



Battery UP by SOLAR-TECH

MONITORING SYSTEM engineering



Monitor and manage your solar installation

This revolution, resulting from the new evolution of connected objects, promises to be very exciting.

The house of tomorrow will be fully connected. Home automation will ease your life with a wide range of remote functions.

Battery UP is the smart and innovative solution for energy optimisation.

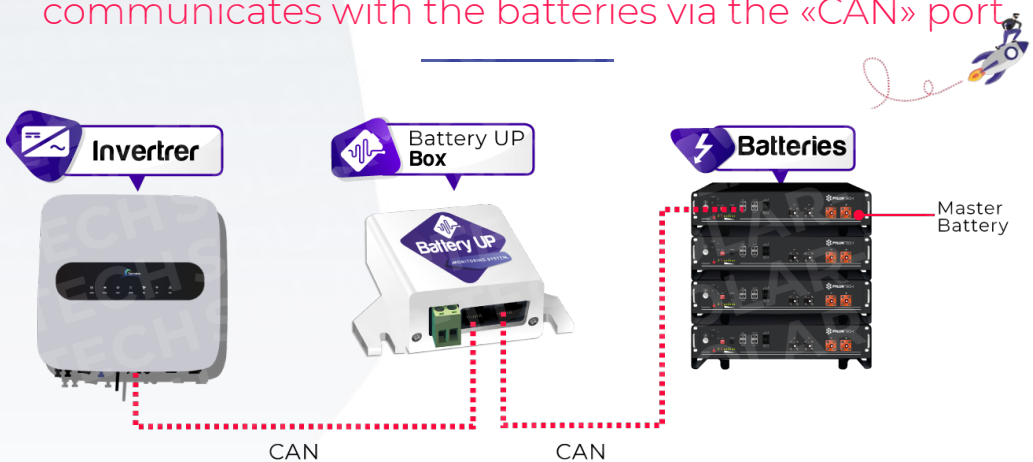
Improve your energy use and reduce your costs.



Significant benefits

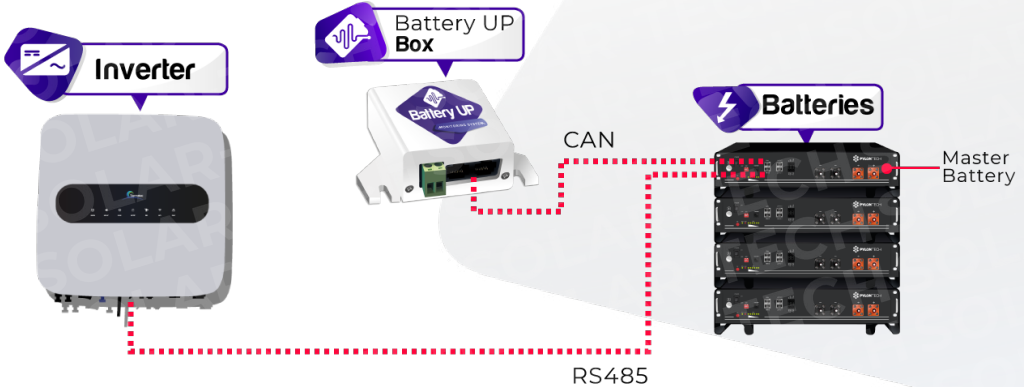
- **EASY and QUICK to set-up:** Setting up the Battery UP box takes less than 5 minutes and does not require any technical knowledge. A simple installation process manual is also available online. And if you have any problems, our online support will be pleased to assist you.
- **Rapid and accurate data:** Your data is available in real-time and recorded every 15 seconds and is accessible at all times via the Cloud.
- **Optimised energy consumption:** Through simple IFTTT scenarios, based on internal (e.g.: % battery) and external (e.g.: weather forecast) information, Battery UP will advise you on the use or non-use of your appliances and is able to trigger them at your request to ease your life. (=Automation of consumer management)
- **The wireless connected battery:** Thanks to its WIFI adapter, you can view the status of your battery in real time.
- **Interoperability** with IoT products/services, your battery and the Battery UP box.
- The wide range of situations you can create is **only limited by your imagination.**
- **Customisation:** Generate scenarios to match your needs.

