solaredge

Configuration manual

SolarEdge EV Charger UK

Version 1.02

Translation of the original instructions



Document: V 1.02

Pages: 34

© SolarEdge Technologies | Version published: 08.2024

Customer Support SolarEdge Technologies

https://www.solaredge.com/service/support

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1 Introduction

This document refers to the following devices:

SolarEdge EV Charger with software version 1.18

The device variant can be determined by the product designation on the type plate. The software version can be read out via the web interface. For more information, see the "Operating instructions".

The pictured devices used in this manual are visual examples. The figures and explanations contained in this manual refer to a typical device design. The devices used by you may differ in their appearance.

1.1 Representation of safety instructions

At various points in this manual, you will see notes and precautionary warnings regarding possible hazards. The symbols used have the following meaning:



DANGER!

Indicates an imminently hazardous situation, which will result in death or serious bodily injury if the corresponding precautions are not taken.



WARNING!

Indicates a potentially hazardous situation, which can result in death or serious bodily injury if the corresponding precautions are not taken.



CAUTION!

Means that if the corresponding safety measures are not taken, a potentially hazardous situation can occur that may result in slight bodily injury.

Caution

Means that damage to property can occur if the corresponding safety measures are not taken.



ESD

This symbol reminds you of the possible consequences of touching electrostatically sensitive components.



Note

Identifies practical tips and useful information. No information that warns about potentially dangerous or harmful functions is contained.



1.2 Purpose of the document

This document describes the configuration of the advanced features of SolarEdge EV Charger after it has been installed. This includes, among other things, the description of the settings in the web interface.

This document is an extension to the supplied manuals of SolarEdge EV Charger.

You must comply with all instructions and safety instructions in the supplied manuals!

1.3 Requirements

This document contains information for persons with the following requirements:

Target group	Required knowledge and abilities
	Person who, due to his or her special training, expertise and experience as well as knowledge of current standards, is able to assess the work performed and the possible hazards.
	Knowledge of:
	current valid safety information,
Electrician	the mode of operation of the charging station,
Licetifeian	the displays and operating elements of the charging station,
	basics of network technology,
	basics of IT,
	diagnostic options,
	systematic fault analysis and rectification,
	the setting options on the charging station.

1.4 Warranty

Only general maintenance work that is expressly permitted by SolarEdge Technologies may be performed. Any other tampering to the device will result in a loss of the warranty claim.



WARNING!

Risk of electric shock and fire hazard!

After the front part has been opened, product safety can no longer be guaranteed.

Only the covers described in the instructions may be opened. If one of the covers is sealed by a lead seal, it is not permitted to be opened by unauthorized persons. If the lead seal is broken, the device loses its specific suitability for use and may no longer be put into operation due to the resulting incorrect identifier.





Fig. 1-1: Screws on the front part

The front part 1 must not be opened. Opening the front part (4 Torx screws) will break the manufacturer's seal and void the warranty claim. In order to make a warranty claim, the customer must provide evidence that the defect in material or workmanship already existed at the time of delivery. If the manufacturer's seal is broken, this proof can no longer be provided, resulting in expiration of the warranty claim.

A device with a broken manufacturer's seal or removed lead seal may no longer be put into operation. The necessary steps must be taken for having the charging station replaced or repaired by a specialist dealer or service partner.

1.5 Notes on this document

The manual is part of the product. It is to be retained over the entire life cycle of the product and should be forwarded to any subsequent owners or users of the product.

The instructions contained in this manual must be followed precisely. Failure to do so can result in the creation of potential sources of danger or the disabling of safety devices. Apart from the safety instructions given in this manual, the safety precautions and accident prevention measures appropriate to the situation in question must also be observed.

Contents of the document

Configuration of the advanced features of the charging station

Not contained in this document

- Commissioning and uninstallation of the charging station
- Operating behavior of the charging station
- Operating the charging station



1.6 Further documentation

Manuals and additional information are available on our website: www.solaredge.com/resource-library



2 System overview

The SolarEdge EV Charger communicates with the SolarEdge Technologies OCPP backend. The charging station is equipped with different network interfaces for these functions.

