



SMA EV CHARGER 7.4 / 22

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Table of Contents

1	Information on this Document.....	5
1.1	Validity.....	5
1.2	Target Group	5
1.3	Content and Structure of this Document.....	5
1.4	Levels of Warning Messages.....	5
1.5	Symbols in the Document.....	6
1.6	Typographies in the document.....	6
1.7	Designations in the Document.....	6
2	Safety	7
2.1	Intended Use.....	7
2.2	IMPORTANT SAFETY INFORMATION	7
3	Scope of delivery	11
4	Product overview	13
4.1	Product Description.....	13
4.2	Symbols on the Product.....	14
4.3	Interfaces and Functions.....	15
4.4	LED Signals.....	16
4.5	System Overview	18
4.5.1	Circuitry Overview	19
4.5.2	Communication Overview	21
4.6	Multi-EVC operation	21
5	Mounting	24
5.1	Requirements for Mounting.....	24
5.2	Mounting the product.....	26
6	Electrical Connection.....	28
6.1	Overview of the Connection Area.....	28
6.1.1	View from Below	28
6.1.2	Interior View	28
6.2	Mounting the Connection Cap	29
6.3	AC Connection	30
6.3.1	Connecting the Utility Grid	30
6.3.2	Connecting Additional Grounding.....	31
6.4	Connecting the Charging Cable.....	32
6.5	Connecting Signal Source to Digital Input.....	33
6.6	Connecting the Network Cables	35
7	Commissioning	38
7.1	Commissioning Procedure.....	38
7.2	Commissioning the Product	38
7.3	Changing the Network Configuration.....	41
7.4	Configuring the product	41
8	Operation	43
8.1	Establishing a Connection to the User Interface	43
8.1.1	Establishing a direct connection via WLAN	43
8.1.2	Establishing a Connection via Ethernet in the local network	44

8.1.3	Establishing a Connection via WLAN in the Local Network.....	45
8.2	Design of the User Interface.....	46
8.3	Activate WPS Function	47
8.4	Changing the Password	47
8.5	Properties of Charging Modes	48
8.6	Changing the Charging Mode	48
8.7	Activating the Charging Release via App	49
8.8	Setting the Brightness of LEDs	49
8.9	Deleting the Admin Account	49
9	Disconnecting the product from voltage sources	50
10	Maintenance.....	52
11	Cleaning the Product	53
12	Troubleshooting	54
12.1	Event messages.....	54
13	Decommissioning the Product.....	60
14	Procedure for Receiving a Replacement Device	64
15	Disposal	65
16	Technical Data	66
17	Accessories	68
18	Spare Parts	69
19	Contact	70
20	EU Declaration of Conformity	71

1 Information on this Document

1.1 Validity

This document is valid for:

- EVC7.4-1AC-10 (SMA EV Charger 7.4)
- EVC22-3AC-10 (SMA EV Charger 22)

1.2 Target Group

This document is intended for qualified persons and end users. Only qualified persons are allowed to perform the activities marked in this document with a warning symbol and the caption "Qualified person". Tasks that do not require any particular qualification are not marked and can also be performed by end users. Qualified persons must have the following skills:

- Knowledge of how the product works and is operated
- Training in how to deal with the dangers and risks associated with installing, repairing and using electrical devices and installations
- Training in the installation and commissioning of electrical devices and installations
- Knowledge of all applicable laws, regulations, standards, and directives
- Knowledge of and compliance with this document and all safety information

1.3 Content and Structure of this Document

This document describes the mounting, installation, commissioning, configuration, operation, troubleshooting and decommissioning of the product as well as the operation of the product user interface.

You will find the latest version of this document and further information on the product in PDF format and as eManual at www.SMA-Solar.com. You can also call up the eManual via the user interface of the product.

Illustrations in this document are reduced to the essential information and may deviate from the real product.

1.4 Levels of Warning Messages

The following levels of warning messages may occur when handling the product.

DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Indicates a situation which, if not avoided, can result in property damage.

1.5 Symbols in the Document

Symbol	Explanation
	Information that is important for a specific topic or goal, but is not safety-relevant
	Indicates a requirement for meeting a specific goal
	Required result
	Example
 QUALIFIED PERSON	Sections describing activities to be performed by qualified persons only

1.6 Typographies in the document

Typography	Use	Example
bold	• Messages • Terminals • Elements on a user interface • Elements to be selected • Elements to be entered	• Connect the insulated conductors to the terminals X703:1 to X703:6. • Enter 10 in the field Minutes.
>	• Connects several elements to be selected	• Select Settings > Date.
[Button] [Key]	• Button or key to be selected or pressed	• Select [Enter].
#	• Placeholder for variable components (e.g., parameter names)	• Parameter WCtHz.Hz#

1.7 Designations in the Document

Complete designation	Designation in this document
SMA EV Charger	EV Charger, charging station, product

2 Safety

2.1 Intended Use

The SMA EV Charger is an AC charging station that is designed for unidirectional charging of a vehicle. The SMA EV Charger along with the Sunny Home Manager 2.0 makes an intelligent charging station. If the SMA EV Charger is operated without Sunny Home Manager 2.0, the modes for intelligent charging are not available.

The product must only be used as stationary equipment.

The product is suitable for indoor and outdoor use.

The EVC7.4-1AC-10 must not be used in industrial environments.

The product must be tested in fast charging mode according to IEC 61851 before its first charging operation using a suitable measuring device for charging stations.

Only interfaces officially approved by SMA Solar Technology AG (e.g., SEMP, Modbus) may be used for (fully) automated control of the product by third-party applications. In particular, the (fully) automated, frequent setting of parameters is considered improper use.

All components must remain within their permitted operating ranges and their installation requirements at all times.

The product must only be used in countries for which it is approved or released by SMA Solar Technology AG and the grid operator.

The products by SMA Solar Technology AG are not suitable for use in

- Medical devices, in particular products for supplying life-support systems and machines,
- Aircraft, the operation of aircraft, the supply of critical airport infrastructure and airport systems,
- Rail vehicles, the operation and supply of rail vehicles and their critical infrastructure.

The above list is not exhaustive. Contact us if you are unsure whether products by SMA Solar Technology AG are suitable for your application.

Use SMA products only in accordance with the information provided in the enclosed documentation and with the locally applicable laws, regulations, standards and directives. Any other application may cause personal injury or property damage.

The documentation must be strictly followed. Deviations from the described actions and the use of materials, tools, and aids other than those specified by SMA Solar Technology AG are expressly forbidden.

Alterations to the SMA products, e.g., changes or modifications, are only permitted with the express written permission of SMA Solar Technology AG. Unauthorized alterations as well as failure to observe the documentation will void guarantee and warranty claims and in most cases terminate the operating license. SMA Solar Technology AG shall not be held liable for any damage caused by such changes.

Any use of the product other than that described in the Intended Use section does not qualify as appropriate.

The documentation supplied is an integral part of SMA products. Keep the documentation in a convenient, dry place for future reference and observe all instructions contained therein.

This document does not replace any regional, state, provincial, federal or national laws, regulations or standards that apply to the installation, electrical safety and use of the product. SMA Solar Technology AG assumes no responsibility for the compliance or non-compliance with such laws or codes in connection with the installation of the product.

The type label must remain permanently attached to the product.

2.2 IMPORTANT SAFETY INFORMATION

Keep the manual for future reference.

This section contains safety information that must be observed at all times when working.

The product has been designed and tested in accordance with international safety requirements. As with all electrical or electronical devices, some residual risks remain despite careful construction. To prevent personal injury and property damage and to ensure long-term operation of the product, read this section carefully and observe all safety information at all times.

DANGER

Danger to life due to electric shock when live components or cables are touched

High voltages are present in the conductive components or cables of the product. Touching live parts and cables results in death or lethal injuries due to electric shock.

- Do not touch non-insulated parts or cables.
- Disconnect the product from voltage sources and ensure it cannot be reconnected before working on the device.
- Wear suitable personal protective equipment for all work on the product.

DANGER

Danger to life due to electric shock in case of overvoltages and if surge protection is missing

Overvoltages (e.g., in the event of a flash of lightning) can be further conducted into the building and to other connected devices in the same network via the network cables or other data cables if there is no surge protection. Touching live parts and cables results in death or lethal injuries due to electric shock.

- Ensure that all devices in the same network are integrated in the existing overvoltage protection.
- When laying the network cable outdoors, ensure that there is suitable surge protection at the network cable transition from the product outdoors to the network inside the building.
- The Ethernet interface of the product is classified as "TNV-1" and offers protection against overvoltages of up to 1.5 kV.

WARNING

Danger to life due to fire and explosion

In rare cases, an explosive gas mixture can be generated inside the product under fault conditions. In this state, switching operations can cause a fire inside the product or explosion. Death or lethal injuries due to hot or flying debris can result.

- In the event of a fault, do not perform any direct actions on the product.
- Ensure that unauthorized persons have no access to the product.
- Disconnect the AC circuit breaker, or keep it disconnected in case it has already tripped, and secure it against reconnection.
- Only perform work on the product (e.g., troubleshooting, repair work) when wearing personal protective equipment for handling of hazardous substances (e.g., safety gloves, eye and face protection, respiratory protection).

⚠ WARNING**Risk of injury due to toxic substances, gases and dusts**

In rare cases, damages to electronic components can result in the formation of toxic substances, gases or dusts inside the product. Touching toxic substances and inhaling toxic gases and dusts can cause skin irritation, burns or poisoning, trouble breathing and nausea.

- Only perform work on the product (e.g., troubleshooting, repair work) when wearing personal protective equipment for handling of hazardous substances (e.g., safety gloves, eye and face protection, respiratory protection).
- Ensure that unauthorized persons have no access to the product.

⚠ WARNING**Danger when driving or rolling away with charging cable still attached**

This can result in serious injuries or property damage.

- Disconnect the charging cable from the vehicle before leaving.
- Do not bypass the vehicle's safety device.

⚠ CAUTION**Risk of burns due to hot enclosure parts**

Some parts of the enclosure can get hot during operation. Touching hot enclosure parts can result in burn injuries.

- Do not touch the enclosure during operation.
- Wear suitable personal protective equipment.

⚠ CAUTION**Risk of injury due to weight of product**

Injuries may result if the product is lifted incorrectly or dropped while being transported or mounted.

- Wear suitable personal protective equipment for all work on the product.

⚠ CAUTION**Risk of injury due to weight of enclosure lid of product**

Dropping the enclosure lid during assembly or disassembly of the enclosure lid can cause injuries.

- Wear suitable personal protective equipment for all work on the product.

NOTICE**Damage to the product due to sand, dust and moisture ingress**

Sand, dust and moisture penetration can damage the product and impair its functionality.

- Only open the product if the humidity is within the thresholds and the environment is free of sand and dust.
- Do not open the product during a dust storm or precipitation.

NOTICE**High costs due to inappropriate Internet tariff**

Depending on use, the data volume of the product transferred via the Internet may vary in size. The data volume depends, for example, on the number of devices in the system and the frequency of device updates. High costs for the Internet connection can be the result.

- SMA Solar Technology AG recommends using an Internet flat rate.

NOTICE**Damage to the product due to cleaning agents**

The use of cleaning agents may cause damage to the product and its components.

- Clean the product and all its components only with a cloth moistened with clear water.

** DHCP Server is recommended**

The DHCP server automatically assigns the appropriate network settings to your nodes in the local network. A manual network configuration is therefore not necessary. In a local network, the Internet router is usually the DHCP server. If the IP addresses in the local network are to be assigned dynamically, DHCP must be activated in the Internet router (see the Internet router manual). In order to receive the same IP address by the internet router after a restart, set the MAC address binding.

In networks where no DHCP server is active, proper IP addresses must be assigned from the free address pool of the network segment to all network participants to be integrated during commissioning.

** Communication disturbances in the local network**

The IP address range 192.168.12.0 to 192.168.12.255 is occupied for communication amongst SMA products and for direct access to SMA products.

Communication problems might occur if this IP address range is used in the local network.

- Do not use the IP address range 192.168.12.0 to 192.168.12.255 in the local network.

3 Scope of delivery

Check the scope of delivery for completeness and any externally visible damage. Contact your distributor if the scope of delivery is incomplete or damaged.

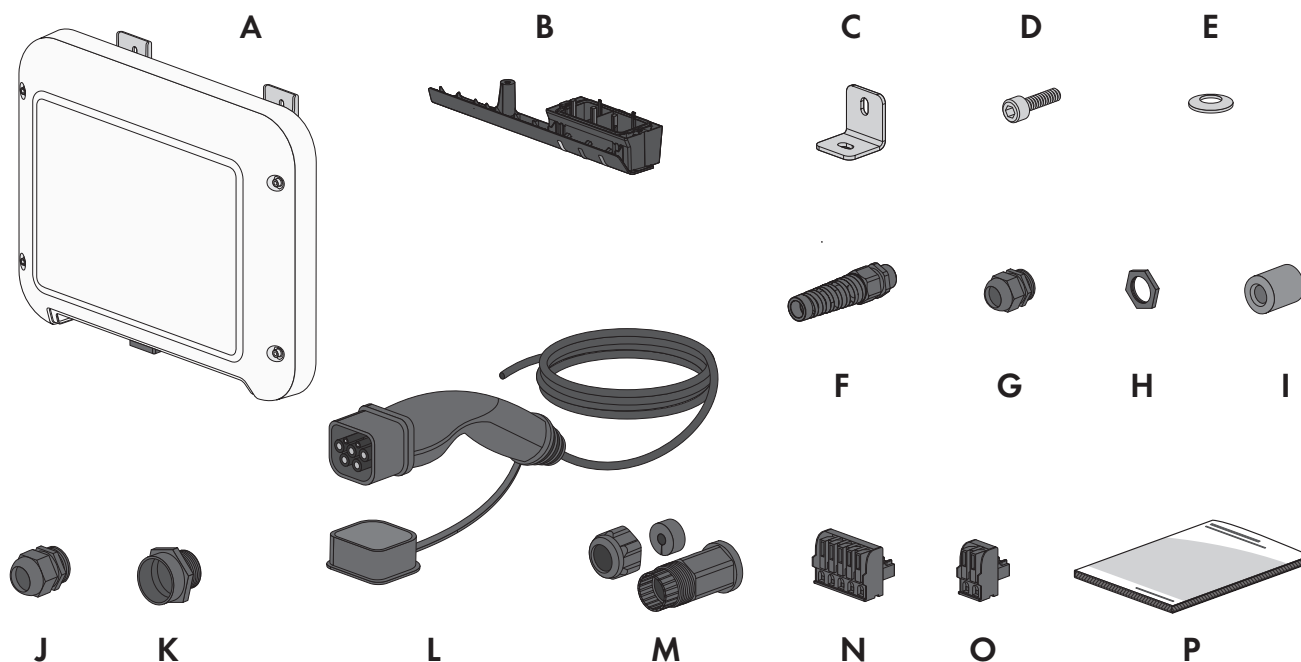


Figure 1: Components included in the scope of delivery

Position	Quantity	Designation
A	1	Charging station
B	1	Connection cap
C	1	Mounting bracket
D	1	Cylindrical screw M5 x 16
E	1	Spring washer M5
F	1	Bending protection spiral
G	1	Cable gland M25
H	1	Counter nut for cable gland M25
I	2	Ferrite
J	1	Cable gland M32
K	1	Cable gland extension from M25 to M32
L	1	Charging cable
M	1	RJ45 protective sleeve: swivel nut, cable support sleeve, threaded sleeve
N	1	2-pole terminal block for connecting a signal source to the digital input

Position	Quantity	Designation
O	1	5-pole terminal block for connecting a signal source to the digital input
P	1	Quick reference guide with password label on the rear side The label contains the following information: • PIC (Product Identification Code) identification key for registering the system in Sunny Portal • RID (Registration Identifier) registration ID for registering the system in Sunny Portal • Wi-Fi password WPA2-PSK (WiFi Protected Access 2 - Preshared Key) for direct connection to the product via Wi-Fi • Device Key (DEV KEY) for resetting the administrator password

4 Product overview

4.1 Product Description

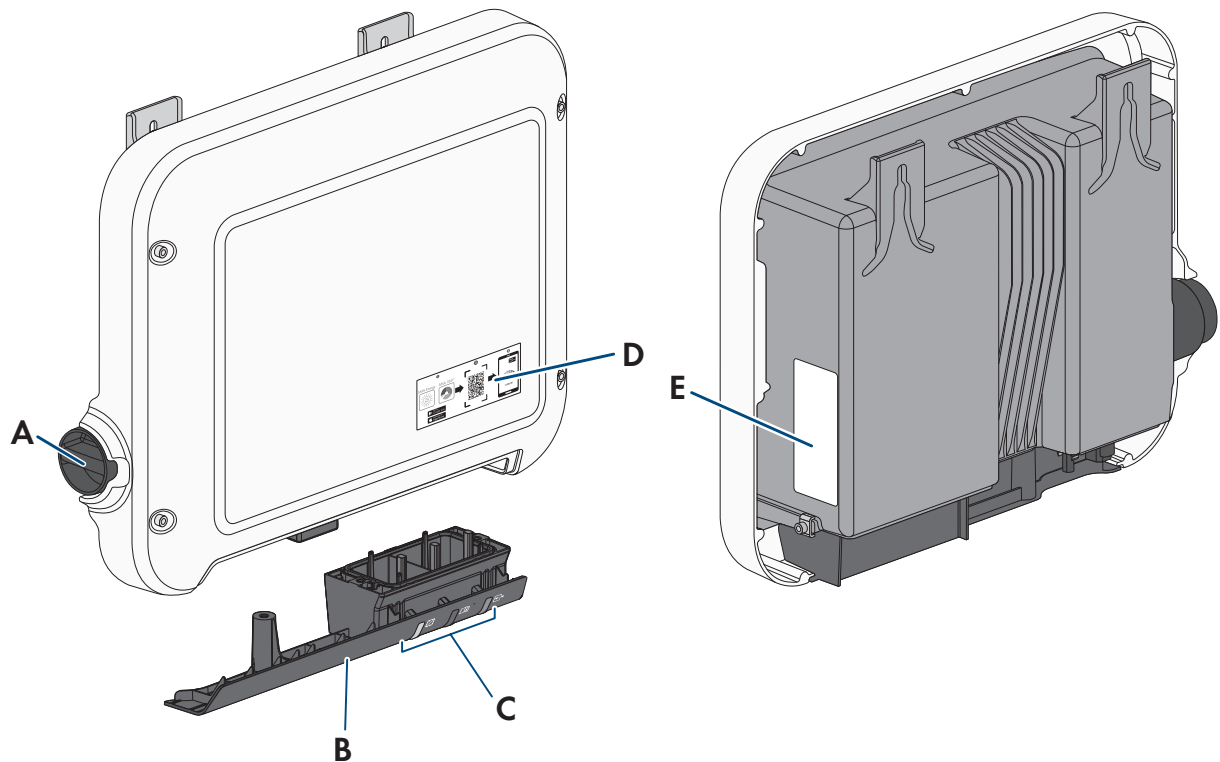


Figure 2: Design of the product

Position	Designation
A	Rotary switch to select charging mode
B	Terminal cover Cable glands for the charging cable, the AC cable, the network cable and the signal source cable for the digital input
C	LEDs The LEDs indicate the operating state of the product.

