Everything about: Software update on RCT Power devices

This document is intended for all users of the RCT Power App and all operators of RCT Power Inverter/ Storage DC/ Storage AC and Power Battery.

Table of contents

1. Basic Information:

Basically RCT Power devices have to be updated manually, there is no update automatism, only for the RCT Power Android/ iOS App (depending on the smartphone/ tablet settings see corresponding device manual). We recommend keeping RCT devices always up to date to simplify possible support by the installer/ manufacturer and to be able to use the latest features.

A software update on RCT devices can only be made with Android-/iOS devices (smartphone/ tablet). We recommend at least Android Version 10 and iOS Version 12 for a secure update.

2. How to perform a software update on my RCT device?:

2.1 Variant 1:

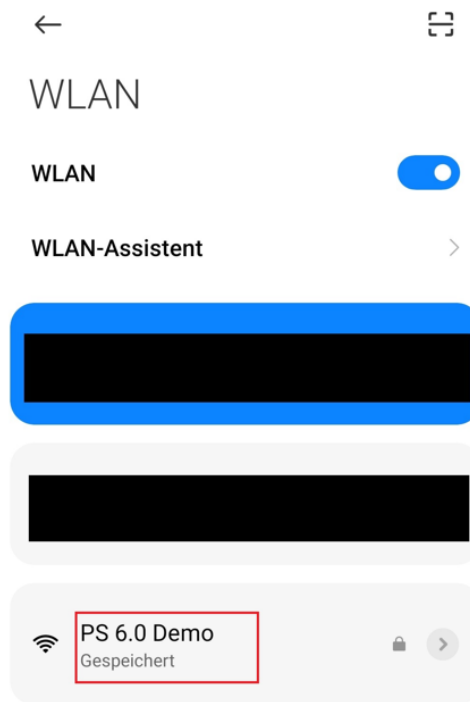My smartphone/ tablet is directly connected with the inverter WiFi.

➔ By default, the networks are named either:

PI <power class> <4-character string>
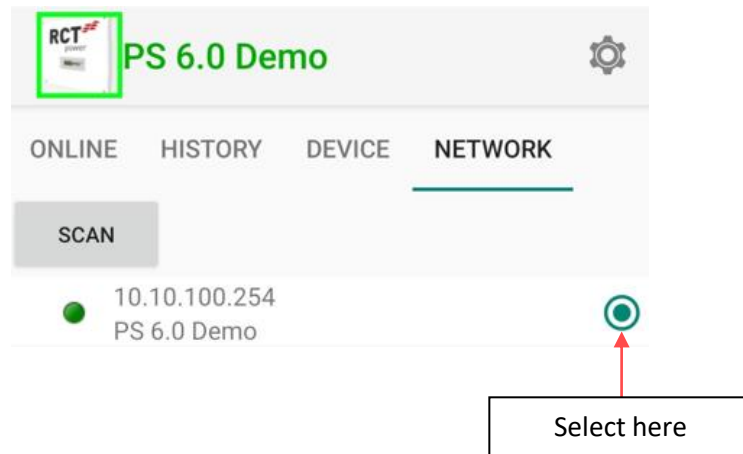
PS <power class> <4-character string>

PSAC <power class> <4-character string>

Bsp.:

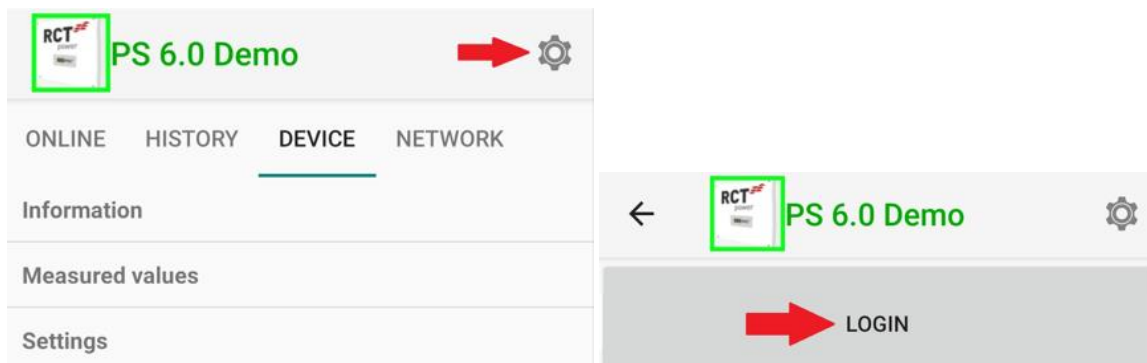HINT: The password for the inverter WiFi is its own serial number.