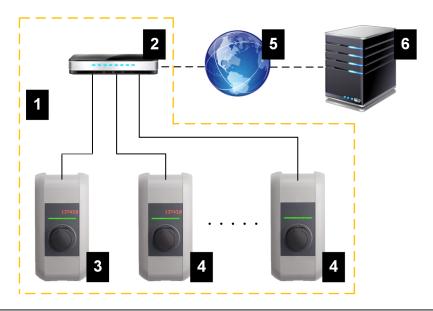


Fig. 2-2: Example network setup

1 Local charging network	2 Router/Switch
3 Master charging station (x-series)	4 Client charging station (c-series)
5 Higher-level network/Internet	6 OCPP backend

The following chapters describe which network interfaces the SolarEdge EV Charger (master charging station) provides and how to set up a master/client network.

2.1 Network interfaces

The SolarEdge EV Charger provides the following network interfaces (e.g. for connection to an OCPP backend):

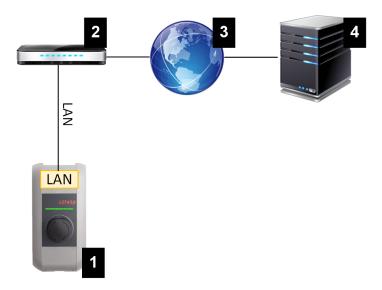
- LAN
- WLAN (optional)
- WLAN access point (optional)

Client charging stations can only be connected via LAN to the SolarEdge EV Charger (master charging station).



2.1.1 LAN

The SolarEdge EV Charger can be connected to a router via the integrated LAN interface. The router establishes a connection to an OCPP backend via internet.



1 SolarEdge EV Charger	2 Router
3 Internet	4 OCPP backend

Connection: Ethernet1 connection (LSA+®)

Via the LAN interface, the SolarEdge EV Charger can also be connected to other charging stations, allowing to implement a charging network.



Note

The Ethernet1 connector X4 (LSA+®) and the Ethernet2 connector X3 (RJ45) are connected in parallel on the PCB and cannot be used at the same time. The unused connection must be disconnected if necessary (e.g. during servicing).

The Ethernet1 connection X4 is designed as a terminal block in LSA+® technology. It is recommended to implement hard-wired communication (e.g. for SmartHome or a charging network) at the LSA+® connection.



2.1.2 WLAN (optional)

The SolarEdge EV Charger can be connected to a router via the integrated WLAN interface. If the router is connected to the Internet, a connection to an OCPP backend can be made.





1 SolarEdge EV Charger	2 Router
3 Internet	4 OCPP backend

The technical data of the WLAN module can be found in the "Installation manual".



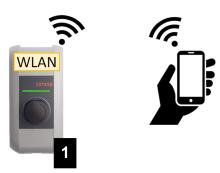
Note

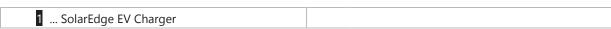
Only a charging station that is operated as a single charging station can be connected to the router via WLAN. A charging station that is part of a charging network (master/client network) must always be connected to the router via LAN.



2.1.3 WLAN Access Point (optional)

The SolarEdge EV Charger can be connected to a mobile device via the integrated WLAN access point. With a mobile device, the web interface can be easily accessed and the configuration of the charging station can be performed.





The access data and the possible IP addresses of the WLAN access point are listed on the configuration label. To avoid a conflict in the network, the charging station can switch between three possible IP addresses. The configuration label is in a pouch which is enclosed with the mounting material.

The following steps are necessary to perform the configuration via a mobile device:

- 1) Connect a mobile device to the WLAN access point.
- 2) Access the IP address of the WLAN access point in a web browser on the mobile device.
- 3) Perform configuration via the web interface.

2.2 Displays and signals

The display on the front of the charging station provides information about which communication connection is established.

Display	Description
blue blue blue	Communication is possible throughout the network. The master charging station and the OCPP backend are reachable.
blue blue blue -	Communication between master and client charging stations is possible. The OCPP backend is not reachable or missing.
- blue blue -	Communication between master and client charging stations is not possible. The OCPP backend is not reachable.



3 Configuration

This chapter describes the configuration for the correct operation of the charging stations. The following steps are necessary for this:

- Set the DIP switch on the charging station
- Configuration (via the web interface or via USB stick)

Depending on the network configuration, activation of the DHCP server on the master charging station may be necessary.