Connection diagram when the inverter communicates with the batteries via the «CAN» port



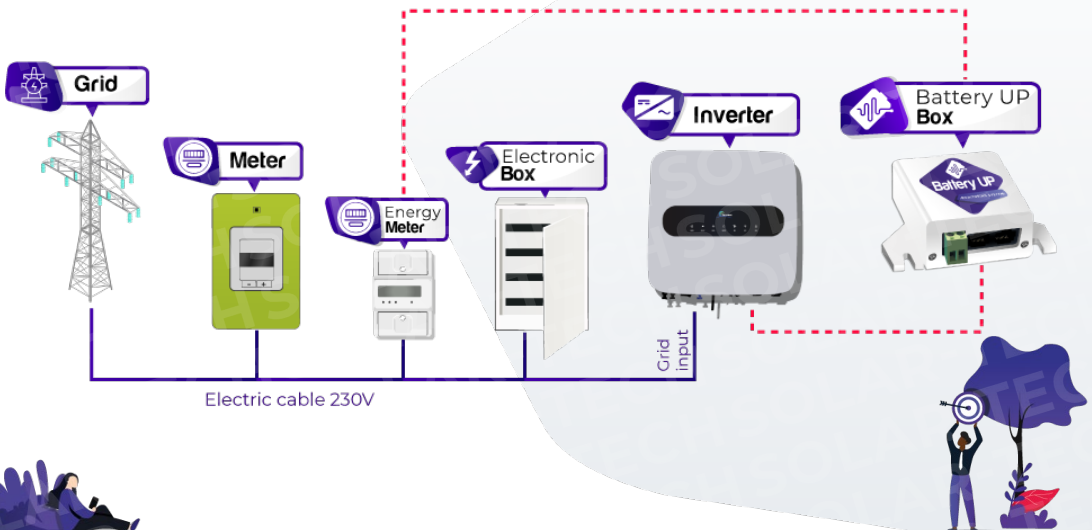
Insert the «**CAN**» cable into the «**CAN**» input of the inverter and into the «**CAN**» input of your Battery UP box. Then, the second cable will also connect the «**CAN**» input of the Battery UP box and that of your lithium master battery (the battery being at the head of your installation).

Connection diagram when the inverter communicates with the batteries via the «RS485» port.



Insert the «CAN» cable into the «CAN» input of your Battery UP box and the other end into the port of the lithium master battery (the battery being at the head of your installation).
 The second «RS485» cable connects the inverter and the «RS485» port of the master battery as well.

Diagram with the Sermatec inverter and the energy meter Acrel.



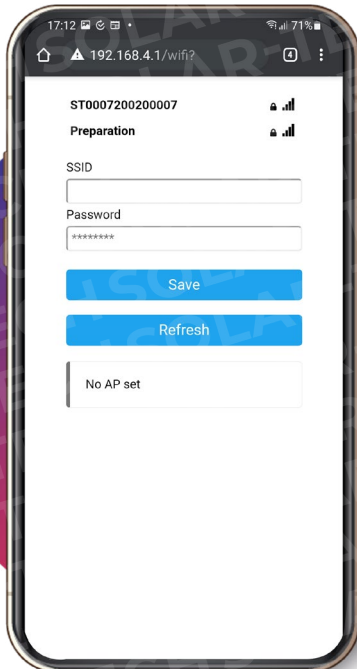
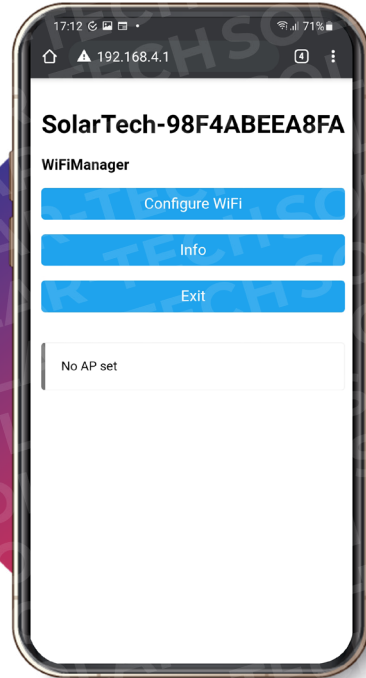
Wi-Fi setup

Step 1:

Connect to WiFi **SolarTech-98F4ABEEA8FA**
(Wi-Fi address :192.168.4.1).

If you are unable to do this, please bring a toothpick or similar object so that you can reset the connection by pressing the button in the «Configuration Button» section.

Then press «Configure WiFi».