Position	Designation
D	Label with QR Code for scanning via the SMA 360° App and easy connection to the inverter's user interface via WLAN
E	Type label The type label clearly identifies the product. The type label must remain permanently attached to the product. You will find the following information on the type label: • Device type (Model) • Serial number (Serial No. or S/N) • Date of manufacture • Identification key (PIC) for registration in Sunny Portal • Registration ID (RID) for registration in Sunny Portal • Wi-Fi password (WPA2-PSK) for the direct connection to the user interface of the product via Wi-Fi • Device-specific characteristics

4.2 Symbols on the Product

Symbol	Explanation
	Beware of electrical voltage The product operates at high voltages.
	Beware of hot surface The product can get hot during operation.
	Observe the documentation Observe all documentations supplied with the product.
	Charge mode The symbol together with the green LED indicates that the product is in charging mode.
	Observe the documentation Together with the red LED, this symbol indicates an error.
	Data transmission Together with the blue LED, this symbol indicates the status of the network connection.
	Fast charging This symbol is located on the rotary switch and indicates the switch position for fast charging.
	Smart charging This symbol is located on the rotary switch and indicates the switch position for charging controlled by the energy management system.
	AC Alternating current

Symbol	Explanation
	WEEE designation Do not dispose of the product together with the household waste but in accordance with the disposal regulations for electronic waste applicable at the installation site.
	The product is suitable for outdoor installation.
IP65	Degree of protection IP65 The product is protected against the penetration of dust and water that is directed as a jet against the enclosure from all directions.
	CE marking The product complies with the requirements of the applicable EU directives.
	RoHS labeling The product complies with the requirements of the applicable EU directives.

4.3 Interfaces and Functions

The product is equipped with the following interfaces and functions:

User interface for configuration and monitoring

The product is equipped as standard with an integrated webserver, which provides a user interface for configuring and monitoring the product.

Once the connection has been established to the smart device, use a terminal (e.g. smartphone, tablet or laptop) to connect to the product's user interface using a web browser.

SMA Speedwire

The product is equipped with SMA Speedwire as standard. SMA Speedwire is a type of communication based on the Ethernet standard. SMA Speedwire is designed for a data transfer rate of 100 Mbps and enables optimum communication between Speedwire devices within systems.

The products supports the encrypted system communication with SMA Speedwire Encrypted Communication. In order to be able to use the Speedwire encryption in the system, all Speedwire devices, except for the SMA Energy Meter, must support the function SMA Speedwire Encrypted Communication.

Wi-Fi connection to SMA 360° app and SMA Energy app

There is a QR code on the product by default. By scanning the QR Code attached to the product via the SMA 360° app or SMA Energy app, access to the product is established via Wi-Fi and the connection to the user interface is made automatically.

Wi-Fi

The product is equipped with a Wi-Fi interface as standard. The inverter is delivered with the WLAN interface activated as standard. If you do not want to use WLAN, you can deactivate the WLAN interface.

In addition, the product has a WPS function. The WPS function is for automatically connecting the product to a network (e.g. via router) and establish a direct connection between the product and a smart end device.

Limited function in the event of frost

The integrated Wi-Fi interface of the product is only designed for temperatures down to -20°C.

- Deactivate the Wi-Fi interface at low temperatures.

Charging release via app

To protect the charging station against unauthorized access, you can activate the **Load release via app** as of firmware version 1.02.##.R. After activation, the charging station is locked and each charging process must be released via the SMA Energy App. Charging approval applies to the active charging process. When charging is complete, the charging station is locked again.

Activation can be performed during commissioning via the installation wizard under **Load settings** or during operation via the user interface under **Device configuration**.

Device Key (DEV KEY)

The device key allows you to reset the administrator account and assign a new password if you forget the administrator password for the product. The device key can be used to prove the identity of the product in digital communication. The Device Key is located on the back of the quick reference guide that comes with the product. Keep the device key safe in case you forget the administrator password.

Digital inputs

The charging station is equipped with digital inputs as standard.

The digital input **X1300** is intended for connection of a ripple control receiver or remote terminal unit for control of the charging station by the grid operator.

Digital input **X1301** can be used to connect a fast stop switch to control the charging station by the grid operator or a key switch or RFID card reader to enable charging.

SMA Smart Connected

SMA Smart Connected is the free monitoring of the product via the SMA Sunny Portal. Thanks to SMA Smart Connected, the operator and qualified person will be informed automatically and proactively about product events that occur.

SMA Smart Connected is activated during registration in Sunny Portal. In order to use SMA Smart Connected, it is necessary that the product is permanently connected to Sunny Portal and the data of the operator and qualified person is stored in Sunny Portal and up-to-date.

4.4 LED Signals

The LEDs indicate the operating state of the product.

LED signal	Explanation
The green LED is flashing slowly (2 seconds on and 2 seconds off)	Waiting for start conditions The conditions for charging operation are not yet met. As soon as the conditions are met, the EV Charger will start charging operation.
The green LED is flashing fast: 0.5 s on and 0.5 s off	Software update The product is carrying out a software update.
The green LED is glowing	Charge mode The EV Charger charges the vehicle at more than 90% of its nominal power.
The green LED is pulsing	Charge mode The EV Charger is equipped with a dynamic power display via the green LED. Depending on the power, the green LED pulses fast or slow.
The green LED is off	The EV Charger does not perform any charging process.

LED signal	Explanation
The red LED is glowing	Event occurred If an event occurs, a distinct event message and the corresponding event number will be displayed in addition on the product user interface or in the communication product (e.g. Sunny Home Manager).
Red LED flashing	Charging mode was interrupted by vehicle. If this event occurs, the vehicle has interrupted the charging process. Corrective measures: • Opening and closing of the vehicle by radio remote control. • Remove the charging cable from the vehicle and then reconnect the charging cable to the vehicle. • Check and if necessary adjust the settings in the vehicle's user interface.
The blue LED flashes slowly for approx. 1 minute	Communication connection is being established The product is establishing a connection to a local network or is establishing a direct connection to a smart device via Ethernet (e.g. smartphone, tablet or laptop).
The blue LED flashes quickly for approx. two minutes (0.25 s on and 0.25 s off).	WPS active The WPS function is active.
The blue LED is glowing	Communication active There is an active connection with a local network or there is a direct connection via Ethernet with a smart end device (e.g. smartphone, tablet or laptop).
All 3 LEDs light up and go out after about 90 seconds	Start phase of charging operation When the LEDs are off again, the start phase is complete and charging begins.

4.5 System Overview

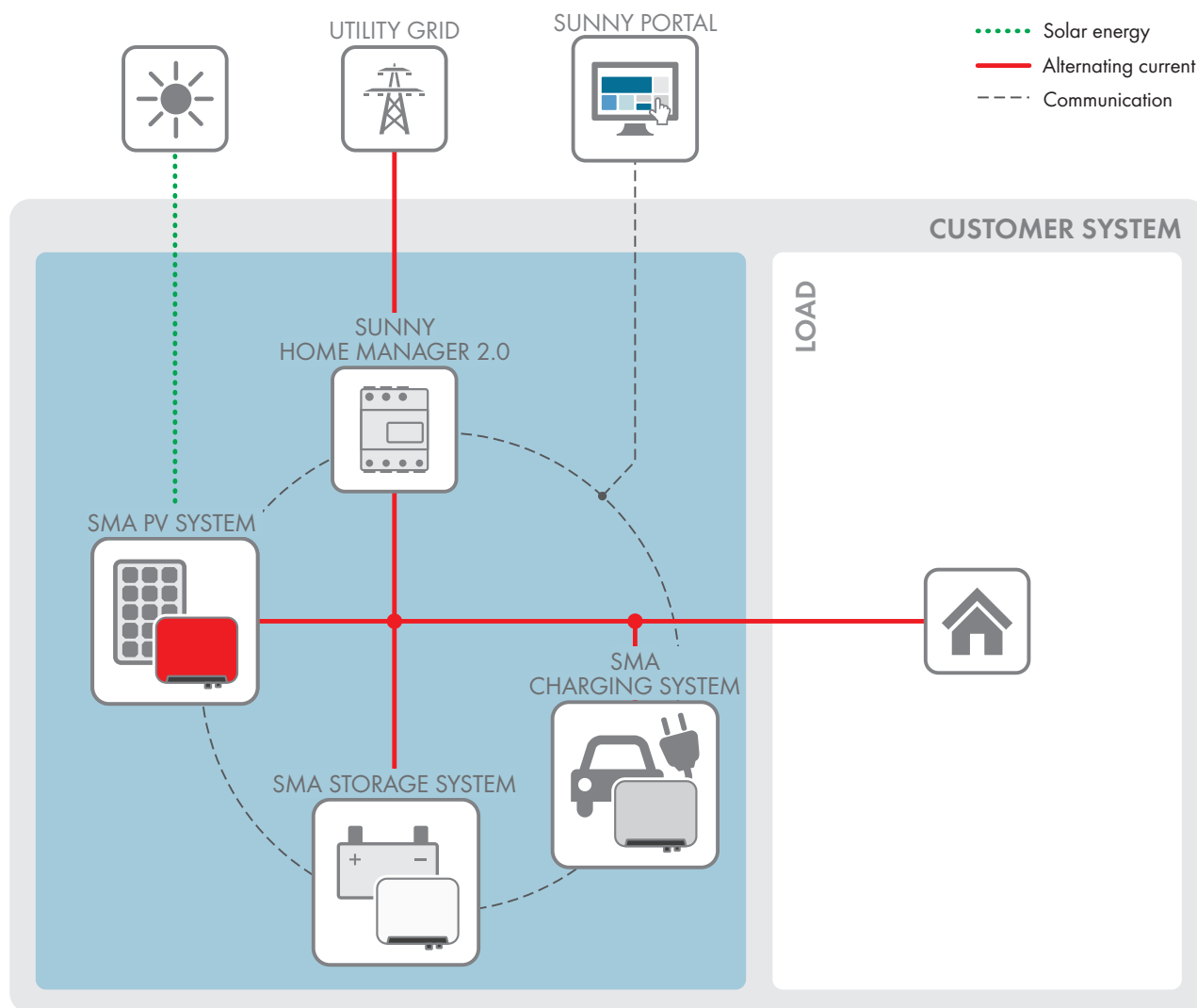


Figure 3: System design

4.5.1 Circuitry Overview

System with 1 SMA EV Charger

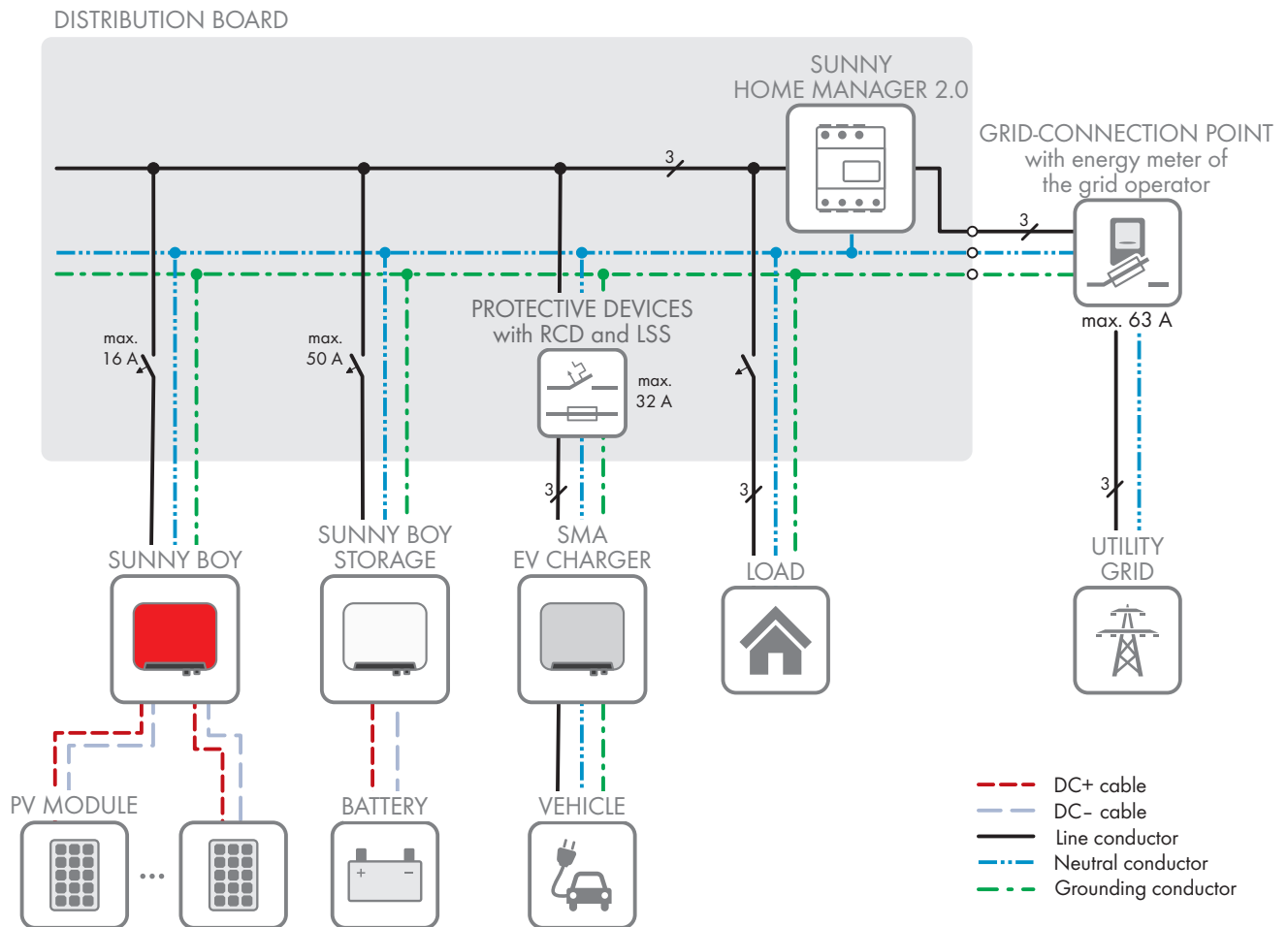


Figure 4: Circuitry overview (example with 1 EVC22-3AC-10)

