



5K 3XP

Solis
HYBRID INVERTER
RHI Three Phase
Whole Power Range

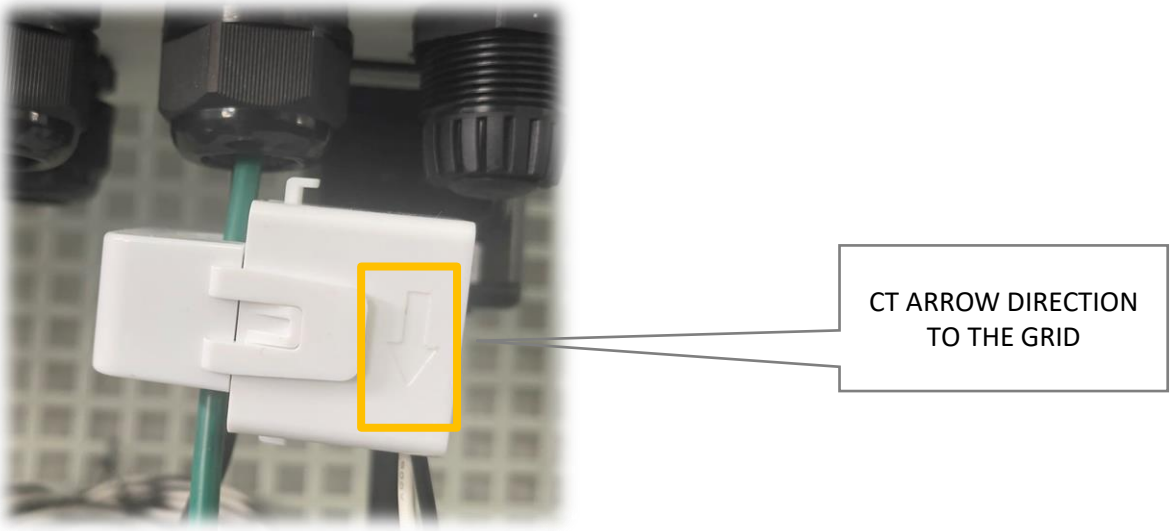
Solis Hybrid Three Phase Inverter Quick Configuration Guide

Preparations:

Underneath the inverter you'll have access to the connection board of the inverter, CAN port, CT and Battery Power Connection Terminal are all located here.







Step 1. Safety Preparation

For Safety reason it is forbidden to install any power inputs such as PV, GRID or BATTERY before having completed all the data wiring connection as explained below.

- The PV cables cannot be conneted at this stage
- Grid and Generator wires cannot be conencted at this stage
- Battery must kept OFF while performing the connection operations, power cables to be connected at last.
- Ground the Inverter immediately after fixing it on the wall





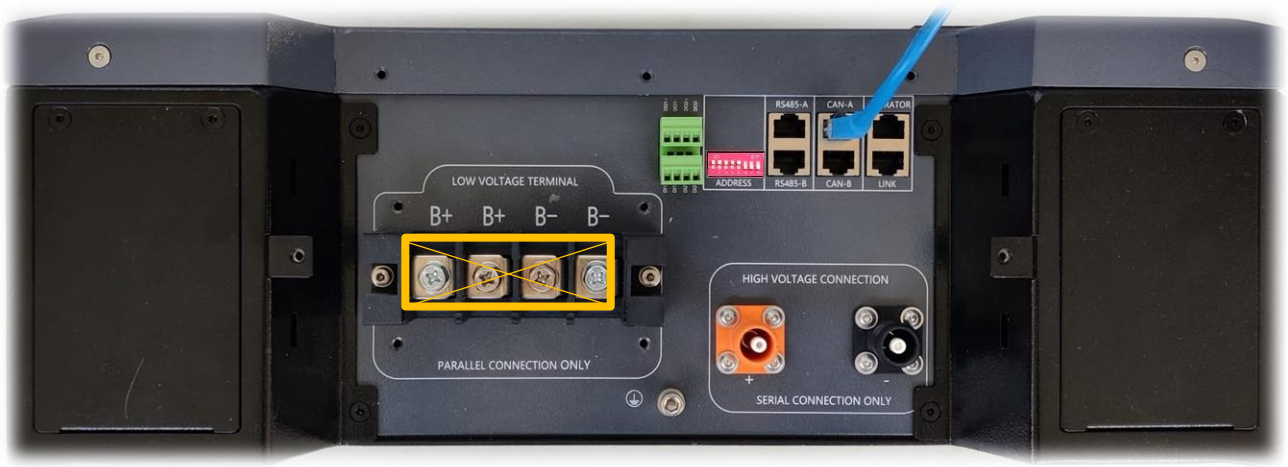
Step 2. Battery Preparation

Keep the HV BOX breaker and the BMS switch on “0” OFF.
Assemble the tower and the DIP Switch of the HV Box and batteries in accordance with the relevant manual.
Connect the provided CAN cable RJ45 to the CAN 2A port of the HV BOX.
The RJ45 Terminal on the other side needs to be crimped to match inverter PIN OUT.
Do not connect the power cables at this stage.

