehicle connector in the vehicle connector holder.

## 4.4 Cloud connectivity

Charge Amps Cloud and Charge Amps App are available for Charge Amps Halo connected to Charge Amps as the cloud provider.

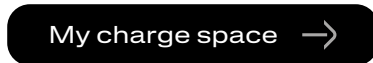
### Charge Amps App

Please download Charge Amps App for full control, adjusting settings and enabling smart charging and scheduling.



### Charge Amps Cloud

Please create an account in the Charge Amps Cloud to configure, control and manage your charger via our web interface.



<https://my.charge.space/>

### Full product information

Visit [www.chargeamps.com](http://www.chargeamps.com) for Charge Amps Halo Installation Manual, Charge Amps Halo User Manual and other product documentation.



<https://www.chargeamps.com/product/charge-amps-halo/>

# 4.4. LED indications

## 4.4.1 General

Status	Centre light	Ring light
Ready for charging	White light	Steady light
Charging	Steady light	Circling light
Charging complete (paused by vehicle)	White light	Steady light
Charging paused* (paused by Halo)	Flashing green light	Steady light

\* Power allocation can take up to 2 minutes

## 4.4.2 RFID tag verification

Status	Centre light	Ring light
Waiting for RFID tag	Flashing light	Steady light
RFID tag approved	Green light	Steady light
RFID tag not approved	Red light blinking once	Steady light

## 4.4.3 Error indications

Error	Centre light	Ring light
Earth fault or vehicle error*	Red light	No light

\* Action: Make sure that the vehicle connector is intact. Shut off the power and restart after a few minutes.

# 5 Maintenance

**WARNING! Never spray water or any liquid directly on to the product.**

- Never spray water on the vehicle connector, immerse it in water, or let it lie on the ground.
- Visually check that the vehicle connector is free from damage.
- Check that the vehicle connector cable is free from visible damage.
- Check that the screw connectors securing the power cables on the underside of the Charge Amps Halo are properly tightened.
- The outside of the product, the charging cable and the end of the vehicle connector must be regularly wiped with a clean, dry cloth to remove dirt and dust.
- Do not use detergent to clean any of the product's components.
- Put the product's vehicle connector somewhere where no one can step on, drive on or trip over it, and where it is not damaged or otherwise placed under stress.
- Store the vehicle connector in the holder to prevent unnecessary exposure to contamination and moisture.
- To extend the lifetime of the charging cable, wrap the charging cable loosely when it is not in use.

## 6 Product support and service

If you have any questions or problems with the product, support is always available. To find answers to your questions most quickly: Read through this User Manual to check whether your questions are answered here.

If your question is not answered in the User Manual, please:

1. Contact your supplier or cloud provider.
2. If you need service or repair, start by contacting the supplier from whom you purchased the product.
3. For additional information, visit our Help Center at:  
[www.chargeamps.com/support](http://www.chargeamps.com/support).

## 7 Warranty

Warranty terms may differ from market to market. Contact your supplier regarding the warranty terms.

[www.chargeamps.com](http://www.chargeamps.com)

Charge Amps AB (publ)  
Frösundaleden 2B, 8th floor  
SE-169 75 Solna, Sweden

Charge Amps UK Ltd  
4th Floor, 3 More London Riverside  
London SE1 2AQ, United Kingdom