3.1 Connection panel

In the connection panel of the charging station are important interfaces and controls for the configuration of the charging station. To access, the housing cover and the connection panel cover must be removed. The description of removing the covers and the connection panel can be found in the "Installation Manual".

3.2 DIP switch settings

This DIP switch setting must be made for each master and client charging station to enable charging station communication.

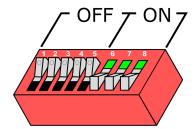
Caution

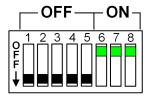
Possible damage to the DIP switches!

The DIP switches are rocker switches and not slider switches. The DIP switches must be pressed and must not be pushed under any circumstances.

ON/OFF position of the rocker switches

The illustration shows the position of the rocker switches for the setting ON and OFF





The DIP switches are located under the connection panel cover. The following figure shows only the affected DIP switches, others are not shown. The following setting must be made on the DIP switch DSW2:



Activation of communication - DSW2.5

Function	Figure
Activation of communication This DIP switch setting must be made for each master and client charging station to enable charging station communication.	1 2 3 4 5 6 7 8 FF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



Note

Changes to the DIP switch settings only become effective after a restart of the charging station!

To restart, press the "Service button" until the first beep (approx. 1 second) or switch off the charging station for a short time via the line circuit breaker.



4 Web interface

The necessary settings (main menu "Configuration") for the communication of the charging station are configured in the web interface. The configuration for the entire charging network is done via the SolarEdge EV Charger (Master).

The actual size of the web interface may differ depending on the device variant.

A network connection is required to access the web interface. The network connection can be made via LAN, WLAN, WLAN access point or mobile communications (e.g. with PC or mobile terminal).

The master web interface can be accessed by entering the IP address of the master in a web browser.

The IP address of the master is determined differently depending on the connection type.

WLAN access point	The default IP address of the WLAN access point is set to 192.168.2.1. This IP address can be found on the configuration label If the charging station detects that it receives an IP address in the range 192.168.2.x from the DHCP server of a LAN router via a LAN (wired Ethernet), then the integrated WLAN access point of the charging station automatically changes its IP address to one of the following three IP addresses: 192.168.178.1 192.168.179.1 192.168.187.1
Router with integrated DHCP server	The master automatically receives an IP address via the router's DHCP server. The IP address is shown on the display of the charging station when it is (re)started. No DCHP server must be activated on the master. In the case of a client charging station, the IP address is displayed on the display when the charging station is (re)started.
SolarEdge EV Charger Master with local DHCP server	BThe local DHCP server has been activated on the master, which automatically gives the master the following IP address: 192.168.42.1 The DHCP server is deactivated in the delivery state and can be activated via the configuration in the web interface.
Fixed IP address	Setting a fixed IP address is possible via the WebUI, RestAPI and USB. If the local DHCP server and the DHCP client are disabled, a fixed IP address, netmask, gateway and DNS server can be specified manually.

A login is required to use the web interface.

The login data for the first login in the web interface is printed on the configuration label. The configuration label is in a pouch affixed to the installation materials. For security reasons, change the password after the initial login. In doing so, observe the password guidelines, refer to "4.2 User menu".



4.1 Main menu

The main menu is divided into the following areas:

- Status
- Charging sessions
- RFID cards
- Charging network
- System
- Configuration

4.1.1 Status

The page is divided into the following areas:

Overview

Here, basic information about all charging stations in the charging network is displayed (such as serial number, IP address, operating state, etc.).

When the respective IP address is clicked, a new browser window displays information about the charging station, such as total energy, energy of a charging session, power, voltage, current, status and event log. The scope of the displayed information is variant-dependent.

An "Actions" button is located next to each listed charging station. When the button is clicked, the following functions are available:

Start charging	Authorizes a charging session without an RFID card having to be held before the sensor. This function is only available with the authorization function enabled.
Stop charging	Ends the active charging session.
Restart	Restarts the charging station.
Unlock	Unlocks the charging plug on the charging station (not for the vehicle). For an active charging session, the charging session is ended first and then the charging plug is unlocked.

