

Charge Amps Aura

The Electric Vehicles (Smart Charge Points)
Regulation 2021



User Manual

English

Charge Amps Aura 131293

Charge Amps Aura 131294



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.

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1 Safety

WARNING! Read all instructions before installation.

- Improper use may create a risk of personal injury.
- The product must only be installed or opened by a qualified electrician in accordance with the Installation Manual.
- National usage requirements and restrictions apply.
- Charge Amps Aura complies with the device-level requirements set out under the Electric Vehicles (Smart Charge Points) Regulations 2021, as detailed in the technical file which is available online.
- Installers must adhere to the instructions stated in the Installation Manual regarding installation and configuration of the charger to ensure compliance with the Electric Vehicle (Smart Charge Point) Regulations 2021.
- It is the responsibility of the installer to provide proof of compliance to the Electric Vehicle (Smart Charge Point) Regulations 2021 of the complete charge point installation.
- Only use this product for charging compatible electric vehicles.
- Never use an adapter between the EV socket-outlet and the charging cable.
- 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.
- The owner is responsible for informing users of the compatibility of any charging point.

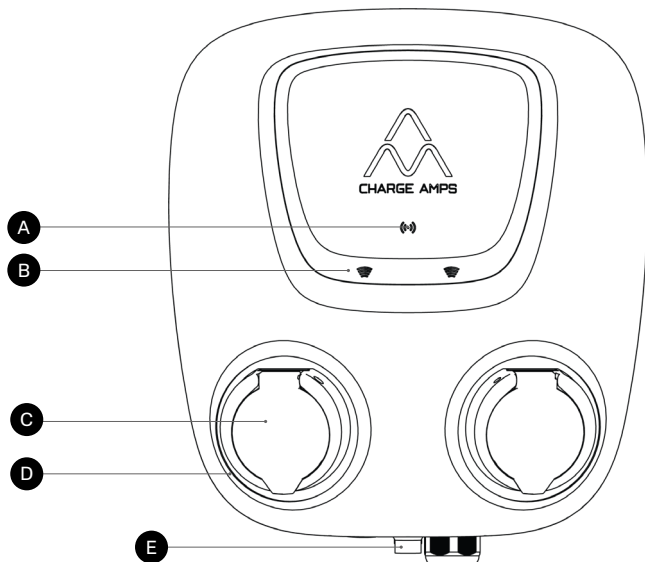
2 Technical data

Charging mode	Mode 3
EV power supply identifier	
Metering	1 to 3 phase voltage, current and power
Socket	Type 2, up to 2x22 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)	63 A
Rated diversity factor (RDF)	1 (can be lowered if used together with a load balancing functionality)
Dimensions (W x D x H)	367 x 159 x 405 mm
Characteristics of power supply and output	AC EV supply equipment connected to AC supply network, permanently connected.
Assembly type	AECVS
RFID	Type: ISO/IEC 14443 Typ A 13.56MHz Mifare Range: 13.553 – 13.567 MHz 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

Cellular networks communication
(only applies to Charge Amps Aura
with product number 131293).

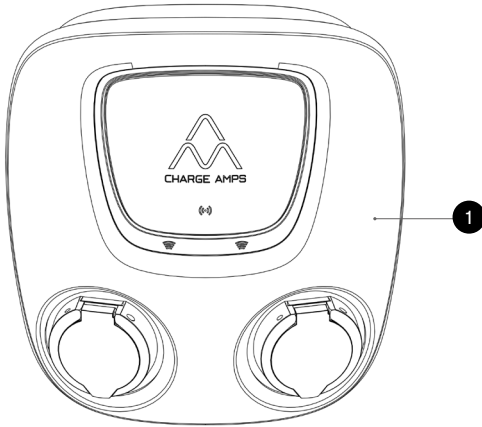
Type: GSM, GPRS, EDGE, UMTS/
HSPA+, LTE
Range: 698 - 960 / 1710 – 2690 MHz
Max. output: 33 dBm@GSM, 24 dBm@
WCDMA, 23 dBm@LTE
SIM Card: Standard SIM (25mm x
15mm).