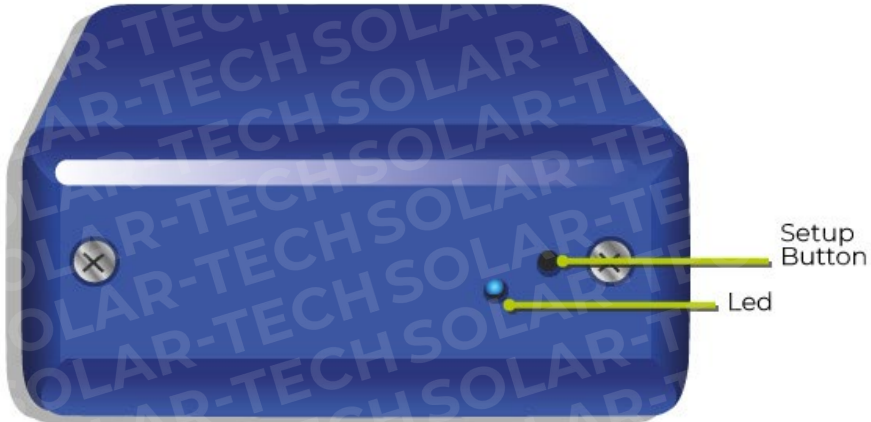


Step 2:

Choose the network from your home, it will be placed directly in the «SSID» field.

Enter your password and click on «Save».

Start-up of the box



When starting up, the blue LED lights up briefly.

Afterwards,

If the SSID (the name of the Wi-Fi network) and the PWD Wi-Fi (Wi-Fi password) are not known or if the button has been pushed.

- The blue LED flashes **quickly** to indicate that you are entering the Wi-Fi **configuration mode**.
- The blue led remains **fixed** during the **configuration**.
- After validation on the web page, the module **restarts** (delay of a few seconds). The blue led goes out and the module restarts at the beginning.

If the SSID (the name of the Wi-Fi network) and PWD (Wi-Fi password) are known, the module will restart.

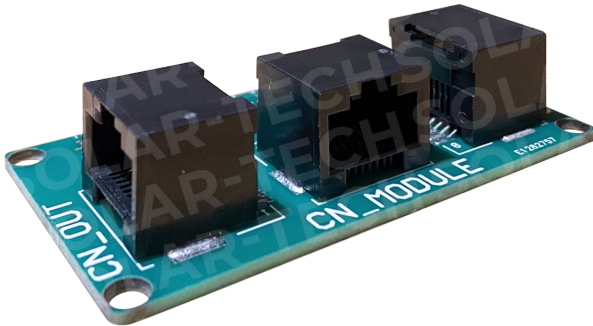
• If the SSID and PWD are correct :

The blue led flashes slowly, so there is a Wi-Fi connection. Then, the blue led is weak and flashes once per frame sending.

• If PWD or SSID are incorrect :

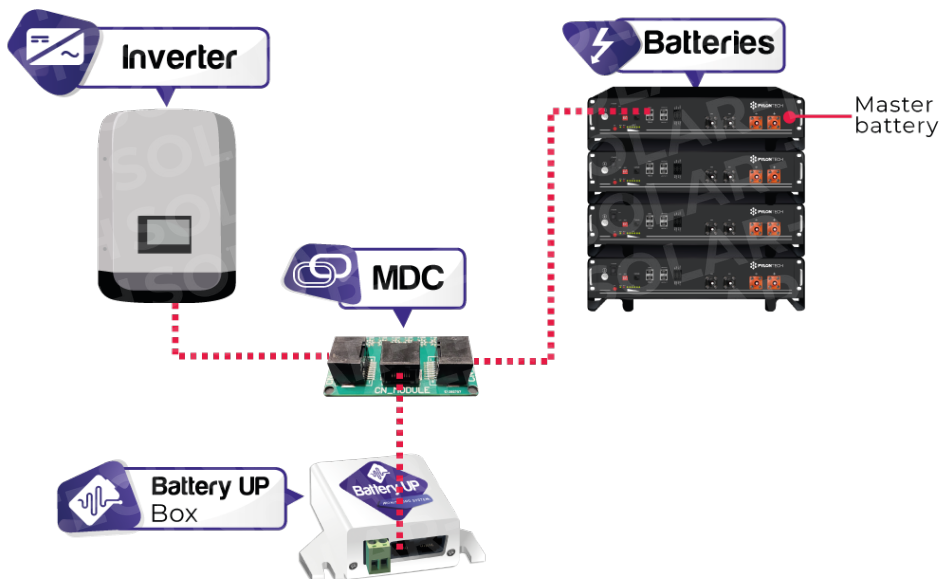
Connection to the Wi-Fi impossible, the blue led lights up longer without flashing and goes out. It is not lit at all and the connection has failed.