Network connection

Here, information about the network interfaces (LAN, mobile communications, WLAN and WLAN Access Point) of the master is displayed.

Backend

Information about the OCPP backend (such as connection status and address) is displayed here.



4.1.2 Charging sessions

This page displays details about the charging sessions of the last 90 days. The "Export" button lets you export the charging sessions of the selected period as *.csv file.

A currently active charging session is displayed with the "PWMCharging" status. Various filter functions let you search for certain charging sessions. For example, you can filter for charging sessions that have a certain start date or for which a certain RFID card was used.

4.1.3 RFID cards

This page provides an overview of all stored RFID cards including their authorizations. RFID cards can be taught-in, edited and deleted. RFID cards can also be exported and imported as *.csv file.

4.1.4 Charging network

The configuration of the charging network is carried out in this area.

The area offers the following options:

- Charging network settings
- Charging preferences
- Chargepoint parameters

Charging preferences

A charging profile can be defined for the charging station here.

The charging station charges according to the set profile depending on the current assignment of the charging station and the power available in the entire charging network. If no current limit is set, the maximum available current is used for charging.

Randomized delay

The random load adjustment delay can be activated and deactivated here. This delays the adjustment of the charging power according to the set charging profile by a random value in order to avoid peaks in the charging network.

Charging network settings

The current limits for the charging network can be set.

With 1- or 2-phase charging vehicles, asymmetrical loading of the 3 phases may occur. For such vehicles, the maximum charging current can be set in this area. The charging station then detects whether the vehicle is a 1-, 2- or 3-phase charging vehicle and, if necessary, reduces the charging current to the set value. If "0" is entered, this function is deactivated.

It can also be set whether charging should continue after a power failure. This setting is disabled by default.



Chargepoint parameters

Here it is determined whether the charging station is operated as a single charging station or as a master charging station in a charging network.

The number of clients must be entered for a charging network. In addition, all attached client charging stations must be entered with their respective serial numbers. Otherwise, the client charging station will not be recognized by the master charging station in the network. The serial number is printed on the rating plate of the client charging station.

Both the master charging station and all attached client charging stations can be enabled ("available") or disabled ("out of service") individually. If the charging station is disabled during a charging process, the charging process will be stopped. When the charging station is disabled, the LED bar slowly flashes orange and the display shows that the charging station is out of service.

Permanent locking of the charging cable can be activated here. The connection type (1-phase or 3-phase) of the charging station has to be selected. For a 1-phase connection, the power cable wire that is used can also be selected. For a charging network, the connection type of the client charging stations can also be selected.

If a client charging station loses the connection to the master, or if an error occurs at the master, a specification can be made for the maximum charging current at which charging is to be continued. If "0" is entered, the charging process is terminated in the event of an error and the charging station is put into "out of service" mode.

4.1.5 System

The area offers the following options:

- Software update
- Mobile communications info
- API access settings
- Logging
- DSW settings
- Factory data reset
- Signed measurement data export
- Signed log data export
- WebUI certificates
- Restart system

Software update

The currently installed software versions are displayed. A software update can also be performed here.

Mobile communications information

Information on the mobile network connection is displayed and it is possible to test whether there is a connection to the selected mobile network.



API Access Settings

Here, you can activate the API required for communication with the APP.

Logging

The event log can be downloaded here.

DSW settings

Here, you can view the configured DIP switch settings for each charging station in the charging network.

Factory data reset

The "Reset" button resets the configuration to the factory settings and all stored data (charging sessions, taught-in RFID cards, web interface password, etc.) is deleted.

Signed measurement data export

Here, you can export the signed measurement data records that can be used for billing charging sessions. This function is only available for device variants with a specific suitability.

Signed log data export

Here, you can export the signed log data records that contain an event log. This function is only available for device variants with a specific suitability.

WebUI certificates

For an encrypted connection, certificates can be imported in *.pfx format. A connection to the web interface can be encrypted. The following certificates are available:

WebUI certificates

Certificate	Purpose
Https WebUI	Encrypted connection to the web interface

Restart system

The master can be restarted with this button.