3 Product overview

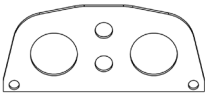


- A** RFID reader
- B** RFID light
- C** EV socket-outlet
- D** Socket light
- E** Cylinder light

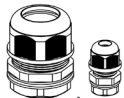
3.1 Package contents



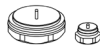
2



Cable slide



Cable fitting



Plugs



M32 insert



Screws



RFID tag



Cylinder key



Wago jumper

❶ Charge Amps Aura

❷ Accessories:

- Cable slide
- Cable fitting for power: 13 - 17.5 mm and 17 - 25 mm
- Cable fitting for data: 4 -8 mm
- Plugs
- M32 insert only
- Plugs and screws
- 2x RFID tags
- 2x Cylinder lock keys
- Wago jumper for IT network connection (MPN: 2016-433)

Additional contents:

- Document with serial number and password
- Quick Guide User

4 Use

N.B: This User Manual is only applicable to Charge Amps Aura with product number 131293 and 131294.

N.B. Make sure your installer has added you as a driver in the Fuuse Web portal to be able to manage settings and control your charger.

The instructions in this User Manual aims to ensure that the use of Charge Amps Aura is in line with the Electric Vehicle (Smart Charge Point) Regulations 2021. To comply with these regulations, Charge Amps Aura is managed via the Fuuse Charge Point Management Platform.

Reach the Fuuse Web portal by entering following in your browser:

- app.fuuse.io

4.1 Charging schedules

Charge Amps Aura is configured with default charging schedules that to avoid peak electricity demand. These default charging schedules will not enable charging during following hours:

- Weekdays between 8 am - 11 am
- Weekdays between 4 pm - 10 pm

On first use, you will be prompted to accept the pre-set schedules, reject the pre-set schedules or set your own schedules. This can be done via the Fuuse Web portal.

Information about the charging schedules and instructions of how you can manage these schedules can be found in the steps of this guide:

- <https://support.fuuse.io/knowledge/setting-charger-types-schedules-randomised-delays>

4.2 Randomised delay

A randomised delay has been added alongside charging schedules to further alleviate the stress EV charging will likely have on the National Grid over the coming years.

According to legislation in the UK, this randomised delay must exist by default on all chargers sold after July 1st, 2022. Charge Amps Aura is configured to operate, at each relevant time, with a delay of random duration up to 600 seconds, determined to the nearest second each time. However, the randomization setting can be disabled by the user.

If you do not wish to have a randomised delay on Charge Amps Aura, want to read more about the randomised delay or find instructions of how you can change the settings, follow the instructions in this guide:

- <https://support.fuuse.io/knowledge/setting-charger-types-schedules-randomised-delays#randomised-delay>

4.3 Safety

N.B: Always visually check Charge Amps Aura for any signs of damage, vandalism or if the charger has been tampered with before initiating a charging session.

Charge Amps Aura is secured by a locking mechanism on the bottom, fixating the front and back of Charge Amps Aura together. Upon completion of the installation process, a tamper evident label will be attached over the joint between the back and front.

If this label is removed, damaged or if you suspect that Charge Amps Aura has been tampered with in any way, don't connect a charging cable or initiate a charging session. Charge Amps Aura should be powered off and inspected by an installer or maintenance provider before use.

4.3.1 Report tamper incidents

All tamper incidents must be reported in the Fuuse Web portal:

1. Log in to the Fuuse web portal.
2. Navigate to the "Issues" tab in the side menu.
3. Choose "Create new issue" in the drop-down menu.
4. Fill in the details of the incident in the fields and add a photo of the issue.
5. Click the "Add issue" button in the right bottom corner to submit the issue.

4.4 Charging with RFID identification

N.B. Make sure your installer has added your RFID card in the Fuuse Web portal.