MDC module

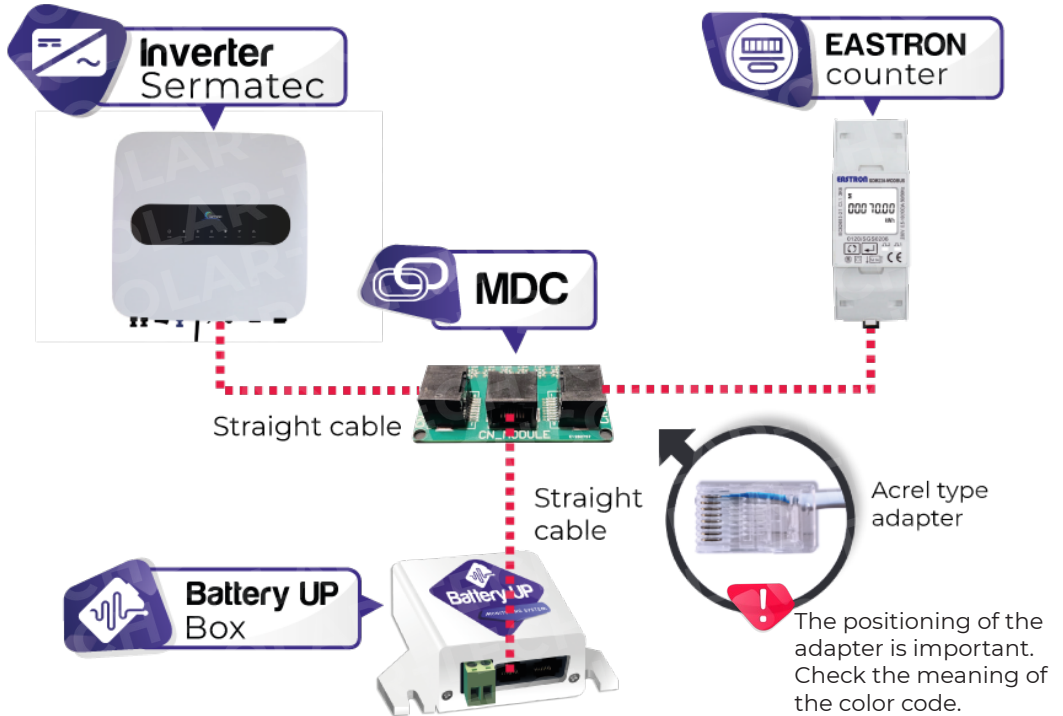


The MDC module acts as an intermediary when your inverter communicates with the batteries via the CAN port.

MDC module connection diagram



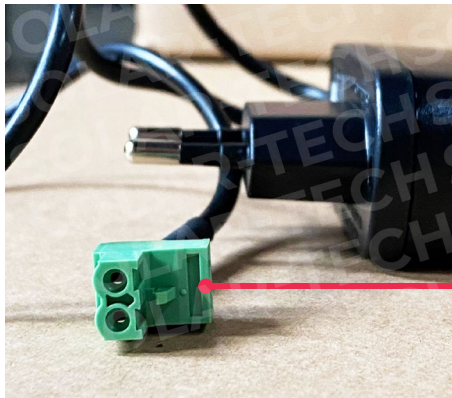
Connection diagram of the Eastron meter and the Sermatec inverter



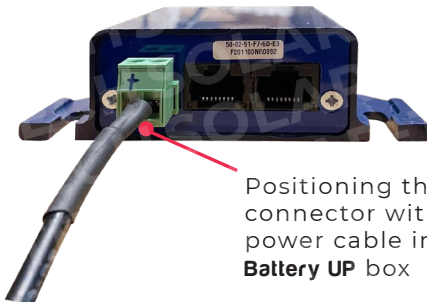
Connecting the power connector



Power cable supplied with your **Battery UP** box

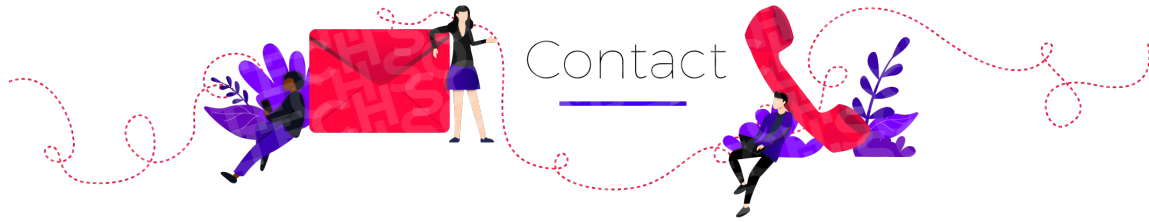


Zoom on the connector



Positioning the connector with the power cable in your **Battery UP** box





Contact

If you have any questions, feel free to contact us by e-mail or telephone. We are available from Monday to Friday from **8.30 am to 4.30 pm**



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The text and illustrations correspond to the current state of the art at the time of print/creation of this manual. We reserve the right to make changes.

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