Three-phase system with up to 3 SMA EV Chargers

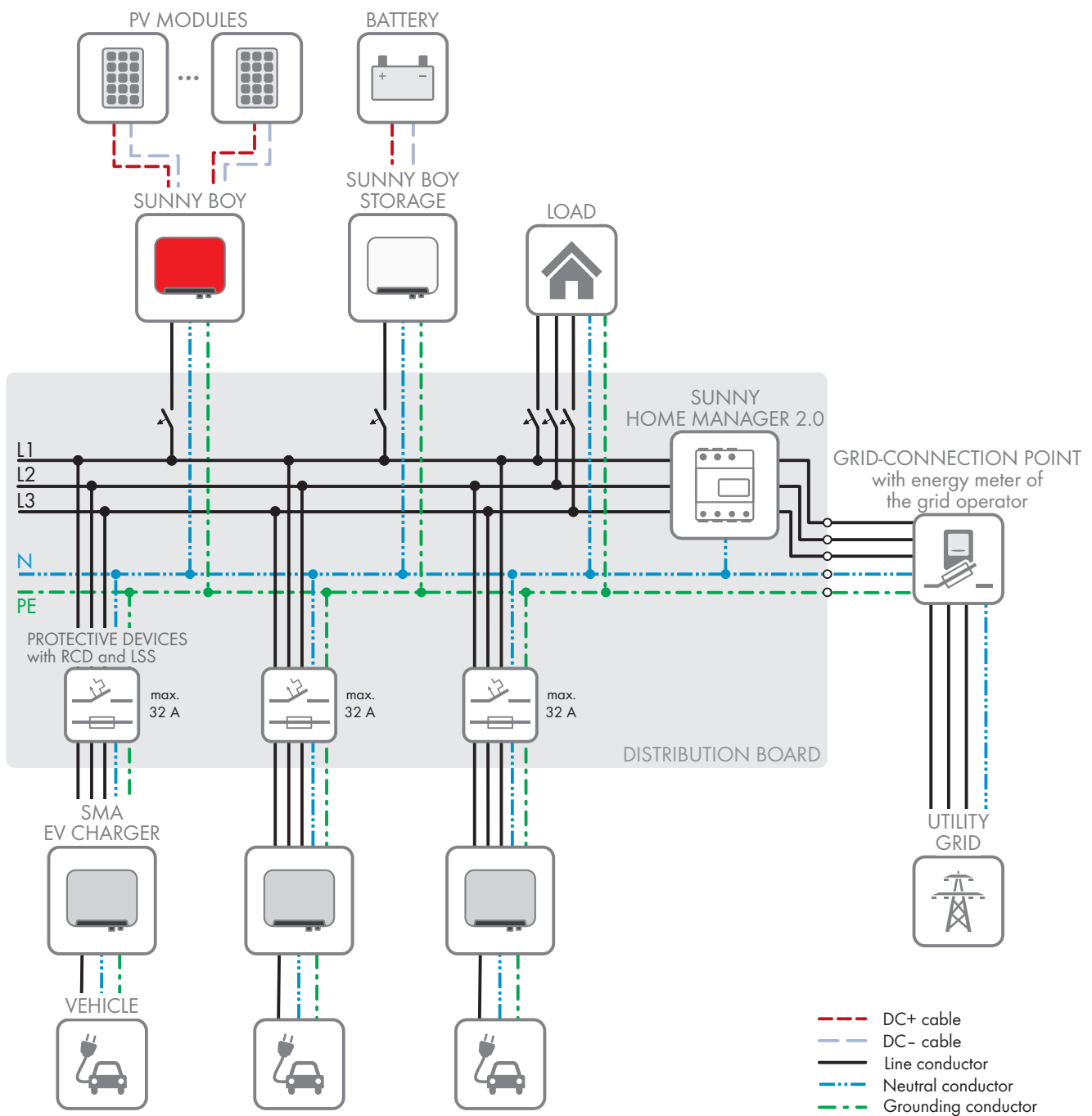


Figure 5: Circuitry overview (example with 3 EVC22-3AC-10)

4.5.2 Communication Overview

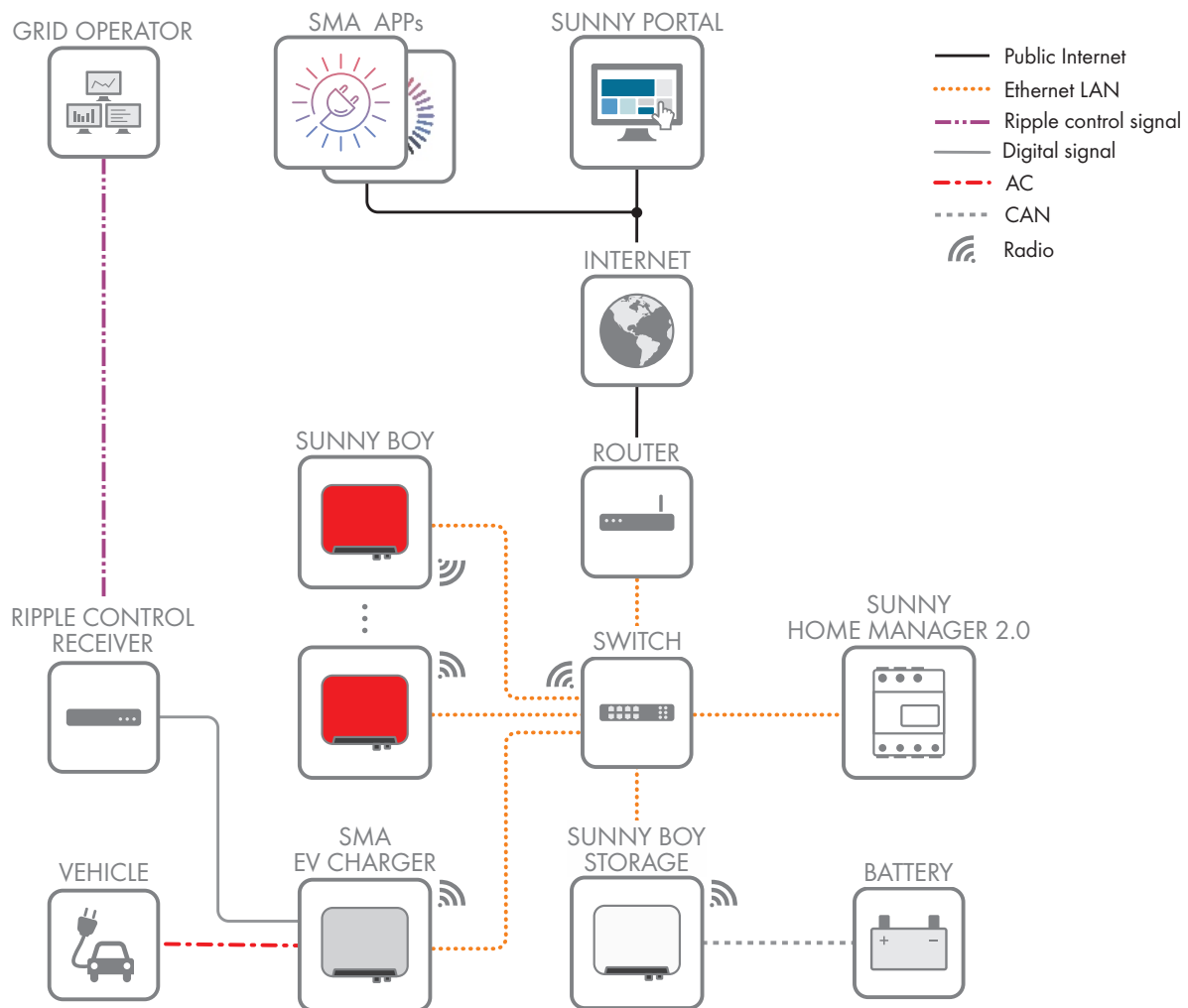


Figure 6: Design of system communication

4.6 Multi-EVC operation

Multi-EVC operation is supported from firmware version 1.02.##.R and allows the connection of a maximum of 3 SMA EV Chargers. Mixed systems with single-phase charging stations (EVC7.4-1AC-10) and three-phase charging stations (EVC22-3AC-10) are possible.

In multi-EVC operation mode, all charging stations must be connected to the utility grid on a rolling basis.

The Sunny Home Manager provides the charging stations with information on the number of active charging stations every minute.

In multi-EVC operation mode, if multiple charging stations are charging a vehicle and there is a two-phase charging vehicle among the vehicles, this vehicle is limited to single-phase charging for symmetry reasons.

If communication between Sunny Home Manager and the charging stations fails, only single-phase or three-phase charging vehicles can be charged. Two-phase charging vehicles are also limited to single-phase charging in this case. You can set fallback values that take effect in the event of a communication breakdown.

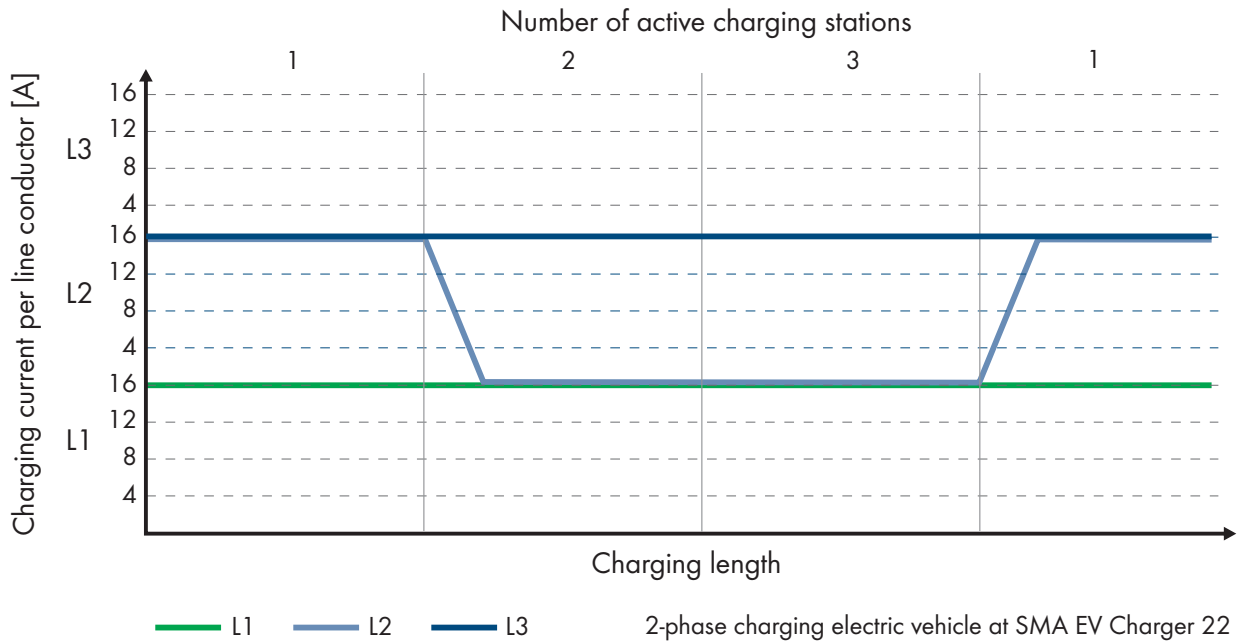


Figure 7: Limiting a two-phase charging vehicle to single-phase charging

In multi-EVC mode, the maximum charging current is limited to ensure overload protection (maximum charging current/ number of active charging stations). If, for example, 3 charging stations are connected to a point of interconnection with a nominal current of 35 A, the charging current is limited as follows:

- 1 active charging station: 32 A
- 2 active charging stations: 17.5 A per charging station
- 3 active charging stations: 11.67 A per charging station

Note that loads with high power consumption can cause the charging stations to disconnect from the utility grid to ensure overload protection.

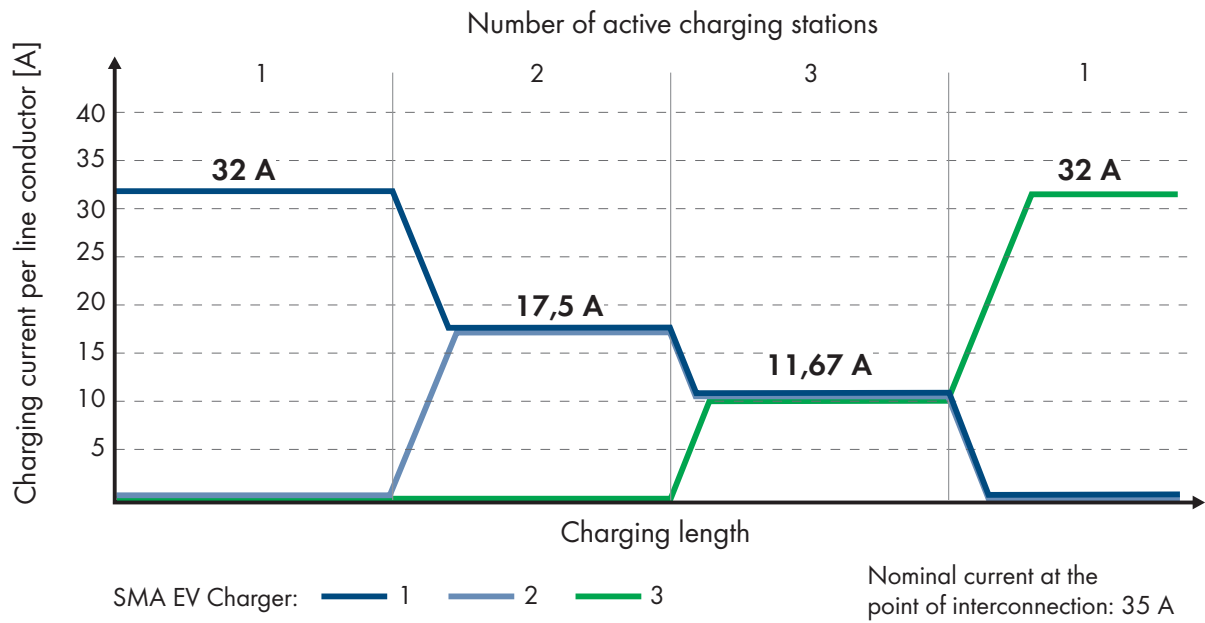


Figure 8: Charge current limitation

5 Mounting

5.1 Requirements for Mounting

Requirements for the mounting location:

⚠ WARNING

Danger to life due to fire or explosion

Despite careful construction, electrical devices can cause fires. This can result in death or serious injury.

- Do not mount the product in areas containing highly flammable materials or gases.
- Do not mount the product in potentially explosive atmospheres.

- ☐ Installation may only be carried out in places with restricted access (e.g. private property, company premises). Use of the product as a public charging station is not permitted.
- ☐ A solid, flat support surface, e.g. concrete or masonry, must be available for mounting. The difference between the outer anchoring points must not exceed 5 mm.
- ☐ The support surface for installation must be made of a non-flammable material.
- ☐ Installation must be carried out so that the connector of the charging cable is always at a height of 0.5 m to 1.5 m above floor level.
- ☐ The installation site must be suitable for the weight and dimensions of the product (see Section 16, page 66).
- ☐ The installation site must not be exposed to direct solar irradiation. If the product is exposed to direct solar irradiation, the exterior plastic parts might age prematurely and overheating might occur. When becoming too hot, the product reduces its power output to avoid overheating.
- ☐ The installation site must be selected so that the EV Charger and the vehicle can be connected with the charging cable. The charging cable must not be strained, squeezed or bent.
- ☐ No other device may be installed under the product.
- ☐ The installation site should be freely and safely accessible at all times without the need for any auxiliary equipment (such as scaffolding or lifting platforms). Non-fulfillment of these criteria may restrict servicing.
- ☐ All ambient conditions must be met (see Section 16, page 66).

Permitted and prohibited mounting positions:

- ☐ The product may only be mounted in a permitted position. This will ensure that no moisture can penetrate the product.
- ☐ The product should be mounted such that the LED signals can be read off without difficulty.

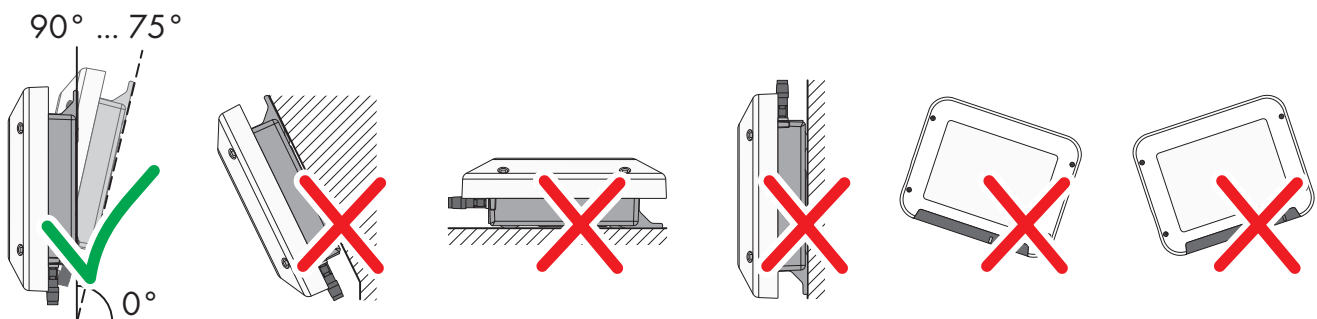


Figure 9: Permitted and prohibited mounting positions

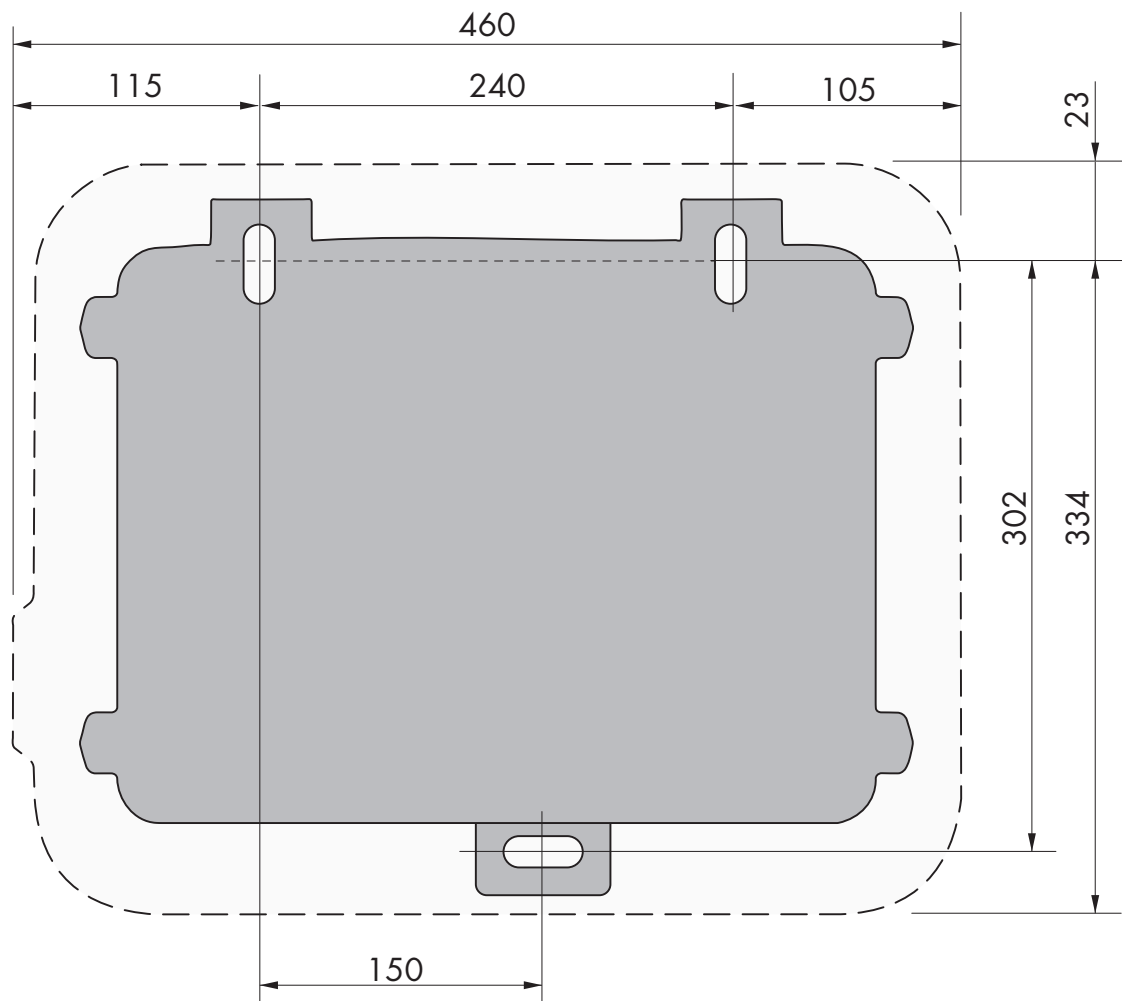
Dimensions for mounting:

Figure 10: Position of the anchoring points(Dimensions in mm)

Recommended clearances:

If you maintain the recommended clearances, adequate heat dissipation will be ensured. Thus, you will prevent power reduction due to excessive temperature.