4.1.6 Configuration

The configuration of the charging station is carried out in this area. The area offers the following options:

- Device
- Network connection
- Routing
- Proxy
- OCPP
- OCPP certificates
- Display text



Note

- The DIP switch settings are independent of the web interface configuration and cannot be overwritten by software.
- The settings made are only applied after the "Apply" button has been pressed.

Device

The basic settings for the charging station are configured here:

- Managing the authorisation function
- Synchronizing the time of the charging station with the time of the browser (the charging station restarts after a time synchronization)
- Activating and deactivating the USB stick functions
- Deleting the event log (log file)
- Rated voltage to which the charging station is connected
- Behavior of the charging station after a power failure

Network connection

Here the network communication (WLAN Access Point, SIM, APN connection data) can be selected and configured.

Routing

Here, you can configure the required routing settings.

Proxy

All the configurations needed to use a proxy server can be specified here.



OCPP

All the necessary configurations for connecting to an OCPP backend can be found in this part. The displayed configuration options vary depending on the selected transmission type (SOAP oder JSON).

OCPP certificates

For an encrypted connection, certificates can be imported in *.pfx format. The connection to the OCPP backend and charging station can be encrypted. The following certificates are available:

OCPP certificates

Certificate	Purpose
Charge point certificate	Encrypted connection to the OCPP server
Central system root certificate	Certificate for logging in to the charging station at the OCPP backend (OCPP 1.6 JSON Security)
OCPP server certificate	Encrypted connection to the charging station
Manufacturer root certificate	Check of the signature for firmware updates (OCPP 1.6 JSON Security)

Display text

Here, you can make settings for the text that is shown on the display of the charging station describing various processes of the charging station. The language of the text can be changed, the display duration can be configured and the display text itself can be changed.

The text display is limited to 20 characters, and no umlauts or special characters can be used.

The abbreviations "Wh" and "kWh" must not be used in the display texts as they may be misleading to the user. These abbreviations are reserved for indicating transmitted energy. If either "Wh" or "kWh" are entered as display text anyway, this text is ignored and not shown on the display.



4.2 User menu

The user menu contains important information and settings for the user. It is divided into the following areas:

- Help: help for using the web interface
- Licenses: display of commonly used licenses
- User settings: settings and changes to the currently logged in user
- Logout: logout of the currently logged in user

4.2.1 **User settings**

In this area, changes to the following user settings can be made:

Username and password

The web interface username and the corresponding password can be changed here. The following rules apply for assigning the password:

- At least 10 characters long
- Maximum of 2 successive identical characters
- At least 3 of the following criteria are fulfilled:
 - 1 uppercase letter (A-Z)
 - 1 lowercase letter (a-z)
 - 1 number (0-9)
 - 1 special character

Language of the user interface

The language of the user interface can be changed here.

Time format of the user interface

The time format and the time zone of the user interface can be set here.

Remote service interface

The remote access to the charging station can be enabled here. This enables a service technician to access the charging station via an encrypted connection. These settings can also be configured on the OCPP backend.

Log level

For error diagnosis, it can be necessary to record the processes of the charging station in detail. To do so, DEBUG mode can be enabled here. To ensure that the recorded data quantity is not too large, the duration for the detailed recording must also be specified.



Recovery key

If you forget the web interface password, you can reset it using the displayed recovery key. The recovery key can also be found on the configuration label.



Note

It is essential to keep the recovery key in a secure place for the entire life of the product!



5 Functions

The following chapters describe special functions of the charging station.

5.1 RFID authorization

Certain device variants are equipped with an RFID reader, which enables the authorization of a charging process with RFID cards in accordance with ISO 14443 and ISO 15693. The RFID authorization only allows a charging session to be started if an identification takes place by means of an RFID card. The authorization function is enabled and disabled in the web interface of the master.

In the case of a local charging network without a higher-level OCPP backend, all RFID cards must be taught in at the master. Up to 1000 RFID cards can be stored. After teaching in, the permitted RFID cards are stored at the master and are managed by it in the charging network. It is not possible to teach in RFID cards at a client charging station.

When connecting to an external OCPP backend, all RFID cards must be taught in at the OCPP backend. Any number of RFID cards can be stored. It is not possible to teach in the RFID cards directly at a charging station.