The name of the inverter WiFi is visible in its display.

2.1.1 Update Android:

Connection within the network tab of the RCT Power Android APP:
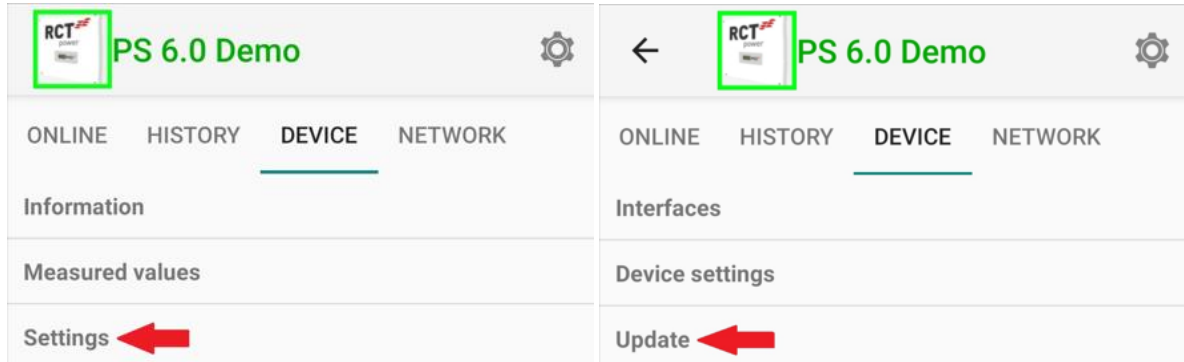

Select here

Execution:

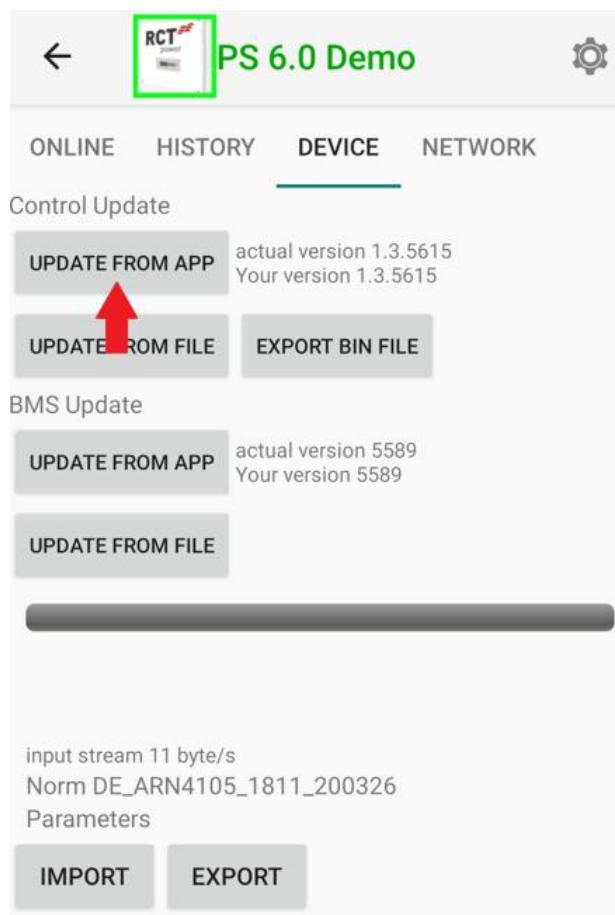Log in as installer/ customer within the RCT Power App:

As the installer you use your installer password, as the customer you need the password ********
(8x asterisk).

After that you confirm the input and see "Logout (service or customer)".