- ☐ Maintain the recommended clearances to walls as well as to other charging stations, inverters or objects.
- ☐ If multiple products are mounted in areas with high ambient temperatures, increase the clearances between the products and ensure sufficient fresh-air supply.

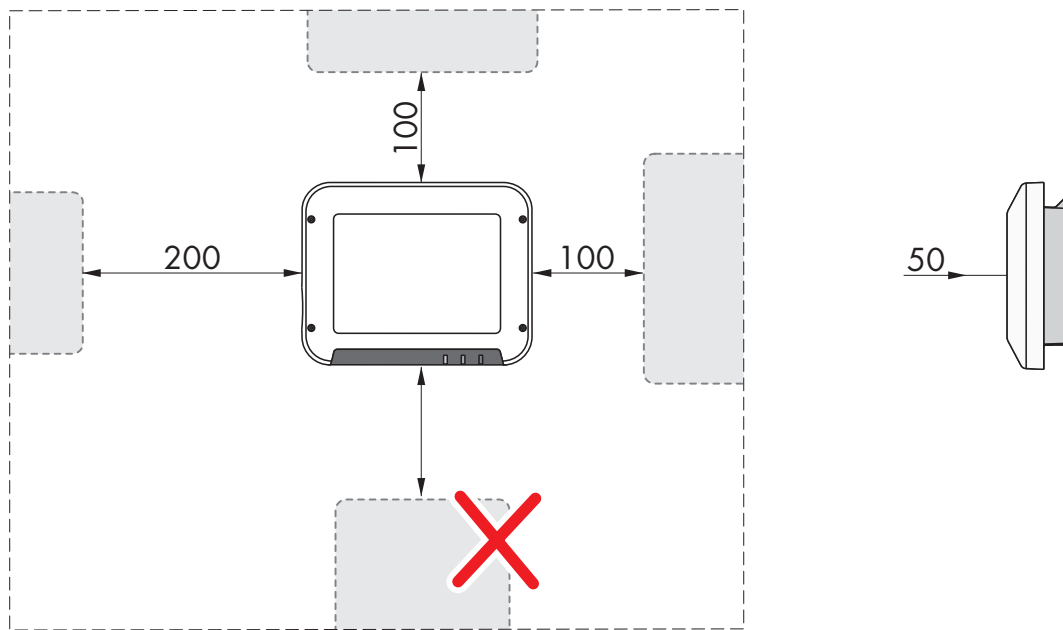


Figure 11: Recommended clearances (Dimensions in mm)

5.2 Mounting the product

Additionally required material (not included in the scope of delivery):

- 3 stainless steel hexagon head wood screws (AF 10, diameter 6 mm), screw length must be suitable for the support surface and the weight of the product (fastening bracket thickness: 4 mm)
- 1 washer (diameter: 6 mm)
- Where necessary, 3 screw anchors suitable for the support surface and the screws

⚠ CAUTION

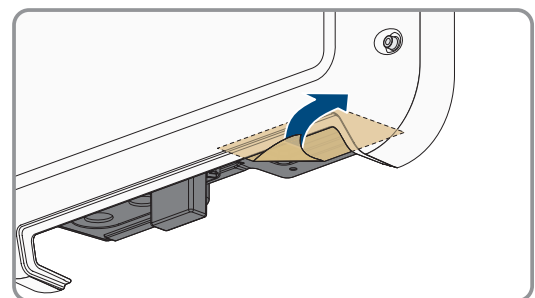
Risk of injury due to weight of product

Injuries may result if the product is lifted incorrectly or dropped while being transported or mounted.

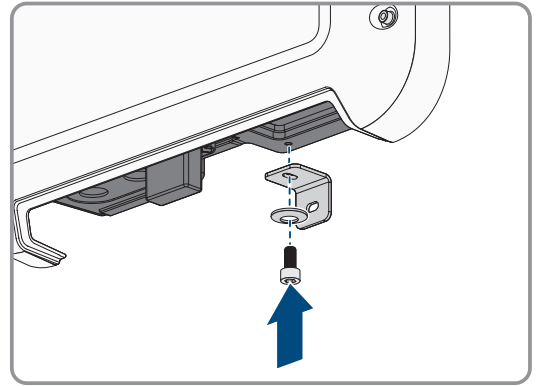
- Wear suitable personal protective equipment for all work on the product.

Procedure:

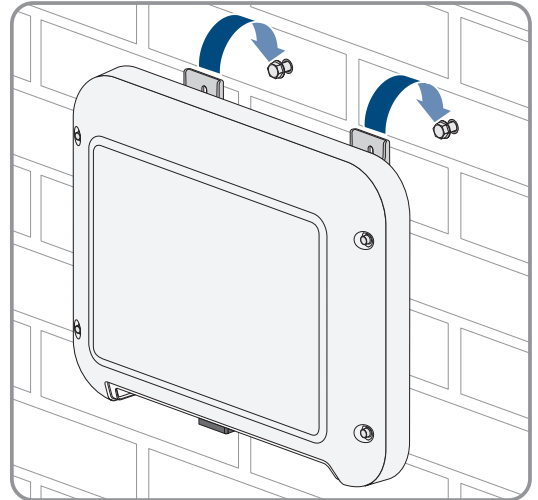
1. Mark the position of the drill holes. Align the markings horizontally.
2. Drill the holes.
3. Insert screw anchors into the drill holes if the support surface requires them.
4. Insert the screws until there is at least 6 mm clearance between the screw head and the support surface.
5. Remove the brown adhesive tape from the product.



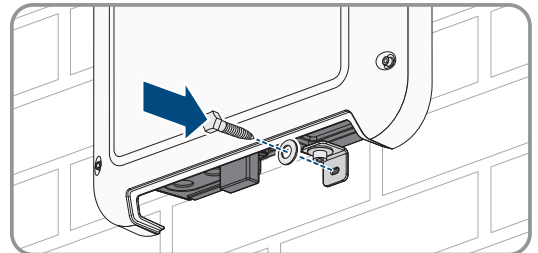
6. Attach the mounting bracket with conical spring washer and hexagon socket cap head screw to the product (torque: $6 \text{ Nm} \pm 0.3 \text{ Nm}$).



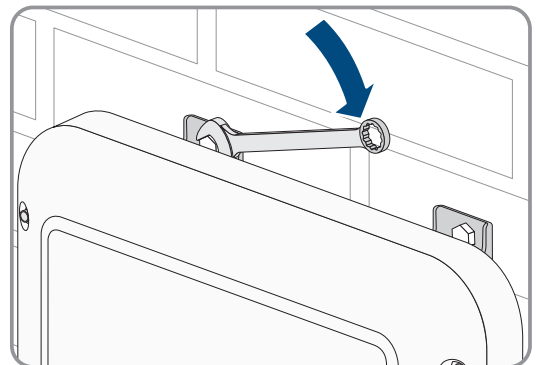
7. Hang the product onto the screws using the metal brackets.



8. Insert hexagon head screw with washer through the mounting bracket and tighten with a suitable tool (torque: $6 \text{ Nm} \pm 0.3 \text{ Nm}$).



9. Tighten the screws hand-tight using a ratchet or box wrench. When doing this you can compensate for any misalignment of the drill holes by aligning the metal brackets accordingly.



10. Ensure that the product is securely in place.

6 Electrical Connection

6.1 Overview of the Connection Area

6.1.1 View from Below

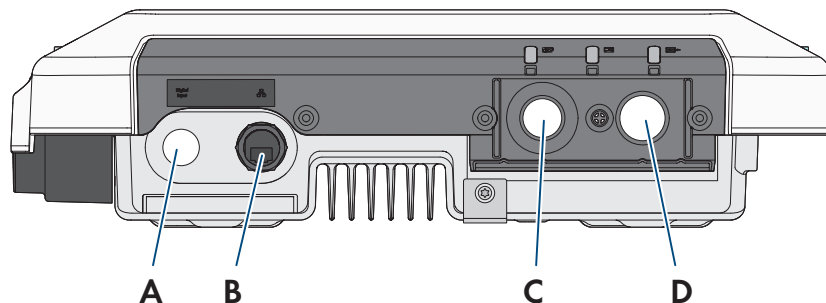


Figure 12: Bottom view of product with attached terminal cover

Position	Designation
A	Enclosure opening for cable gland M25 for the connection of a signal source to the digital input
B	Network port with protective cap
C	Opening for cable gland M25 or M32 for connecting the utility grid
D	Opening for cable gland M25 with bending protection spiral for connecting the charging cable

6.1.2 Interior View

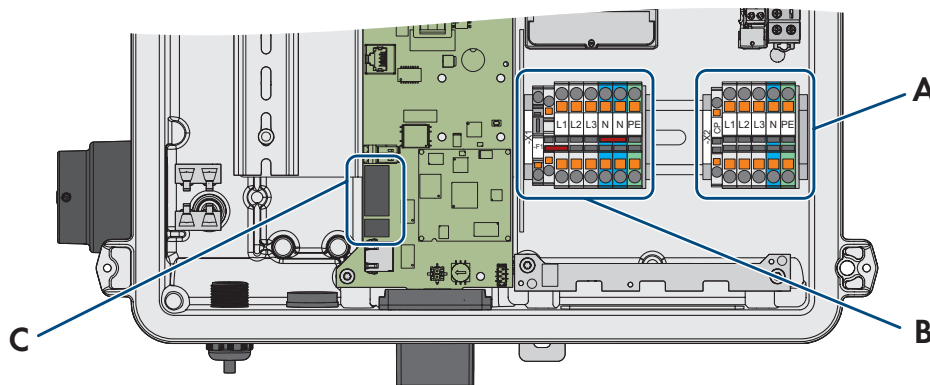


Figure 13: Connection areas in the interior of the product

Position	Designation
A	Terminal blocks for connecting the charging cable
B	Terminal blocks for connection to the utility grid
C	Terminals for connecting digital signal sources

6.2 Mounting the Connection Cap

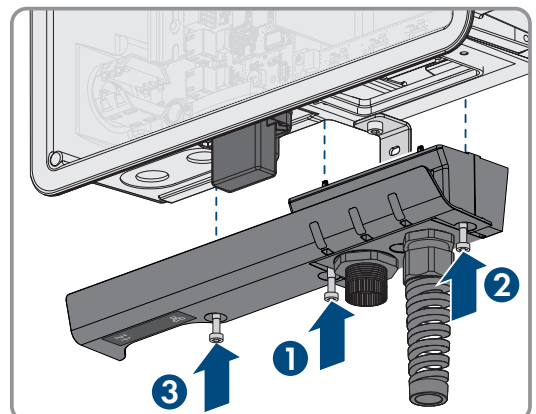
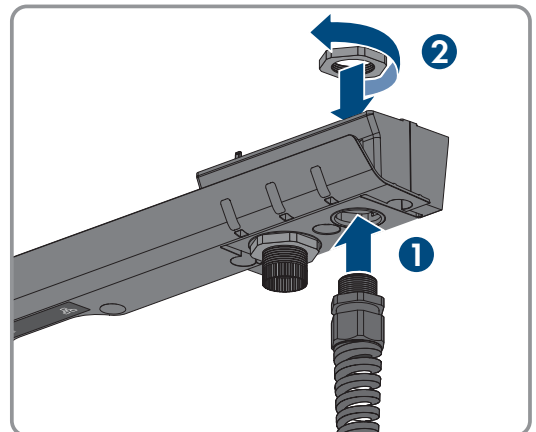
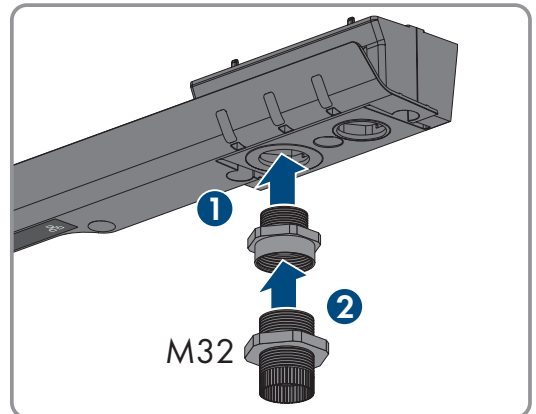
⚠ QUALIFIED PERSON

Requirement:

- ☐ Only use the supplied cable glands.

Procedure:

1. If the AC cable has a diameter of 11 mm to 17 mm, insert the M25 cable gland into the opening of the terminal cover and tighten.
2. If the AC cable has a diameter of 15 mm to 21 mm, insert the cable gland extension into the opening of the terminal cover and tighten. Then insert the M32 cable gland into the cable gland extension and tighten.
3. Insert the M25 cable gland with bending protection spiral into the opening of the terminal cover and fasten it from inside with the counter nut.
4. Put the terminal cover on the enclosure and tighten the 3 screws loosely in the given order, so that the terminal cover still has some play (TX20).



6.3 AC Connection

6.3.1 Connecting the Utility Grid

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AC cable requirements as follows:

- ☐ The maximum permitted temperature of the terminal block for AC connection of 105°C must be observed.
- ☐ External diameter: 11 mm to 21 mm
- ☐ Conductor cross-section: 6 mm² (flexible/inflexible) or 10 mm² (inflexible)
- ☐ Insulation stripping length: 12 mm
- ☐ Sheath stripping length: 20 cm
- ☐ The cable must be dimensioned in accordance with the local and national directives for the dimensioning of cables. The requirements for the minimum wire size derive from these directives. Factors influencing cable dimensioning include nominal AC current, cable type, routing method, cable bundling, ambient temperature and maximum desired line losses.

Residual-current monitoring unit:

For operation, the charging station requires an external residual-current device type A, which has a rated residual current of 30 mA. Each charging station in the system must be connected to the utility grid via a separate residual-current device and miniature circuit breaker. A DC residual-current device of 6 mA is already integrated in the charging station.

Multi-EVC operation mode:

In multi-EVC operation mode, all charging stations must be connected to the utility grid on a rolling basis (see Section 4.5.1, page 19).

A system with 3 three-phase charging stations must be connected to the utility grid on a rolling basis as follows:

- Three-phase charging station 1: L1, L2, L3
- Three-phase charging station 2: L2, L3, L1
- Three-phase charging station 3: L3, L1, L2

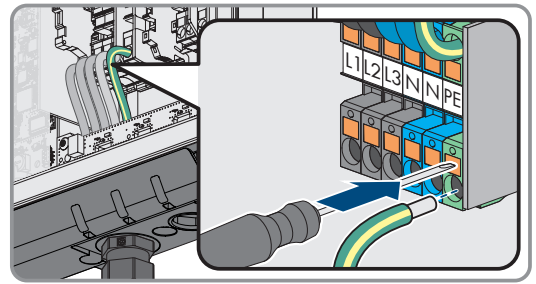
For example, a system with 2 three-phase charging stations and 1 single-phase charging station can be connected as follows:

- Three-phase charging station 1: L1, L2, L3
- Three-phase charging station 2: L2, L3, L1
- Single-phase charging station 3: L3

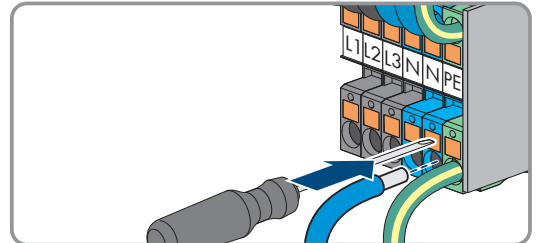
Procedure:

1. Turn off the miniature circuit breaker.
2. Dismantle the AC cable by 20 cm.
3. Strip 10 mm to 12 mm of the insulation from the insulated conductors.
4. Thread the AC cable through the cable gland into the product. If necessary, slightly loosen the swivel nut.