The first 1000 RFID cards are relayed from the OCPP backend to the master, where they are stored locally. This enables charging sessions to be authorized even if the connection fails temporarily. In case of a connection failure, authorization requests, depending on the authorization mode, are compared to the locally stored RFID cards.

5.1.1 Authorization modes

The authorization modes described below are available in the web interface if the authorization function has been activated.

Online authorization mode

This defines which storage location an authorization request is to be compared to.

Mode	Description
FirstLocal	The authorization request is first compared to the locally stored RFID cards stored at the charging station. If the RFID card is not stored locally and a OCPP backend is used, a comparison takes place with the RFID cards stored at the OCPP backend. If no OCPP backend is used, this setting must be used for an authorization to be active.
FirstOnline	The authorization request is always compared to the RFID cards stored on the OCPP backend. There is no comparison to the locally stored RFID cards stored at the charging station.
OnlyLocal	The authorization request is always compared to the RFID cards stored locally at the charging station. No comparison is made to the RFID cards stored at the OCPP backend.



Offline authorization mode

This defines how an authorization request is handled if the connection to the higher-level OCPP backend fails.

Mode	Description		
OfflineLocalUnknown Authorization	All RFID cards are accepted, even if they are not stored locally at the charging station. Only those RFID cards that are stored locally at the charging station and have a status other than "ACCEPTED" are rejected.		
OfflineLocalAuthorization	Only RFID cards stored locally at the charging station with the status of "ACCEPTED" are accepted.		
OfflineNoAuthorization	All RFID cards are temporarily accepted. As soon as the connection to the OCPP backend exists again, the RFID card is checked and, if an invalid RFID card is being used, the charging process is canceled.		
OfflineNoCharging	Charging is not possible in case of a connection failure.		
OfflineFreeCharging	In offline mode, authorization is deactivated.		

5.1.2 Displays and signals

During RFID authorization, the charging station can display different light patterns on the LED bar and emit acoustic signals.

LED bar

Display	Description		
Flashing green (every 3 seconds)	Authorization is done correctly.		
Flashing blue (every 3 seconds)	The charging station is waiting for authorization to enable a charging process. Authorization necessary, either with RFID card or by an external input.		
Illuminated orange (once)	The RFID card is invalid.		

Acoustic signals

Signal	Description		
Single tone	RFID card has been read.		
Rising tone sequence	RFID card has been accepted.		
Falling tone sequence	RFID card has been rejected (no authorization).		

The charging station can also display a text concerning the RFID authorization, e.g. "accepted card". This text can be customized via the web interface.



5.1.3 RFID authorization without OCPP backend connection

The following options are available for managing RFID cards:

- At the RFID reader of the charging station
- In the web interface

Managing RFID cards at the RFID reader

Both the master RFID card and all client RFID cards can be taught in directly at the RFID reader of the charging station. To teach in an RFID card, no charging session may be active and no vehicle may be plugged into the charging station.

Teaching in a master RFID card

To access the "Service button", the housing cover and the connection panel cover must be removed.

- 1) Press and hold the "Service button" in the connection panel until the second signal tone is sounded (approx. 10s).
 - The charging station will then automatically perform a restart, deleting all previously taught-in RFID cards, if necessary.
- The charging station will be available again after 30 seconds.
- After the waiting time, the first three segments of the led bar are illuminated. A master RFID card can be taught in for 30 seconds by holding it in front of the RFID reader. A successful teach-in process is confirmed by a rising tone sequence.

Teaching in a client RFID card

- 1) Hold the master RFID card in front of the RFID reader and wait for the rising tone sequence.
- Then hold the client RFID card to be programmed in front of the RFID reader within 10 seconds and wait for the signal tone.
- 3) Confirm the teach-in process by holding up the master RFID card again within 5 seconds. A successful teach-in process is confirmed by a rising tone sequence.



Managing RFID cards in the web interface

RFID cards can be managed via the configuration in the web interface. The following functions are available:

- Teaching-in, editing or deleting an RFID card
- Exporting or importing a list of stored RFID cards as *.csv file



Note

It is recommended to use a text editor for editing the *.csv file. Otherwise the date can be interpreted incorrectly upon import.