It is possible to start and stop a charging session by using RFID authentication. Before starting a charging session, the RFID card needs to be registered in the Fuuse Web portal and assigned to the driver.

Instructions for how to add and register RFID cards can be found in the steps of this guide:

- <https://support.fuuse.io/knowledge/how-to-set-up-payment-via-rfid>

Once the registration process is complete, the driver can use RFID cards to start and stop a charging session.

4.4.1 Start and stop charging using RFID authentication

1. Initiate charging by connecting the EV connector to the car. Lift the EV socket lid and connect the EV plug to the EV socket-outlet.
2. Briefly hold the RFID card in front of the RFID reader to start charging.

N.B: If the other EV socket-outlet is not in use, it will turn dark and be unavailable for 5 minutes during the verification of the RFID card. If no RFID card has been verified during these 5 minutes, charging needs to be initiated remotely or reactivated by unplugging and reconnecting the vehicle connector.

3. Stop charging by disconnecting the EV connector from the car and disconnect the EV plug from the EV socket.

4.5 Charging using Fuuse EV Driver App

N.B. Make sure your installer has added you as a driver in the Fuuse Web portal in order to use the Fuuse EV Driver App to start and stop charging sessions.

It is possible to start and stop a charging session by using the Fuuse EV Driver App. The app can be downloaded in App Store and Google Play. Please visit the Fuuse website for usage and more information about the Fuuse Driver App:

- <https://fuuse.io/fuuse-driver-app>

4.6 Cable lock

During charging, the cable lock on the charging station is automatically activated.

4.7 Portals and apps

Fuuse Driver App

Charge Amps Aura is managed via the Fuuse Charge Point Management Platform. Please download the Fuuse Driver App to manage your charging sessions.



Fuuse web portal

As an installer or administrator, you can log in to your Fuuse Admin User account to configure Charge Amps Aura, manage drivers and user admissions.



Fuuse web portal →

<https://app.fuuse.io/>

Full product information

Visit www.chargeamps.com for Charge Amps Aura Installation Manual, Charge Amps Aura User Manual and other product documentation.



Product information →

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



Technical file →

<https://www.chargeamps.com/app/uploads/2023/05/Technical-file-Charger-Amps-Aura-The-Electric-Vehicles-Smart-Charge-Points-Regulations-2021.pdf>

4.8 LED indications

4.8.1 General

Status	Socket light	RFID light
Ready for charging	Green light	-
Charging	Blue light	-
Charging complete (paused by vehicle)	Yellow light	-
Charging paused (paused by Charge Amps Aura)	Flashing blue light	-

4.8.2 RFID card verification

Status	Socket light	RFID light
Waiting for RFID verification	Yellow light	Flashing blue light
RFID tag not approved	Yellow light	Red*
RFID tag approved	-	Green lights up

* Auto-return to "Waiting for RFID verification"

4.8.3 Other

Status	Socket light	RFID light
EV socket-outlet not available for use	No light	No light
Error	Red light	No light

5 Maintenance

5.1 Regular maintenance

N.B: Never spray water or any other liquid directly on to the product.

- Visually check that the EV socket-outlet is free from damage.
- The outside of the product 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.
- Regularly check that the tamper evident label is intact and unbroken.

5.2 Preventative maintenance

N.B: Preventative maintenance should be performed by a qualified electrician once or twice each year to check that Charge Amps Aura is in good condition.

- Remove the front cover and make a visual check of the cable connections.
- Gently rock the internal RCBO to make sure it's properly seated.

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 the Installation Manual or User Manual to check whether your questions are answered here.

If your question is not answered, please:

1. For questions related to the cloud service, contact Fuuse Charge Point Management Platform support:
 - ChargeAmps@fuuse.io
2. If you need service or repair, start by contacting the supplier from whom you purchased the product.
3. For additional information, visit Charge Amps Help Center at www.chargeamps.com/support.

7 Warranty

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

www.chargeamps.com

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