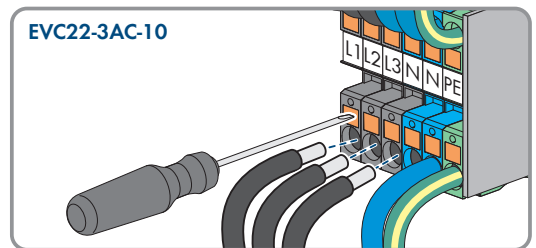
5. Connect the grounding conductor according to the labeling.



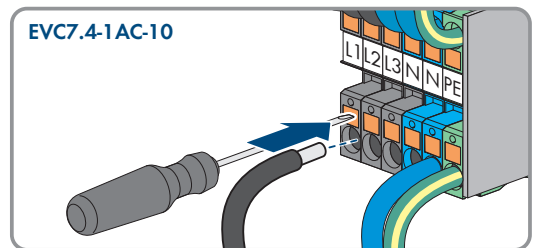
6. Connect N according to the labeling.



7. For EVC22-3AC-10, connect the conductors L1, L2 and L3 according to the labeling. Ensure the correct sequence of the line conductors.



8. For EVC7.4-1AC-10, connect the conductor L1 according to the labeling.



9. Ensure that the terminal points are allocated to the correct conductors.

10. Tighten the swivel nut on the cable gland hand-tight.

6.3.2 Connecting Additional Grounding

⚠ QUALIFIED PERSON

If additional grounding or equipotential bonding is required locally, you can connect additional grounding to the product. This prevents touch current if the grounding conductor at the terminal for the AC cable fails.

Additionally required material (not included in the scope of delivery):

- ☐ 1 clamping bracket M5
- ☐ 1 hexagon socket cap head screw M5 x 16
- ☐ 1 washer M5
- ☐ 1 spring washer M5

Cable requirements:

i Use of fine-stranded conductors

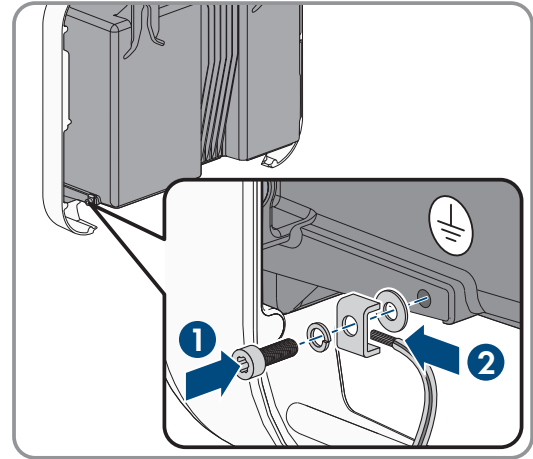
You can use an inflexible or a flexible, fine-stranded conductor.

- When using a fine-stranded conductor, it has to be double crimped by a ring terminal lug. Make sure that no insulated conductor is visible when pulling or bending. This will ensure sufficient strain relief by means of the ring terminal lug.

- ☐ Grounding cable cross-section: max. 10 mm²

Procedure:

1. Strip off 12 mm of the grounding cable insulation.
2. Insert the screw through the spring lock washer, the clamping bracket and the washer.
3. Lightly screw the screw into the thread of the connection point for the additional grounding.
4. Guide the grounding cable between the washer and clamping bracket and tighten the screw (TX25) (torque: 6 Nm).



6.4 Connecting the Charging Cable

⚠ QUALIFIED PERSON

Requirement:

- ☐ Only use the supplied charging cable or the charging cables approved by SMA as accessories.
- ☐ Do not use adapters or extensions for the charging cable.

NOTICE

Damage to the vehicle due to incorrect connection of the charging cable to the charging station

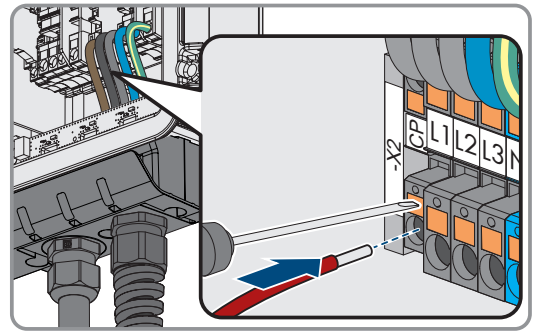
If the charging cable is not correctly connected to the charging station and the vehicle is charged via it, this may result in damage to the vehicle.

- Connect the charging cable and especially the CP cable to the terminal block according to the labeling and the correct line conductor assignment. To do this, proceed as follows.

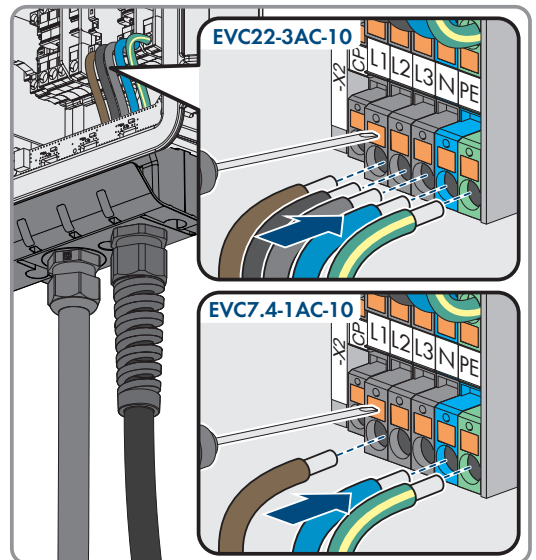
Procedure:

1. Disconnect the product from voltage sources (see Section 9, page 50).
2. Loosen the bending protection spiral from the cable gland and lead it over the charging cable.
3. Lead the charging cable through the bending protection spiral and the cable gland into the product
4. Tighten the bending protection spiral on the cable gland.

5. Connect the CP cable to the terminal block CP. Open the terminal point with a screwdriver and insert the conductor into the terminal point until it stops.



6. For EVC22-3AC-10, connect the conductors L1, L2, L3, N and grounding conductor according to the labeling. For EVC7.4-1AC-10, connect the conductors L1, N and grounding conductor according to the labeling. Open the terminal point with a screwdriver and insert each conductor into the respective terminal point until it stops.



7. Ensure that the terminal points are allocated to the correct conductors.
8. Tighten the swivel nut on the cable gland hand-tight.

6.5 Connecting Signal Source to Digital Input

⚠ QUALIFIED PERSON

It is possible to connect a digital signal source (e.g. ripple control receiver or remote terminal unit) to the digital input of the product. This must be connected if it is prescribed by the grid operator.

Information on EnWG §14a: Via the digital input, known as the grid operator interface, the SMA EV Charger can actively respond to grid operator specifications to prevent grid overload and temporarily adjust the charging power to the corresponding specifications (in this specific case, 4.2 kW). The type of external control device (control box or ripple control receiver) is determined by the local grid operator.

Additionally required material (not included in the scope of delivery):

- ☐ Bootlace ferrules (if necessary)

Requirements:

- ☐ The signal source must be technically suitable for connection to the digital inputs (see Section 16, page 66).
- ☐ The connected digital signal source has a safe separation to the grid potential. When connecting the digital signal source the potential-free contact or an external potential-free contact is used.

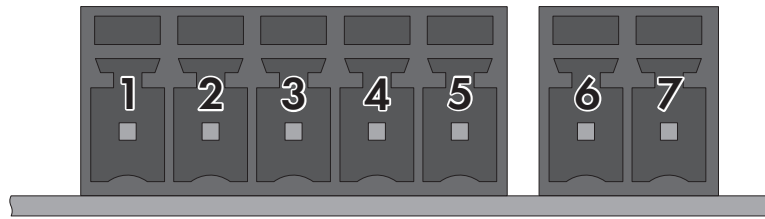
Overview:

Figure 14: Pin assignment

Pin	Pin assignment	Explanation
1	DI1	Digital input
2	DI2	Digital input
3	DI3	Digital input
4	DI4	Digital input
5	24 V	Voltage supply output
6	DI5	Fast stop
7	24 V	Voltage supply output

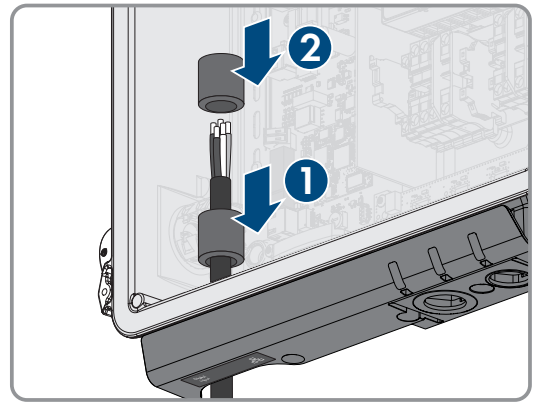
Circuitry overview:

Figure 15: Connection of a Ripple Control Receiver

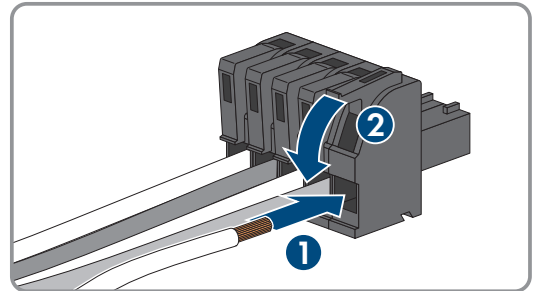
Procedure:

1. Disconnect the product from voltage sources (see Section 9, page 50).
2. Connect the connection cable to the digital signal source (see the manual from manufacturer).
3. Dismantle the connection cable 150 mm.
4. Strip off the insulation of required conductors by 6 mm.
5. Trim unused insulated conductors flush with the cable sheath.
6. If necessary, fit the conductors with bootlace ferrules.
7. Pass the connecting cable through the cable gland for connecting a signal source to the digital input.
8. Feed the connection cable through the enclosure opening for connecting a signal source to the digital input into the product.

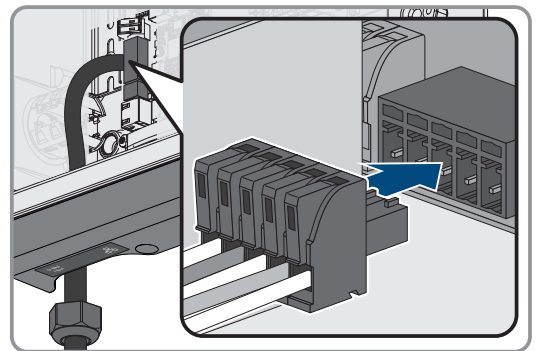
9. Guide the 2 ferrites from the scope of delivery over the cable.



10. Connect the conductors to the terminal block supplied. Observe the pin assignment. If only the fast-stop function is to be used, connect the conductors only to the 2-pole terminal block. If all functions are to be used, connect the conductors to the 5-pole terminal block.



11. Plug the terminal block into the socket for connecting a digital signal source.



12. Ensure that the conductors are plugged into the terminal points tightly by pulling slightly on the conductors.

13. Tighten the cable gland hand-tight.

6.6 Connecting the Network Cables

⚠ QUALIFIED PERSON

⚠ DANGER

Danger to life due to electric shock in case of overvoltages and if surge protection is missing

Overvoltages (e.g., in the event of a flash of lightning) can be further conducted into the building and to other connected devices in the same network via the network cables or other data cables if there is no surge protection. Touching live parts and cables results in death or lethal injuries due to electric shock.

- Ensure that all devices in the same network are integrated in the existing overvoltage protection.
- When laying the network cable outdoors, ensure that there is suitable surge protection at the network cable transition from the product outdoors to the network inside the building.
- The Ethernet interface of the product is classified as "TNV-1" and offers protection against overvoltages of up to 1.5 kV.

NOTICE

Product damage due to moisture penetration

Moisture penetration can damage the product and impair its functionality of the product.

- Connect the network cable with the supplied RJ45 protective sleeve to the product.

Additionally required material (not included in the scope of delivery):

- ☐ 1 network cable

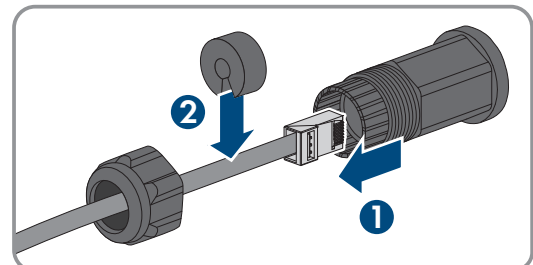
Network cable requirements:

The cable length and quality affect the quality of the signal. Observe the following cable requirements:

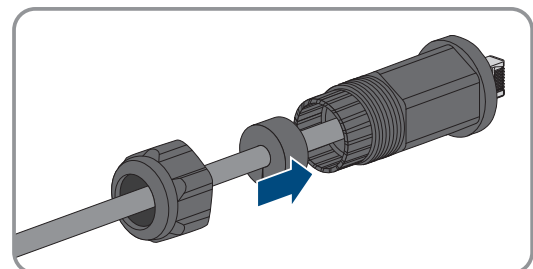
- ☐ Cable type: 100BaseTx
- ☐ Cable category: minimum CAT5e
- ☐ Plug type: RJ45 of Cat5, Cat5e or higher
- ☐ Shielding: SF/UTP, S/UTP, SF/FTP or S/FTP
- ☐ Number of insulated conductor pairs and insulated conductor cross-section: at least 2 x 2 x 0.22 mm²
- ☐ Maximum cable length between 2 nodes when using patch cables: 50 m
- ☐ Maximum cable length between 2 nodes when using installation cables: 100 m
- ☐ UV-resistant for outdoor use.

Procedure:

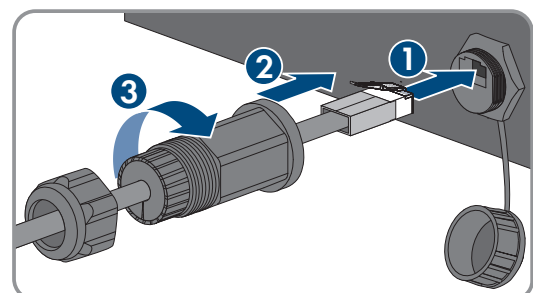
1. Disconnect the product from voltage sources (see Section 9, page 50).
2. Unscrew the protective cap from the network port.
3. Press the cable support sleeve out of the threaded sleeve.
4. Feed the network cable through the swivel nut and threaded sleeve. Attach the cable support sleeve to the network cable.



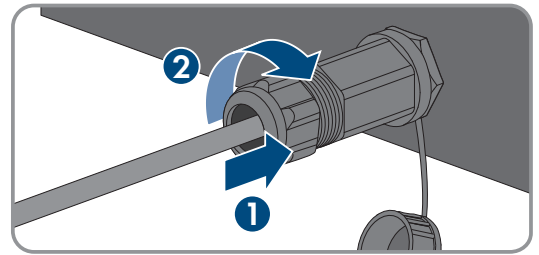
5. Press the cable support sleeve into the threaded sleeve.



6. Insert the network plug of cable into the product's network port. Ensure that the cable is correctly locked in place. Turn the threaded sleeve onto the thread of the network port on the product.



7. Screw the swivel nut onto the threaded sleeve.



8. If you would like to establish a direct connection, connect the other end of the network cable directly to the end device.
9. If you would like to integrate the product into a local network, connect the other end of the network cable to the local network (e.g. via a router).

7 Commissioning

7.1 Commissioning Procedure

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This section describes the commissioning procedure and gives an overview of the steps you must perform in the prescribed order.

Procedure	See
1. Commission the product.	Section 7.2, page 38
2. Establish a connection to the user interface of the product. There are various connection options to choose from for this: • Direct connection via WLAN • Connection via WLAN in the local network • Connection via Ethernet in the local network	Section 8.1, page 43
3. Change the network configuration, if necessary. The automatic network configuration recommended by SMA Solar Technology AG via DHCP server is activated by default.	Section 7.3, page 41
4. Carry out the configuration using the installation assistant. Make the following settings: • Administrator registration • Device configuration (settings at the point of interconnection, charging settings) • Product settings • Adding Devices (Energy Meter, Sunny Home Manager 2.0) • Grid management services	Section 7.4, page 41
5. To monitor the system in the Sunny Portal and view the data visually, create a user account in the Sunny Portal and create a system in the Sunny Portal or add devices to an existing system.	https://www.sunnyportal.com

7.2 Commissioning the Product

QUALIFIED PERSON

NOTICE

Applies only to EVC22-3AC-10: Damage to the vehicle during emergency or battery-backup operation

During emergency or battery-backup operation, three-phase loads may be connected to a single-phase utility grid with phase coupling. This can damage the vehicle.

- Emergency and battery-backup operation must be clarified with and approved by the vehicle manufacturer in advance.
- Ensure that, during phase coupling, only single-phase loads are connected to the battery-backup grid.

i Observe the following information about the charging cable

- Always pull the charging cable out of the port by the connector, never by the cable itself.
- The charging cable must not be mechanically damaged (kinked, pinched, or run over) and the contact area must not make contact with heat sources, dirt, or water.
- Never use defective, worn, or dirty charging plugs.
- Do not use extension cord sets.
- Do not use adapters of any kind.
- Follow the information and manuals for your vehicle before using the charging station to charge the vehicle.
- Use the protective cap when the charging cable is not in use.
- Do not put the charging cable under tension. Do not touch the pin contacts.
- Avoid knots in the charging cable.
- Unwind the charging cable all the way when charging.
- The charging cable is a trip hazard when lying on the ground. Store the charging cable properly or use the cable hanger when the charging process is completed.
- The charging cable is a wearing part and must be visually inspected regularly (before each charging process).