The following entries can be made during teaching-in and editing of an RFID card:

Eingabe	Beschreibung			
Name of the Card	Name of the RFID card.			
RFID Card – Serial No. (UID)	Serial number (UID) of the RFID card.			
Expiry Date	Date up to which the RFID card is to be valid.			
Master RFID Card	Set the RFID card as master RFID card. Only one card can be defined as mas RFID card.			
Status	Authorization of the RFID card. Here it is also possible to block an RFID card and thus prevent charging with the relevant RFID card.			
Charging Station – Serial No.	Serial number of the charging station where the RFID card may be authorized. All or only certain charging stations in the charging network can be enabled for the RFID card.			

5.1.4 RFID authorization with OCPP backend connection

If the charging station or a charging network is controlled by an OCPP backend, please note the following:

- Teach in RFID cards:
 - All RFID cards must be "centrally taught in" at the OCPP backend.
- "Authorization" in the web interface to "ON":
 Each authorization request is relayed to the OCPP backend.
- "Authorization" in the web interface to "OFF":
 A charging process can only be started without holding up an RFID card if the predefined token set in the configuration is recognized and accepted by the OCPP backend.



Note

For information on the functionality and the required settings of the OCPP backend, refer to the specific manual of the system used.



5.1.5 Start charging process with RFID authorization

To start a charging process with RFID authorization, proceed as follows:

- 1) Plug the vehicle into the charging station.
- 2) Hold the RFID card, which was previously taught in, in front of the RFID reader.
- 3) The rising tone sequence and the green flashing LED bar indicate that the RFID card has been accepted. The charging process can now be started.
- 4) If necessary, the charging process can be stopped prematurely by holding the same RFID card in front of the RFID reader again.



6 Maintenance

6.1 Software update

The software of the charging station is subject to the update obligation in accordance with EU directive "Sales of goods 2019/771" and "Digital content 2019/770" and their national versions.

The software of the charging station must therefore always be kept up to date, as it may contain security updates, functional enhancements and bug fixes.

For a software update ask SolarEdge Technologies.

The information and instructions for the current software package from the associated release notes must also be observed.

A software update may only be performed if no vehicle is plugged in at the charging station.



Note

The software update can take up to 30 minutes. The update process is indicated by a slow orange flashing of the LED bar.

After the software update, the charging station restarts automatically. The LED bar will flash blue or green, depending on the authorization setting.



Note

The power supply must not be interrupted during the software update. Otherwise, the software update is not terminated correctly and further normal operation of the charging station is no longer guaranteed.

Software update at charging network

A software update for a charging network must be carried out on the master charging station (EV-Charger x-series). The master charging station passes on the new firmware to the connected client charging stations (c-series) via the software update.



6.1.1 Software update via web interface



Fig. 6-3: Web interface software update

To perform a software update via the web interface, proceed as follows:

- 1) Download the current software for the charging station (* . keb file).
- 2) Log into the web interface of the charging station.
- 3) In the main menu under "System" select the item "Software Update".
- 4) Upload the current software using the "Choose a file ..." button.
- 5) Start the update process with the "Upload & Install" button.

6.1.2 Software update via USB stick

For a software update using a USB stick, this function must be activated in the configuration (web interface).

To perform a software update via a USB stick, proceed as follows:

- 1) Download the current software for the charging station (* . keb file).
- 2) Plug the USB stick into a PC.
- 3) Format the USB stick with FAT32.
- 4) Create a new directory on the USB stick with the name "UPD".
- 5) Copy the downloaded * . keb file into the "UPD" directory.
- 6) Connect the USB stick to the USB interface of the charging station. The update starts automatically.



6.1.3 Software update via OCPP backend

The software update for the entire charging network can be performed via the OCPP backend.

To perform the software update an FTP link is required. The information downloaded from our website along with the software update contains the FTP link.

For details on using the FTP link, see the OCPP backend manual.



7 **Support**

If you have technical problems concerning SolarEdge products, please contact us:

https://www.solaredge.com/service/support

Before contact, make sure to have the following information at hand:

- Model and serial number of the product in question.
- The error indicated on the product SetApp mobile application or on the monitoring platform or by the LEDs, if there is such an indication.
- System configuration information, including the type and number of modules connected and the number and length of strings.
- The communication method to the SolarEdge server, if the site is connected.
- The product's software version as it appears in the status screen.





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