

Commissioning Guide BETA RHI 6K-48V 1P Series

1. First Step: Polarity Check

The polarity of both the PV array and the connected batteries must be verified, as **a reverse polarity connection can result in damage to the installation, equipment and operator.**

2. Inverter Activation

This step can follow two paths, depending on whether the equipment has a battery bank or, on the contrary, batteries will be installed in the future.

- If so, first connect the AC current, then close the battery protection fuse to feed the inverter and wait, the inverter will be activated in a matter of several seconds.
Once the equipment has started, switch on the PV array.
- If not, first switch on the AC current, then feed the inverter with the PV array.

3. Device Configuration

Access the menu by pressing ENTER once.

Once in the MENU, go to ADVANCED SETTINGS and press ENTER.
The equipment will ask for a 4-digit password, which is 0010.

ADVANCED SETTINGS

- SELECT STANDARD: select the RD1699 regulation.
If the grid is unstable (voltage or frequency surges), select the G99 regulation.
- STORAGE ENERGY SET:
 - BATTERY SELECT: indicate the type of battery connected.
For U-POWER batteries, the following possibilities are available:
 - UE-H Series: PYLON LV
 - UE-I Series: DYNESSE LV
 - 48Li100-3U Series: PYLON LV

When selecting any battery mode, you will be prompted to set the following values:

- "OverDischg SOC" > set "20%" (discharge limit in normal use).
- "ForceCharge SOC" > set "10%" (emergency charge when the battery reaches this storage level).
- "ForceChg Limit" > power at which the battery is to be charged during emergency charging (from the mains). Generally 1600 W is selected so as not to trigger protections.

If, on the other hand, there is no battery installed at the moment, select: NO-BATTERY.

- METER SET:

- METER SELECT: using the meter supplied with the inverter (EASTRON SDM120CT), you must select: EASTRON 1PH METER.
- CT DIRECTION: if during installation, you have positioned the meter toroid incorrectly, i.e. with the date pointing to the loads of the installation, select REVERSE. Otherwise, do not change this function.

- STORAGE MODE SELECT:

In this parameter, the working mode of the equipment is defined, and it must always have the following configuration:

- FEED IN PRIORITY: OFF.
- BACKUP: OFF.
- OFF-GRID: OFF.
- SELF-USE: ON.
- CHARGING FROM GRID: (to be determined if you want the equipment to also charge the batteries within a specific schedule with utility power). Generally, you will select: NOT ALLOW.

- EXPORT POWER SET:

- ON/OFF: Select ON mode.
- BACKFLOW POWER:
 - For landfill 0: +0000 W.
 - For sale of surplus: +9900 W.
- FAIL SAFE: Select ON mode.

The equipment is ready to be used. In the event that the FAIL SAFE fault appears on the screen, check the installation (wiring) of the energy meter (METER), as the polarity of the communication cable has most probably been reversed.

The configuration of the application for monitoring via WI-FI must be carried out with the mobile application, after acquiring the STICK-WIFI (accessory) for this equipment.