Requirements:

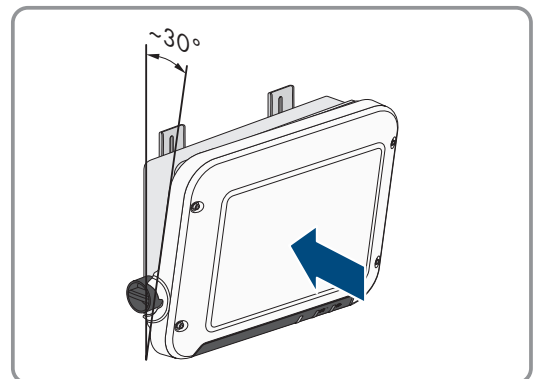
- ☐ The AC circuit breaker must be correctly rated and mounted.

Information: the charging station does not have a dedicated disconnect switch. The miniature circuit breaker in the supply line serves as a disconnect device.

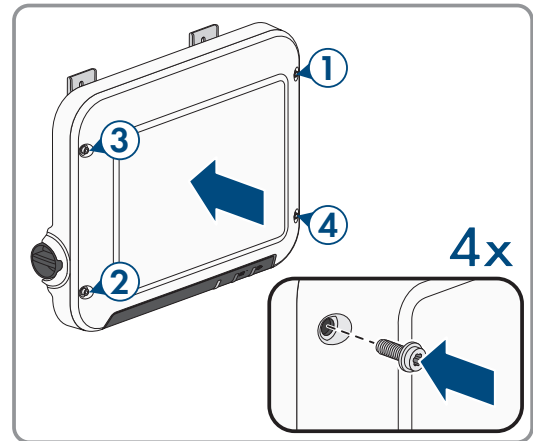
- ☐ The product must be correctly mounted.
- ☐ All cables must be correctly connected.
- ☐ The enclosure lid must be mounted.

Procedure:

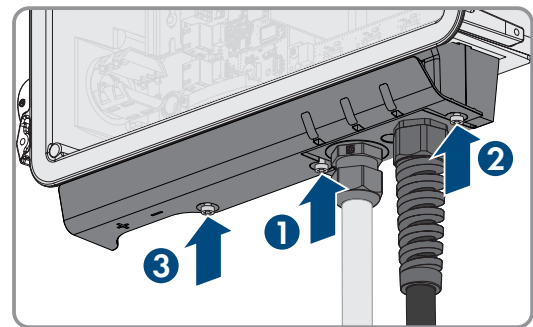
1. Place the enclosure lid slightly tilted on the terminal cover and then close it completely.



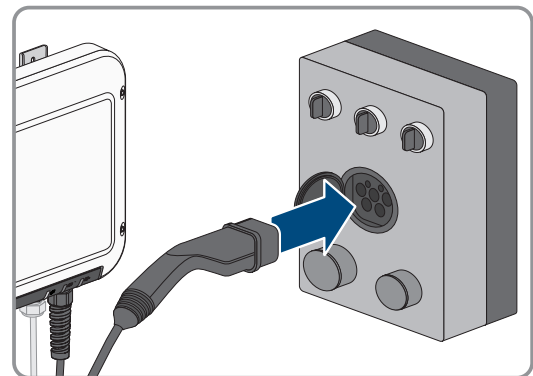
2. Tighten the screws in the order shown (TX25, torque: $6 \text{ Nm} \pm 0.3 \text{ Nm}$). Finally, retighten the first screw.



3. Tighten the 3 screws of the terminal cover in the specified sequence (TX20, torque: 3.5 Nm).

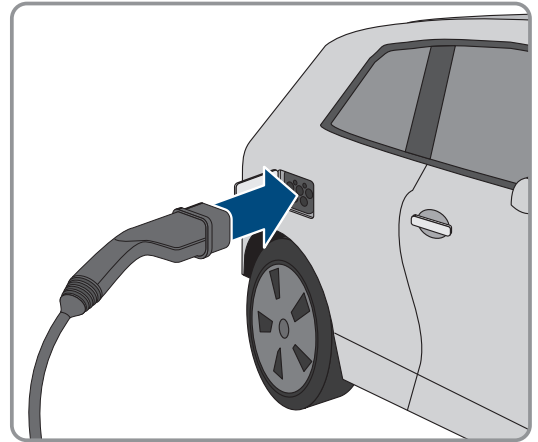


4. Wrap the charging cable around the enclosure.
5. Close unused enclosure openings with cable glands.
6. Ensure that all cable glands have seal inserts and that the seal inserts have not moved.
7. Switch on the AC circuit breaker.
8. Wait until the product is in operation. The procedure takes approx. 4 minutes. Meanwhile, the current operating state of the product is indicated by the LEDs (see Section 4.4, page 16).
9. Ensure that the charging station is in fast charging mode.
10. Perform the test of the charging station according to IEC 61851 with a suitable measuring device for charging stations. To do this, connect the charging cable to the measuring device.

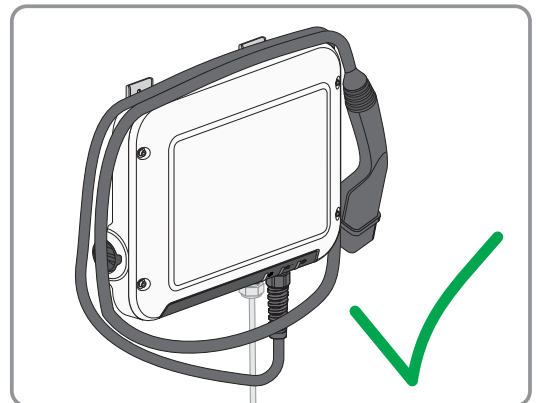


11. Fill out the test report according to IEC 61851. An example of a test report can be found at www.SMA-Solar.com.
12. If necessary, rectify any defects found.

13. After successful testing, connect the charging cable to the vehicle.



- ☑ All 3 LEDs light up. The start-up phase begins.
 - ☑ All 3 LEDs go out again after approximately 90 seconds.
 - ☑ Depending on the available power, the green LED pulses or is continuously illuminated. The vehicle is charged.
14. If the green LED is still flashing, the conditions for activating charging operation are not yet met. As soon as the conditions for charging are met, the charging station starts charging the vehicle.
15. If the red LED lights up, an event has occurred. Use the event message to find out which event has occurred and, if necessary, initiate countermeasures.
16. After charging, disconnect the charging cable from the vehicle and wrap it around the product.



7.3 Changing the Network Configuration

⚠ QUALIFIED PERSON

After you connect to the user interface for the first time (see Section 8.1, page 43), the welcome page opens.

On the welcome page, you can change the network configuration. The automatic network configuration recommended by SMA Solar Technology AG via DHCP server is activated by default. Only change the network configurations if the default configuration is not suitable for your network.

Procedure:

1. Select **Change network configuration** on the welcome page.
2. Carry out network configuration and confirm with [**Save**].

7.4 Configuring the product

⚠ QUALIFIED PERSON

After you connect to the user interface for the first time, the welcome page opens.

If you click on **[Next]**, the commissioning assistant starts. With the commissioning assistant, you can create an administrator account to access and configure the product.

i Limitation of the maximum charging power password-protected by the installer possible

The maximum charging power of the charging station can be limited by the installer with password protection as part of the commissioning process. In particular, the limitation of the maximum charging power of the EVC22-3AC-10 to 11 kVA is possible. In this case, the consent of the grid operator for the use of the charging station is not required in accordance with Section 19 (2) NAV. A subsequent increase of the maximum charging power by the user is excluded by the rights and roles concept. The change in the maximum charging power (WMaxIn) is documented and visualized in the internal event log of the charging station and in Sunny Portal.

Procedure:

1. Click on **[Next]** on the welcome page.
2. Enter the administrator account data and click on **[Next]**. Observe that only 1 user with administrator authorization can be created.
 - ☒ The administrator account has been created.
3. Follow the steps of the commissioning assistant and configure your system accordingly. For every setting made in a step, click on **[Next]**.
 - ☒ When all steps are completed, the information page is displayed.
4. To open the user interface home page and view product data, click on **[Next]**.

8 Operation

8.1 Establishing a Connection to the User Interface

8.1.1 Establishing a direct connection via WLAN

You have several options to connect the product to a smart device. The procedure can be different depending on the devices. If the procedures described do not apply to your device, establish the direct connection via Wi-Fi as described in the manual of your device.

The following connection options are available:

- Connection to SMA 360° App
- Connection with WPS
- Connection with Wi-Fi network search

Requirements:

- ☐ The product must be commissioned.
- ☐ A smart device (e.g. smartphone, tablet or laptop) must be available.
- ☐ The respective latest version of one of the following web browsers must be installed on the smart device: Chrome, Edge, Firefox or Safari.
- ☐ JavaScript must be enabled in the web browser of the smart device.

SSID, IP address and WLAN password

- SSID in Wi-Fi: **https://SMA[serial number]** (e.g. **https://SMA0123456789**)
- Device-specific Wi-Fi password: see WPA2-PSK on the type label of the product
- Standard access address for a direct connection via WLAN outside of a local network: **http://smalogin.net** or **192.168.12.3**

Connection to SMA 360° App

Requirements:

- ☐ A smart device with camera (e.g. smartphone or tablet) must be available.
- ☐ The SMA 360° App must be installed on the smart device.
- ☐ An user account for Sunny Portal must already exist.

Procedure:

1. Open the SMA 360° App and login with the Sunny Portal account details.
2. Select **Setup** in the menu.
3. Select **Access user interface** in the menu.
4. Select **Enable scanner** in the menu.
5. Scan the QR Code on your product via the SMA 360° App.
 - ☒ The smart device automatically connects to the product. The web browser of your smart end device opens and the welcome or login page of the user interface is displayed.
6. If the web browser of the smart end device does not open automatically and the welcome or login page of the user interface is not displayed, open the web browser and enter **http://smalogin.net** in the address bar.

Connection with WPS

Requirement:

- ☐ The smart device must have a WPS function.

Procedure:

1. Enable WPS function on the product. Tap on the enclosure lid of the product twice.
☒ The blue LED flashes quickly for approx. two minutes. The WPS function is active during this time.
2. Enable the WPS function on your smart device.
3. Open the web browser of your smart end device and enter **http://smalogin.net** in the address bar.

Connection with Wi-Fi network search

1. Search for Wi-Fi networks with your smart device.
2. Select the SSID of the product **SMA[serial number]** in the list with the detected Wi-Fi networks.
3. Enter the device-specific Wi-Fi password (see WPA2-PSK on the type label).
4. Open the web browser of your smart end device and enter **http://smalogin.net** in the address bar.
☒ The welcome or login page of the user interface is displayed.
5. If the login page of the user interface does not open, enter the IP address **192.168.12.3** or, if your smart device supports mDNS services, **SMA[serial number].local** or **http://SMA[serial number]** in the address bar of the web browser.

8.1.2 Establishing a Connection via Ethernet in the local network**i New IP address for connecting with a local network**

If the product is connected to a local network (e.g. via a router), the product will receive a new IP address. Depending on the type of configuration, the new IP address will be assigned automatically by the DHCP server (router) or manually by you. Upon completion of the configuration, the product can only be reached via the following access addresses:

- Generally applicable access address: IP address manually assigned or assigned by the DHCP server (router) (identification via network scanner software or network configuration of the router).
- Access address for Apple and Linux systems: **https://SMA[serial number].local** (e.g. https://SMA0123456789.local)
- Access address for Windows and Android systems: **https://SMA[serial number]** (e.g. https://SMA0123456789)

i Communication disturbances in the local network

The IP address range 192.168.12.0 to 192.168.12.255 is occupied for communication amongst SMA products and for direct access to SMA products.

Communication problems might occur if this IP address range is used in the local network.

- Do not use the IP address range 192.168.12.0 to 192.168.12.255 in the local network.

Requirements:

- ☐ The product must be connected to the local network via a network cable (e.g. via a router).
- ☐ The product must be integrated into the local network. Tip: There are various methods of integrating the product into the local network with the aid of the installation assistant.
- ☐ A smart device (e.g. smartphone, tablet or laptop) must be available.
- ☐ The smart device must be in the same local network as the product.
- ☐ The respective latest version of one of the following web browsers must be installed on the smart device: Chrome, Edge, Firefox or Safari.

Procedure:

1. Open the web browser of your smart device. Enter the IP address of the product in the address bar of the web browser.

2. Web browser displays warning

After the access address of the product has been entered, a message might appear indicating that the connection to the user interface of the product is not secure.

- Continue loading the user interface (scroll to bottom and click proceed/advance).

☒ The login page of the user interface opens.

8.1.3 Establishing a Connection via WLAN in the Local Network

New IP address for connecting with a local network

If the product is connected to a local network (e.g. via a router), the product will receive a new IP address. Depending on the type of configuration, the new IP address will be assigned automatically by the DHCP server (router) or manually by you. Upon completion of the configuration, the product can only be reached via the following access addresses:

- Generally applicable access address: IP address manually assigned or assigned by the DHCP server (router) (identification via network scanner software or network configuration of the router).
- Access address for Apple and Linux systems: **https://SMA[serial number].local** (e.g. https://SMA0123456789.local)
- Access address for Windows and Android systems: **https://SMA[serial number]** (e.g. https://SMA0123456789)

Requirements:

- ☐ The product must be commissioned.
- ☐ The product must be integrated into the local network. Tip: There are various methods of integrating the product into the local network with the aid of the installation assistant.
- ☐ A smart device (e.g. smartphone, tablet or laptop) must be available.
- ☐ The smart device must be in the same local network as the product.
- ☐ The respective latest version of one of the following web browsers must be installed on the smart device: Chrome, Edge, Firefox or Safari.

Procedure:

- Enter the IP address of the product in the address bar of the web browser.
 - ☒ The login page of the user interface opens.

8.2 Design of the User Interface

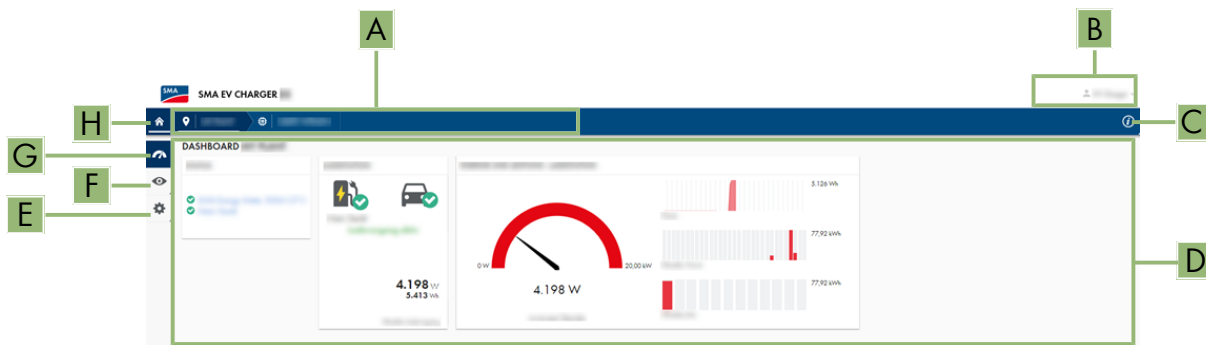


Figure 16: Design of the user interface (example)

Position	Designation	Description
A	Focus navigation	Enables the navigation between the following levels: • System • Device
B	User settings	Provides the following functions: • Configuring personal data • Log out
C	System information	Displays the following information: • System time • Firmware version • Serial number • Licenses • Manual (eManual)
D	Content area	Displays the dashboard or content of the selected menu
E	Configuration	Offers different configuration options, depending on the user's rights and the selected level: • Device properties • Parameters • Network configuration • Updates • Device configuration
F	Monitoring	Displays depending on the selected device the following information on the current level and the superior levels: • Energy and power • Instantaneous values • Status list • Event monitor

Position	Designation	Description
G	Dashboard	Displays instantaneous values of the device currently selected
H	Home	Opens the user interface homepage

8.3 Activate WPS Function

The WPS function can be used for different purposes:

- Automatic connection to a network (e.g. via router)
- Direct connection between the product and a smart device

Depending on the intended application of the WPS function, the procedure for activation will vary.

Activating WPS function for automatic connection to a network

Requirements:

- ☐ WLAN must be activated in the product.
- ☐ WPS must be activated on the router.

Procedure:

1. Open the user interface (see Section 8.1, page 43).
 2. Log into the user interface.
 3. Select the menu item **Network configuration** in the menu **Configuration**.
 4. Click on the button **Use WPS** in the **Wi-Fi** section.
 5. Click on **Save**.
- ☒ The WPS function is activated and the automatic connection to the network can be established.

Activating the WPS function for direct connection to the smart device.

- Tap on the enclosure lid of the product twice. This will activate the WPS function on the product for about 2 minutes. Activation is signaled by rapid flashing of the blue LED.

8.4 Changing the Password

The password for the currently logged in user can be changed in the user interface of the product.

Procedure:

1. Open the user interface (see Section 8.1, page 43).
2. Log into the user interface.
3. Select the menu **User settings**.
4. Select [**Personal data**].
5. Click on [**If you want to change your password, please click here**].
6. To change the password, first enter the old password and then the new password repeatedly.
7. Click on [**Save**] to save the changes.