Now tap back (e.g., with the arrow at the top left corner) and navigate to the needed menu with "device" → "settings" → "update":
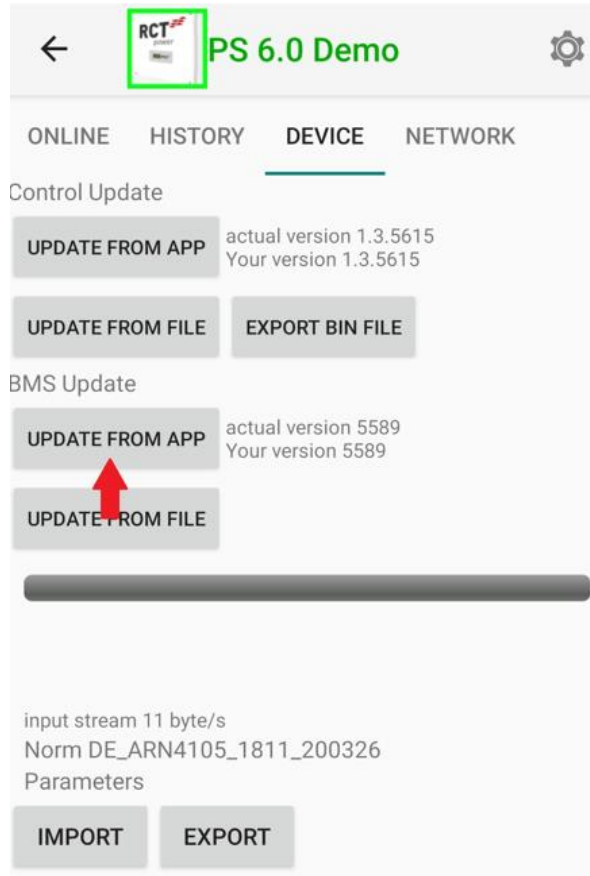

Now press "Update from App" for the controller update, read the popup windows that appear and confirm if they apply.

IMPORTANT: Make sure that Power Storage DC or Power Inverter devices get at least 100W DC power from the modules before you start the update!
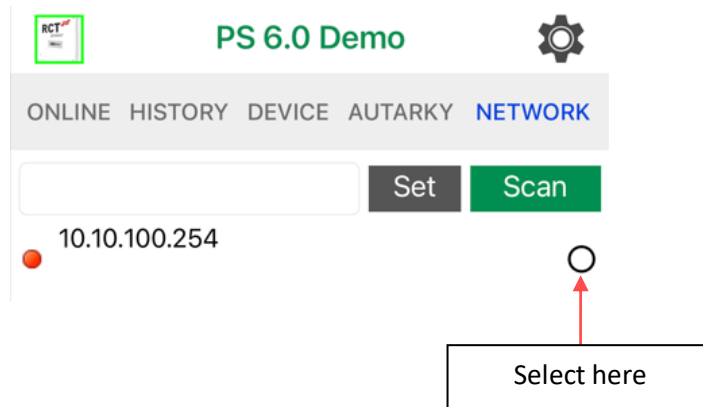
After the update has been finished, wait until the connection to the inverter is re-established. When the connection is available again, start the update for the BMS with "Update from app":

After the successful update, the battery master will update every battery module independently to ensure identical software versions and the system won't be able to use the batteries for a short time. You can see the update process by the red-green flashing LED on the bottom of the BMS.