8.5 Properties of Charging Modes

The EV Charger has 3 charging modes that can be switched between. The effect of the setting on the charging mode is described below.

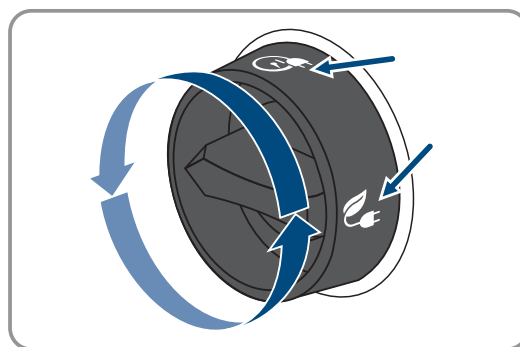
Icon	Explanation
	Fast charging The vehicle is charged with the maximum available power. There is no optimization here with regard to electricity costs and the use of PV energy. The charging power is limited by the maximum charging power of the vehicle, the house connection and the EV Charger.
	Intelligent charging - Charging with PV surplus The vehicle is charged with excess PV energy that would otherwise be fed into the utility grid or cut off. The Sunny Portal is used to set how high the proportion of excess PV energy must be in order for the EV Charger to charge the vehicle. The Sunny Home Manager schedules the charging by the EV Charger only as soon as it can fulfill the set optimization target. Depending on the configuration of the priority of the optional appliances, the EV Charger is taken into account by Sunny Home Manager before or after other appliances when scheduling. In this charging mode, it is not possible to ensure that the vehicle is charged in all cases. If the surplus PV energy is not sufficient for charging, no charging takes place.
	Intelligent charging - Charging with specified target The EV Charger is operated as a necessary appliance with as much surplus PV energy as possible. By entering a departure time and an amount of energy to be charged in the SMA Energy App, the Sunny Home Manager intelligently plans the charging process. The Sunny Home Manager enables charging at minimum cost and with maximum utilization of PV power with sufficient charging to reach the destination at the entered departure time. After sufficient charging for the target range, the EV Charger automatically switches to Charging with specified target .

8.6 Changing the Charging Mode

To switch between the 3 EV Charger modes, proceed as follows:

Switching between fast charging and intelligent charging

- Turn the rotary switch on the product so that the symbol of the required charging mode is visible.



Switch between charging with PV surplus and charging with specified target

1. Open the SMA Energy app.
2. Select **[e-mobility]** in the lower bar.
 - ☒ Information on the current charging mode is displayed.
3. Select the required charging mode in the drop-down list and make settings if necessary.

8.7 Activating the Charging Release via App

To protect the charging station from unauthorized access, you can lock the charging station with this function. After activation, the charging station is locked and each charging process must be released via the SMA Energy App. When charging is complete, the charging station is locked again.

Procedure:

1. Log into the user interface.
2. Select the menu item **Device configuration** in the menu **Configuration**.
3. In the **Load settings** section, activate the **Load release via app** field.

8.8 Setting the Brightness of LEDs

You have the possibility to adjust the brightness of the LEDs. By default, the brightness is set to **High**.

Procedure:

1. Log into the user interface.
2. Select the menu item **Parameter** in the menu **Configuration**.
3. Select the parameter **Brightness of LEDs** and select the desired brightness in the drop-down list under **Value**.
4. Click on **Save**.

8.9 Deleting the Admin Account

In case the password gets lost, the admin account can be reset and newly created. All system data will be retained.

Requirements:

- ☐ The device key from the label on the back of the supplied manual must be present.

Procedure:

1. Open the user interface of the product.
 2. Select the **[Delete admin account?]** button.
 3. Enter the device key from the label on the back of the supplied manual.
 4. Select **[Delete]**.
- ☒ The product is performing a restart. Then a new admin account can be created.

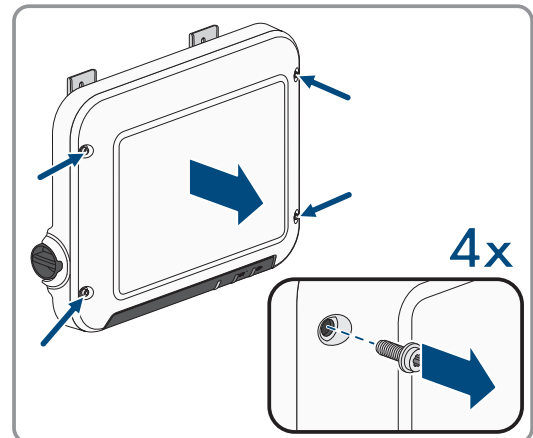
9 Disconnecting the product from voltage sources

⚠ QUALIFIED PERSON

Prior to performing any work on the product, always disconnect it from all voltage sources as described in this section. Always adhere to the prescribed sequence.

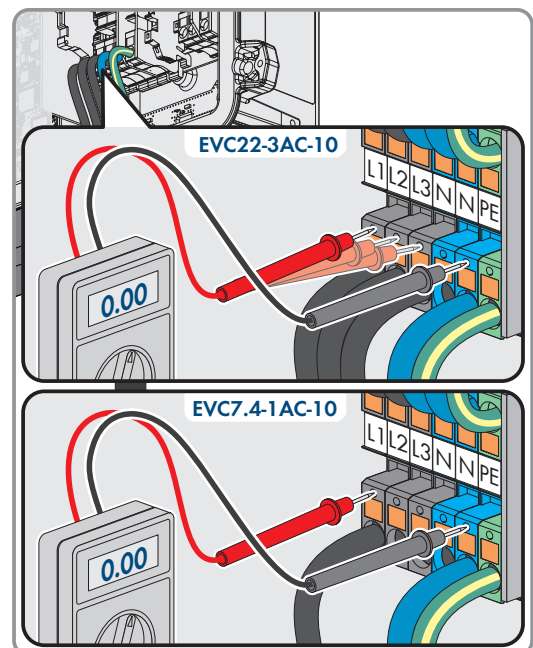
Procedure:

1. Disconnect the circuit breaker and secure it against reconnection.
2. Remove charging cable from vehicle.
3. Loosen all 4 screws of the enclosure lid (TX25) and remove it.

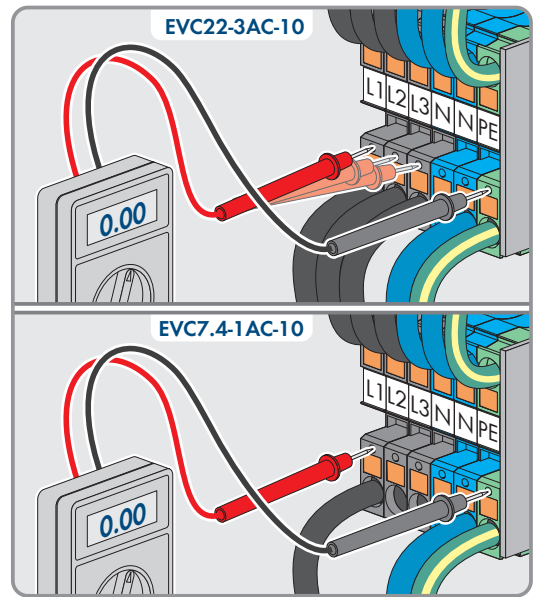


4. For EVC22-3AC-10, check that there is no voltage between L1 and N, L2 and N and L3 and N at the terminal block for connecting the utility grid. Use a suitable measuring device for this purpose.

For EVC7.4-1AC-10, check that there is no voltage between L1 and N at the terminal block for connecting the utility grid. Use a suitable measuring device for this purpose.



5. For EVC22-3AC-10, check that there is no voltage between L1 and grounding conductor, L2 and grounding conductor and L3 and grounding conductor at the terminal block for connecting the utility grid. Use a suitable measuring device for this purpose. For EVC7.4-1AC-10, check that there is no voltage between L1 and grounding conductor at the terminal block for connecting the utility grid. Use a suitable measuring device for this purpose.



10 Maintenance

QUALIFIED PERSON

DANGER

Danger to life due to electric shock when live components or cables are touched

High voltages are present in the conductive components or cables of the product. Touching live parts and cables results in death or lethal injuries due to electric shock.

- Do not touch non-insulated parts or cables.
- Disconnect the product from voltage sources and ensure it cannot be reconnected before working on the device.
- Wear suitable personal protective equipment for all work on the product.

Damage to the product

SMA Solar Technology AG recommends a daily visual inspection by the charging station user. The product and the associated components must not display any damage.

- In the case of damage to the product, contact the installer.

Correct performance of maintenance work

All maintenance work must be performed as described in this document. Deviations from procedures or failure to comply with the maintenance intervals will lead to any guarantee- or warranty claims becoming null and void.

Perform maintenance at intervals in accordance with locally applicable laws, regulations, standards, and directives.

Failure to comply with maintenance intervals can cause personal injury or property damage.

Procedure:

1. Ensure that the residual current operated circuit-breaker with integral overcurrent protection (RCBO) is working.
2. Ensure that the tripping time and operating current of the individual, active conductors are correct.
3. Ensure that the protection devices at the network input of the charging station are working.

11 Cleaning the Product

NOTICE

Damage to the product due to cleaning agents

The use of cleaning agents may cause damage to the product and its components.

- Clean the product and all its components only with a cloth moistened with clear water.

Procedure:

- Ensure that the product is free of dust, leaves and other dirt.

12 Troubleshooting

12.1 Event messages

Event number	Message, cause and corrective measures
1302	⚠ QUALIFIED PERSON Phase(s) or neutral conductor not connected One or more line conductors or the neutral conductor is not connected correctly. Corrective measures: • Check AC connection and correct if necessary.
3701	⚠ QUALIFIED PERSON Residual current A DC residual current has been detected between EV Charger and vehicle. Corrective measures: • Check the user interface of the vehicle for an error message. • Disconnect EV Charger and vehicle and reconnect to reset the error message.
6112	⚠ QUALIFIED PERSON Watchdog reset 1 task has not triggered the software watchdog. Corrective measures: • Contact Service.
6202	⚠ QUALIFIED PERSON Self-diagnosis > DI converter fault The external component DI converter reports an error. Corrective measures: • Contact Service.
6501	Self-diagnosis > The internal temperature exceeds a permissible maximum value The product has switched off because the internal temperature is above the maximum permissible value. Corrective measures: • Wait until the product has cooled down. • If this message is displayed frequently, contact the Service.
6630	⚠ QUALIFIED PERSON Overcurrent at point of interconnection, quick stop triggered An overcurrent has been detected at the connection point. This triggered a fast stop.

Event number	Message, cause and corrective measures
7001	⚠ QUALIFIED PERSON The temperature sensor for the indoor temperature is defective. The measurement is permanently outside the measuring range limits. Corrective measures: • Contact Service.
7312	Update completed
7320	The device was successfully updated The firmware update was completed successfully.
7321	⚠ QUALIFIED PERSON Error when transferring the Firmware update Version number ## Procedure aborted. The firmware update was not successful. Corrective measures: • Retry update. • If this message is displayed again, contact the Service.
7329	Condition test successful The testing of the update conditions was successful. The firmware update package is suitable for this product.
7330	⚠ QUALIFIED PERSON Condition test failed The testing of the update conditions was not successful. The firmware update package is not suitable for this product. Corrective measures: • Retry update. • Ensure that the selected update file is suitable for this product. • If this message is displayed again, contact the Service.
7605	⚠ QUALIFIED PERSON Communication error power unit The product has detected an internal communication error. Corrective measures: • Contact Service.

Event number	Message, cause and corrective measures
7619	Communication fault with meter unit The product is not receiving any data from the external energy meter. Corrective measures: • Ensure that the energy meter is integrated into the same network as the product (see energy meter manual). • For Wi-Fi connection: Improve the Wi-Fi connection quality (e.g., via Wi-Fi repeater) or connect the product with the DHCP server (router) via Ethernet.
7637	⚠ QUALIFIED PERSON Communication to internal energy meter disturbed The product has detected a communication error of internal energy meter. Corrective measures: • Contact Service.
7702	⚠ QUALIFIED PERSON Relay defect Grid relay of the product is defective. Corrective measures: • Contact Service.
8705	Invalid spec. for [##] from [##] An invalid specification for reactive or active power has been set by the analog inputs, the digital inputs or Modbus. Corrective measures: • Check and modify reactive and active power setpoints in the user interface of the product.
9026	Fast stop An overcurrent has been detected at the connection point. This triggered a fast stop.
9801	Vehicle not compatible The vehicle is not suited for use with the EV Charger. Corrective measures: • Ensure that the vehicle is suited for use with the EV Charger. • Try action again.
9802	Vehicle signals charging error The vehicle has detected an error during the charging mode. Corrective measures: • Open and close the vehicle by radio remote control. • Remove the charging cable from the vehicle and then reconnect the charging cable to the vehicle. • Check and if necessary adjust the settings in the vehicle's user interface.

Event number	Message, cause and corrective measures
9803	Communication problems between charging station and vehicle No communication can be established between EV Charger and vehicle.
9804	Charging station switches to charging mode [##] The charging mode was changed to the displayed mode.
9805	Charging mode was interrupted by vehicle. The vehicle has interrupted the charging process. Corrective measures: • Opening and closing of the vehicle by radio remote control. • Remove the charging cable from the vehicle and then reconnect the charging cable to the vehicle. • Check and if necessary adjust the settings in the vehicle's user interface.
10002	Restart The product is performing a restart.
10005	System start A system start is carried out.
10100	Parameter [##] set successfully. [##] to [##] The displayed parameter was successfully changed.
10101	⚠ QUALIFIED PERSON Setting of parameter [##] failed. [##] to [##] The displayed parameter was not changed. Corrective measures: • Make sure thresholds of the parameters are complied with. • Change the parameter again.
10107	Update failed The update was not carried out successfully. Corrective measures: • Retry update. • If this message is displayed again, contact the Service.
10109	Time adjusted / new time A new time was captured.
10111	Update to version ## successful The firmware update was completed successfully.
10114	The device has been reset to the factory setting. The configuration of the product has been reset to the default settings.
10207	New device [##] registered The displayed product was included in the system of the communication product.

Event number	Message, cause and corrective measures
10222	Parameter change for parameter # was initiated by user # via EVC##-#AC-10 from value # to #. Parameter change was initiated.
10270	Communication fault with Sunny Home Manager No communication connection to the Sunny Home Manager can be established. Corrective measures: • Check network connections.
10283	⚠ QUALIFIED PERSON WiFi module faulty The Wi-Fi module integrated in the product is defective. Corrective measures: • Contact Service.
10284	No WiFi connection possible The product does not currently have a Wi-Fi connection to the selected network. Corrective measures: • Ensure that the SSID, the Wi-Fi password and the encryption method have been entered correctly. The encryption method is specified by your Wi-Fi router or Wi-Fi access point and can be changed there. • Ensure that the Wi-Fi router or Wi-Fi access point is in range and is signaling correct operation. • If this message is displayed often, improve the Wi-Fi connection by using a Wi-Fi repeater.
10285	WiFi connection established
10286	Wi-Fi connection lost The product has lost Wi-Fi connection to the selected network. Corrective measures: • Ensure that the Wi-Fi router or Wi-Fi access point is still active. • Ensure that the Wi-Fi router or Wi-Fi access point is in range and is signaling correct operation. • If this message is displayed often, improve the Wi-Fi connection by using a Wi-Fi repeater.
10294	Access point activated The access point is active. A Wi-Fi connection can be established.
10295	Access point is deactivated The access point is not active. No Wi-Fi connection could be established.
10297	Device [##] was deleted by [##] The displayed product has been deleted by a user from the system of the communication product.

Event number	Message, cause and corrective measures
10321	Communication with device currently not possible. Device may be switched off.
10507	New active power limitation The product has received a new specification for active power limitation.
10603	Invalid configuration for the mains consumption counter
10612	The administrator account has been reset
27201	Search for update completed successfully
27204	Download of an update started
27205	Update download successful
27206	Download of update not compl. successfully The download of an update has failed. Corrective measures: • Try downloading the update again. • For Wi-Fi connection: Improve the Wi-Fi connection quality (e.g., via Wi-Fi repeater) or establish connection with the product via Ethernet. • If this message is displayed again, contact the Service.
27208	Transfer of the Firmware update Version number [##] for device type [##]. The transfer can take some time.
27313	Update started

13 Decommissioning the Product

To decommission the product completely upon completion of its service life, proceed as described in this Section.

⚠ CAUTION

Risk of injury due to weight of product

Injuries may result if the product is lifted incorrectly or dropped while being transported or mounted.

- Wear suitable personal protective equipment for all work on the product.

Procedure:

1.

⚠ DANGER

Danger to life due to high voltages

- Disconnect the product from voltage sources (see Section 9, page 50).

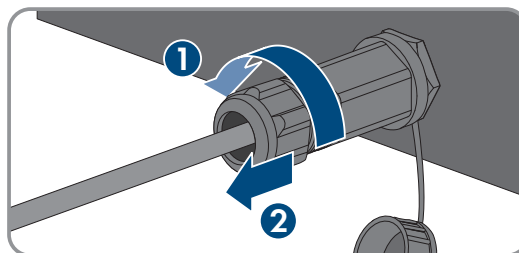
2.

⚠ CAUTION

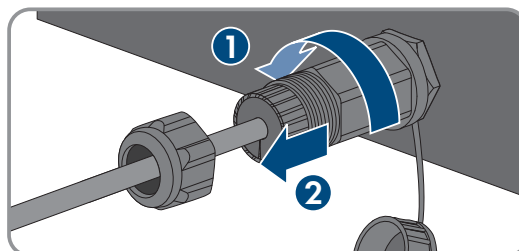
Risk of burns due to hot enclosure parts

- Wait 30 minutes for the enclosure to cool down.

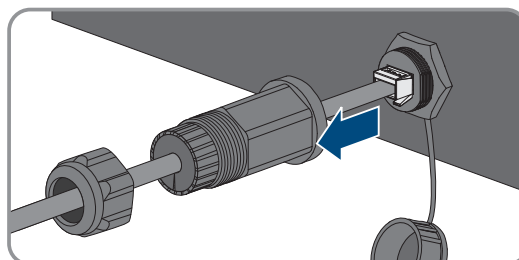
3. Unscrew the swivel nut from the threaded sleeve for the network cable.



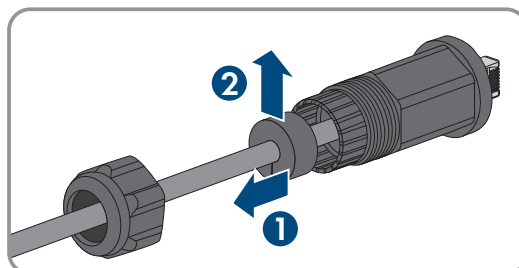
4. Remove the threaded sleeve from the thread of the network port on the product.



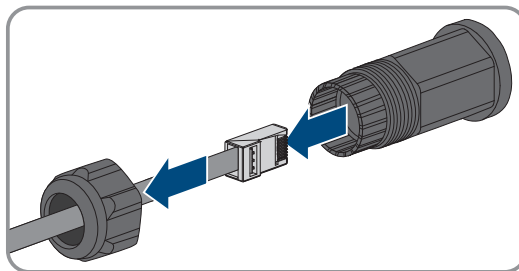
5. Release the network cable plug and pull it out of the jack on the product.



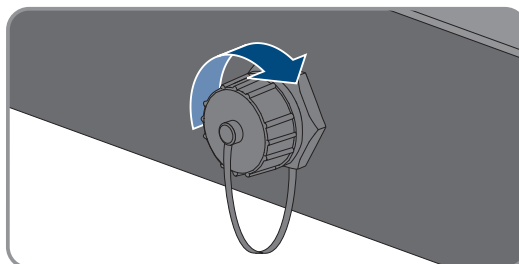
6. Take the cable support sleeve out of the threaded sleeve and remove the cable support sleeve from the network cable.



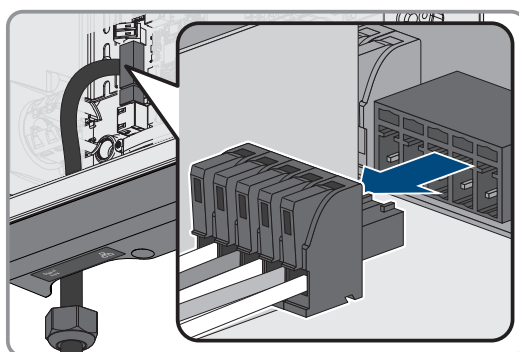
7. Lead the network cable out of the threaded sleeve and the swivel nut.



8. Screw the protective cap onto the network port.



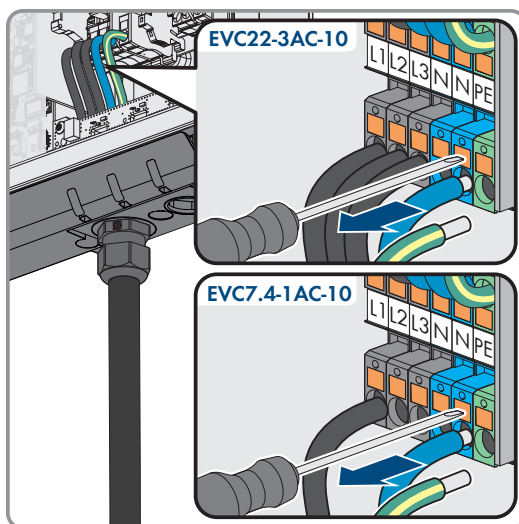
9. Remove the terminal blocks for connecting the signal source to the digital input from the port for connecting a digital signal source.



10. Remove the conductors from the terminal blocks.

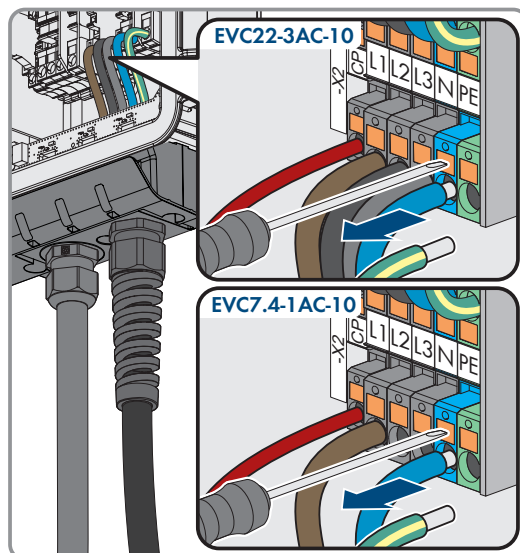
11. Lead the connection cable out of the product. If necessary, loosen the cable gland.

12. For EVC22-3AC-10, remove conductors L1, L2, L3, N and grounding conductor from the terminal block for connecting the utility grid. For EVC7.4-1AC-10, remove conductors L1, N and grounding conductor from the terminal block for connecting the utility grid. Stick a flat-blade screwdriver (blade width: 3 mm) as far as it can go into the rectangular opening via the terminal and remove the conductors from the terminals.

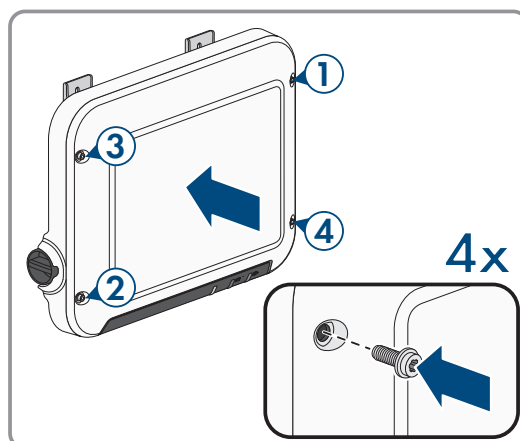


13. Lead the AC cable out of the product through the cable gland. If necessary, loosen the swivel nut of the cable gland.

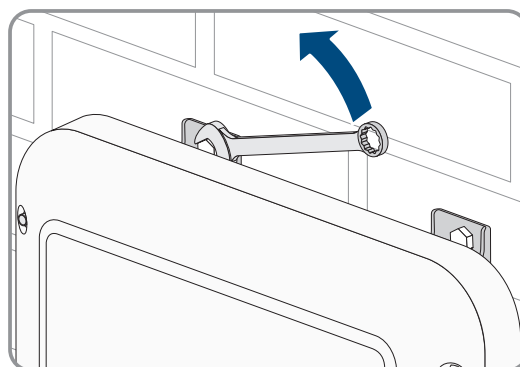
14. With EVC22-3AC-10, remove the conductors L1, L2, L3, N, grounding conductor and CP cable from the terminal block for connecting of the charging cable. With EVC7.4-1AC-10, remove the conductors L1, N, grounding conductor and CP cable from the terminal block for connecting of the charging cable. Stick a flat-blade screwdriver (blade width: 3 mm) as far as it can go into the rectangular opening via the terminal and remove the conductors from the terminals.



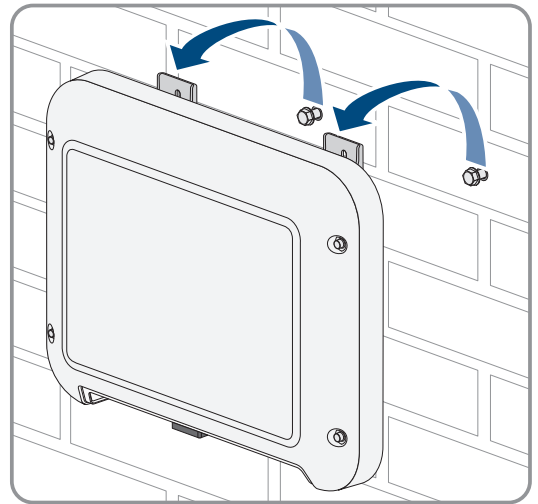
15. Lead the charging cable through the bending protection spiral and the cable gland out of the product. If necessary, loosen the bending protection spiral.
16. Replace the enclosure lid and tighten the screws in the sequence shown (TX25, torque: $6 \text{ Nm} \pm 0.3 \text{ Nm}$). Finally, retighten the first screw.



17. Loosen the hexagon head screw with which the mounting bracket is attached to the support surface.
18. Slightly loosen the 2 screws for fixing the metal brackets at the top of the product.



19. Remove the product with the metal brackets from the screws.



20. If the product is to be stored or shipped, pack the product. Use the original packaging or packaging that is suitable for the weight and size of the product.
21. If the product is to be disposed of, dispose of the product in accordance with the locally applicable disposal regulations for electronic waste.

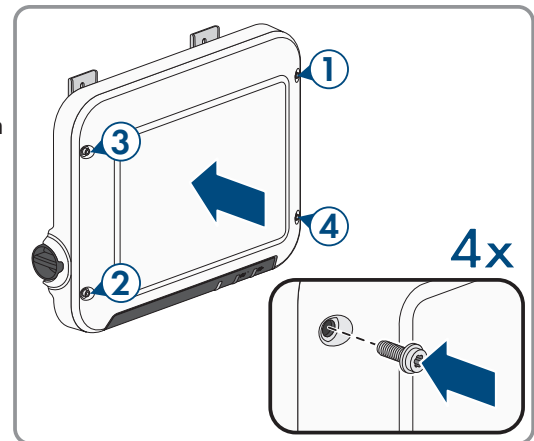
14 Procedure for Receiving a Replacement Device

⚠ QUALIFIED PERSON

Under fault conditions, the product may need to be replaced. If this is the case, you will receive a replacement device from SMA Solar Technology AG. If you received a replacement device, replace the defective product with the replacement device as described below. The replacement device can be equipped with a transport lid. The transport lid must be exchanged for the enclosure lid of the defective product. The connection cap and charging cable are not replaced. Use the connector cap and charging cable of the defective product.

Procedure:

1. Decommission the defective product (see Section 13, page 60).
2. Mount the replacement device and make the electrical connections as described in this document.
3. If the enclosure lid of the replacement device is a transport lid (see information on the enclosure lid), replace the transport lid of the replacement device with the enclosure lid of the defective product. Tighten the screws of the enclosure lid in the order shown (TX25, torque: $6 \text{ Nm} \pm 0.3 \text{ Nm}$). Then tighten the first screw again.



4. Commission the replacement device (see Section 7.2, page 38).
5. Establish a connection to the user interface (see Section 8.1, page 43).
6. Configure the product using the commission assistant (see Section 7.4, page 41).
7. If the defective product had been registered by a communication product, replace it with the new product in the communication product (see operating manual of communication product).
8. Pack the defective product in the packaging of the replacement device and arrange with SMA Solar Technology AG for it to be picked up.

15 Disposal

The product must be disposed of in accordance with the locally applicable disposal regulations for waste electrical and electronic equipment.



16 Technical Data

Inputs and outputs (AC)

	EVC7.4-1AC-10	EVC22-3AC-10
Charging capacity, freely adjustable (Mode 3)	1300 W to 7400 W	1300 W to 22000 W
Nominal voltage	230 V	400 V
Rated frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Nominal current, single-phase	32 A	32 A
Minimum input voltage	50 V	50 V
Conductor cross-section, rigid or flexible	3 x 6 mm ²	5 x 6 mm ²
Conductor cross-section, rigid	3 x 10 mm ²	5 x 10 mm ²
Vehicle connection (plug)	Type 2	Type 2
Charging cable length	5 m / 7.5 m / 10 m	5 m / 7.5 m / 10 m

Protective devices

Integrated direct current failure monitoring 6 mA	Available
Power outage protection	Available

General Data

Width x height x depth	460 mm x 357 mm x 122 mm
Weight	8.0 kg
Length x width x height of the packaging	597 mm x 399 mm x 238 mm
Maximum weight including packaging	15 kg
Operating temperature range	-25°C to +40°C
Operating temperature range with integrated derating function	-25°C to +60°C
Storage temperature range	-25°C to +70°C
Max. permissible value for relative humidity (condensing)	100 %
Maximum operating altitude above mean sea level (MSL)	2000 m
Standby self-consumption	< 6.5 W
Maximum data volume per charging station with Speedwire	550 MB/month
Radio technology	WLAN 802.11 b/g/n

Radio spectrum	2.4 GHz
Maximum transmission power	100 mW
Wi-Fi range in free-field conditions	100 m
Quantity maximum detectable Wi-Fi networks	32
Cooling method	Convection
Degree of protection in accordance with IEC 60529	IP65
Impact resistance	IK08
Protection class in accordance with IEC 61140	I
Overvoltage category	III
Approved grid configurations	TN, TT, IT

Equipment

AC terminal	Spring-cage terminal
Speedwire interface	As standard
Wi-Fi	As standard

Torques

Screws wall mounting	Hand-tight
Screws of mounting bracket	6 Nm $\pm$ 0.3 Nm
Screws of terminal cover	3.5 Nm
Enclosure lid screws	6 Nm $\pm$ 0.3 Nm

Data Storage Capacity

1-minute values	7 days
Five-minute values	7 days
15-minute values	30 days
60-minute values	3 years
Event messages	1024 events

17 Accessories

You will find the accessories for your product in the following overview. If required, these can be ordered from SMA Solar Technology AG or your distributor.

Designation	Short designation	SMA order number
Charging cable for EVC7.4-1AC-10, length: 5 m	Single-phase charging cable of 5 m length for the SMA EV Charger of type EVC7.4-1AC-10	EVC-CBL-1-5-10
Charging cable for EVC7.4-1AC-10, length: 7.5 m	Single-phase charging cable of 7.5 m length for the SMA EV Charger of type EVC7.4-1AC-10	EVC-CBL-1-7.5-10
Charging cable for EVC7.4-1AC-10, length: 10 m	Single-phase charging cable of 10 m length for the SMA EV Charger of type EVC7.4-1AC-10	EVC-CBL-1-10-10
Charging cable for EVC22-3AC-10, length: 5 m	Three-phase charging cable of 5 m length for the SMA EV Charger of type EVC22-3AC-10	EVC-CBL-3-5-10
Charging cable for EVC22-3AC-10, length: 7.5 m	Three-phase charging cable of 7.5 m length for the SMA EV Charger of type EVC22-3AC-10	EVC-CBL-3-7.5-10
Charging cable for EVC22-3AC-10, length: 10 m	Three-phase charging cable of 10 m length for the SMA EV Charger of type EVC22-3AC-10	EVC-CBL-3-10-10

18 Spare Parts

You will find the accessories for your product in the following overview. If required, these can be ordered from SMA Solar Technology AG or your distributor.

Designation	Short designation	SMA order number
Charging cable for EVC7.4-1AC-10, length: 5 m	Single-phase charging cable of 5 m length as spare part for the SMA EV Charger of type EVC7.4-1AC-10	EVC-CBL-1-5-10-SP
Charging cable for EVC7.4-1AC-10, length: 7.5 m	Single-phase charging cable of 7.5 m length as spare part for the SMA EV Charger of type EVC7.4-1AC-10	EVC-CBL-1-7.5-10-SP
Charging cable for EVC7.4-1AC-10, length: 10 m	Single-phase charging cable of 10 m length as spare part for the SMA EV Charger of type EVC7.4-1AC-10	EVC-CBL-1-10-10-SP
Charging cable for EVC22-3AC-10, length: 5 m	Three-phase charging cable of 5 m length as spare part for the SMA EV Charger of type EVC22-3AC-10	EVC-CBL-3-5-10-SP
Charging cable for EVC7.4-1AC-10, length: 7.5 m	Three-phase charging cable of 7.5 m length as spare part for the SMA EV Charger of type EVC22-3AC-10	EVC-CBL-3-7.5-10-SP
Charging cable for EVC7.4-1AC-10, length: 10 m	Three-phase charging cable of 10 m length as spare part for the SMA EV Charger of type EVC22-3AC-10	EVC-CBL-3-10-10-SP

19 Contact

If you have technical problems with our products, please contact the SMA Service Line. The following data is required in order to provide you with the necessary assistance:

- Device type
- Serial number
- Firmware version
- Event message
- Installation site and mounting height
- Optional equipment, e.g. communication products
- Use the name of the system in Sunny Portal (if available)
- Access data for Sunny Portal (if available)
- Special country-specific settings (if available)
- Information on the ripple control receiver
- Detailed description of the problem

You can find your country's contact information at:



<https://go.sma.de/service>

20 EU Declaration of Conformity

within the scope of the EU directives



- Radio Equipment Directive 2014/53/EU (22.5.2014 L 153/62) (RED)
- Restriction of the use of certain hazardous substances 2011/65/EU (L 174/88, June 8, 2011) and 2015/863/EU (L 137/10, March 31, 2015) (RoHS)

SMA Solar Technology AG confirms herewith that the products described in this document are in compliance with the fundamental requirements and other relevant provisions of the aforementioned directives. More information on the availability of the entire declaration of conformity can be found at <https://www.sma.de/en/ce-ukca>.

Radio technology	WLAN 802.11 b/g/n
Radio spectrum	2.4 GHz
Maximum transmission power	100 mW

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