2.1.2 Update iOS:
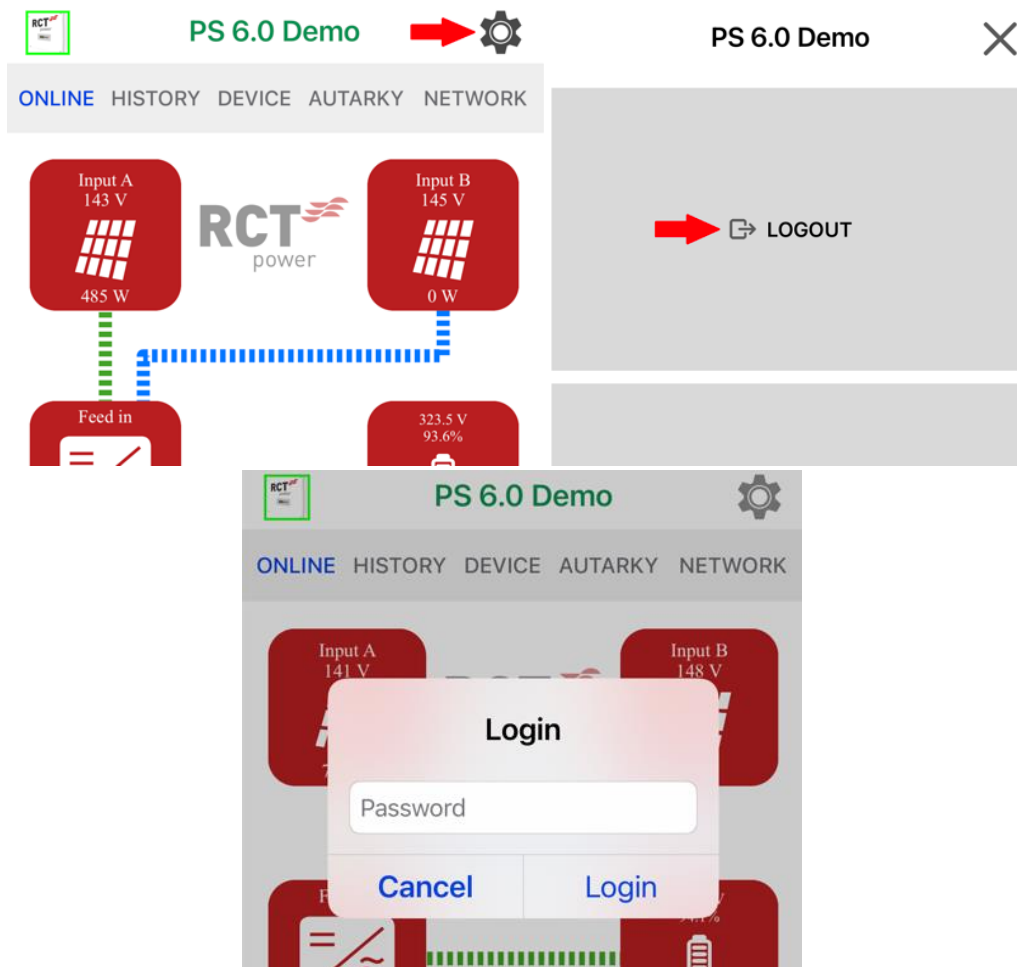
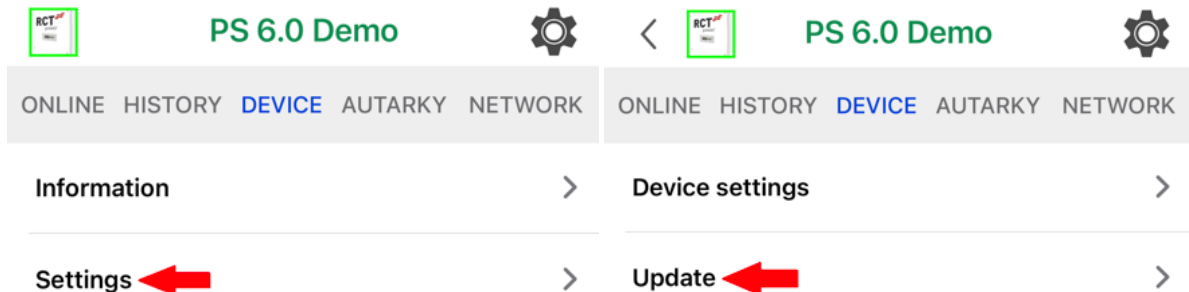Connection within the network tab of the RCT Power iOS APP:

Select here

Execution:

Within iOS you are logged in as a customer by default, but you can log in as a customer again at any time using the password ******** (8x asterisk):

Now tap back (e.g., with the arrow at the top left corner) and navigate to the needed menu with "device" → "settings" → "update":

Now press "Update from App" for the controller update, read the popup windows that appear and confirm if they apply.

IMPORTANT: Make sure that Power Storage DC or Power Inverter devices get at least 100W DC power from the modules before you start the update!

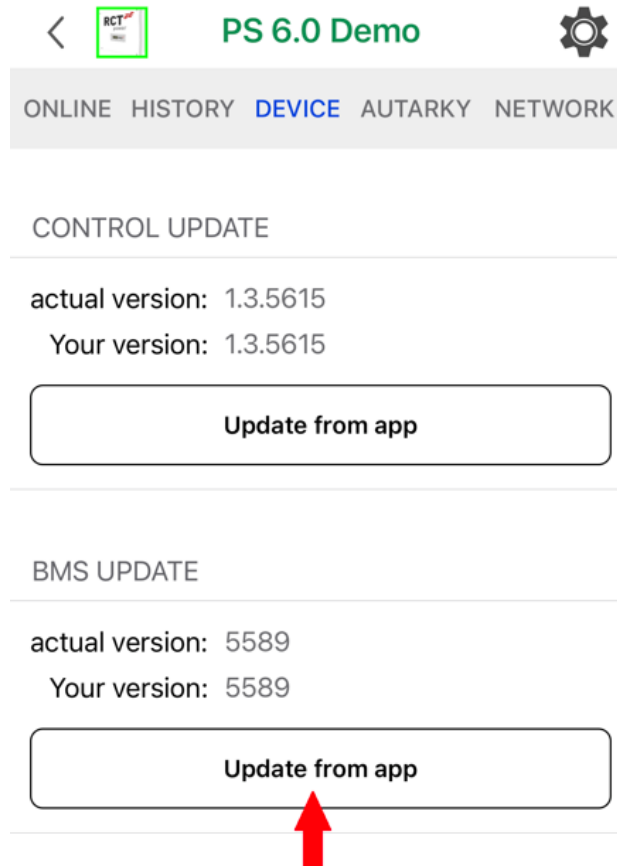After the update has been finished, wait until the connection to the inverter is re-established. When the connection is available again, start the update for the BMS with "Update from app":

After the successful update, the battery master will update every battery module independently to ensure identical software versions and the system won't be able to use the batteries for a short time. You can see the update process by the red-green flashing LED on the bottom of the BMS.

2.2 Variant 2:

My smartphone/tablet is directly connected to my router WiFi network and the inverter was previously integrated into the house network (see download area RCT Homepage Technical Documentation TD1 (Android) or TD10 (iOS)).

2.2.1 Update Android:

In the "network" tab within the RCT Power App, a device with an IP-Address assigned by your router should appear, this is also visible in the display of the inverter and usually starts with 192.168.x.x. If this does not appear, either the device has not yet been integrated into the house network, the app has been reinstalled, the router has been replaced or assigned a new IP address to the inverter.

Execution: Procedure see 2.1.1 Update Android- Execution

2.2.2 Update iOS:

In the "network" tab within the RCT Power App, a device with an IP-Address assigned by your router should appear, this is also visible in the display of the inverter and usually starts with 192.168.x.x. If this does not appear, either the device has not yet been integrated into the house network, the app has been reinstalled, the router has been replaced or assigned a new IP address to the inverter.

Execution: Procedure see 2.1.2 Update iOS- Execution

3. <u>Troubleshooting:</u>

- If there are problems during the update process and devices do not return to normal operation, contact your installer first.

- If your device gets stuck in the bootloader during or after the update (you can see the status in the display of the inverter), then completely restart the system once and, after the restart, perform the steps again according to your end device for variant 1 (if a popup window appears in the app after the restart: "Bootloader detected, do you want to continue the update?", then confirm and restart the update anyway).

  To restart the system, you must first set the DC switch on the inverter to "0" and switch off the BMS (BMS switch is described below under "5"):
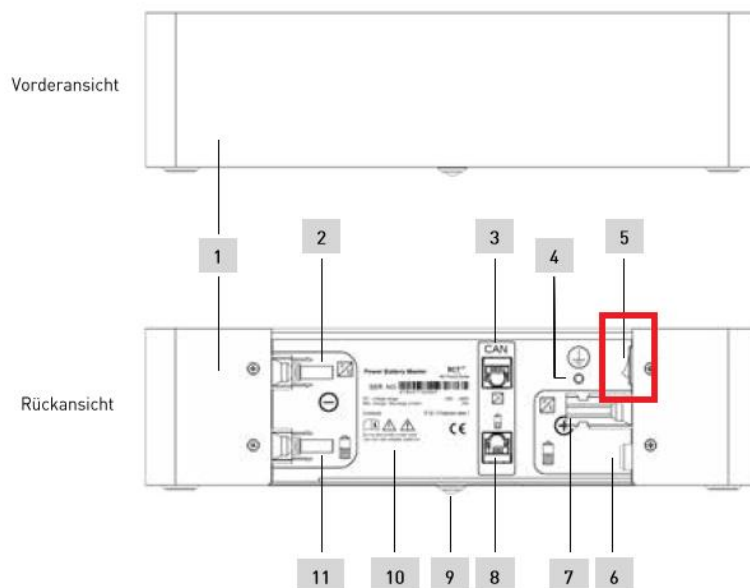
  The system is completely switched off when the inverter display is darkened. Then switch both back on (the sequence is not relevant).

  After the system restart, you may have to select the inverter's WiFi in the system settings again, as the phone/tablet may have automatically connected to another known WiFi network during the waiting time, if your smartphone/ tablet was previously directly connected to the inverter WiFi.

- If the WiFi network of the inverter is no longer visible after the update process, switch off the inverter and the connected battery. Then wait until the display of the inverter goes dark and switch both devices back on (the sequence is not relevant here)