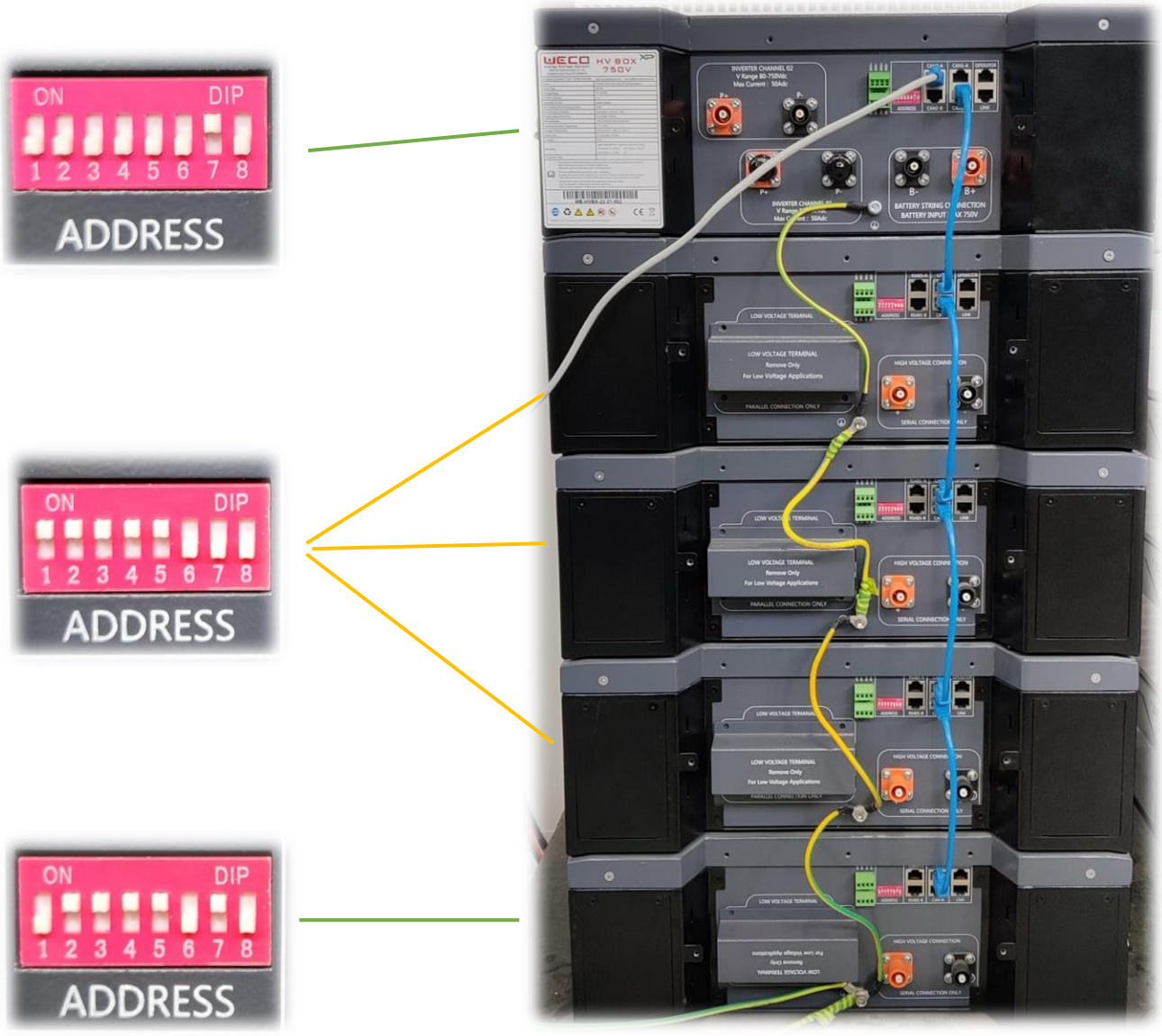
HV BOX XP EXAMPLE
HV BOX XP DIP Switches are set as 00000010 (Only DIP 7 ON).



5K3 XP EXAMPLE
DIP switched are set as 11111000. Only DIP of last slave must be set differently 01111010 (Only dip 1, 6, 8 OFF).



TOWER EXAMPLE



Step 2.1. Can Connection

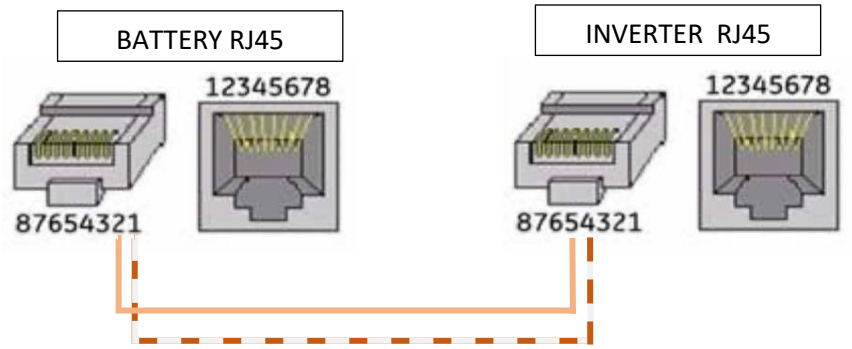
WeCo Provides an RJ45 cable Type T568B with any battery Kit.

BMS CAN PIN OUT at battery side is the same for any WeCo battery.

The RJ45 Terminal on the inverter side needs to be crimped to match inverter PIN OUT

Terminal	Battery Side RJ45	SOLIS Side RJ45
GND	PIN 3	---
CAN -L-	PIN 2	PIN 5
CAN -H-	PIN 1	PIN 4

ATTENTION SOLIS CAN BMS CABLE TO BE MODIFIED LOCALLY



BATTERY SIDE KEEP THE ORIGINAL RJ45 TERMINAL



INVERTER SIDE MAKE A NEW TERMINAL PIN OUT



Step 3. Battery Power Connection

Keep Inverter and Battery OFF.
Open the lid and connect the power Cables from the battery to the Inverter.
Use a Torque Wrench to secure the cables bolt.



INVERTER OFF
BATTERY OFF

INVERTER CAN
RJ45 INPUT

KEEP THE SYSTEM OFF



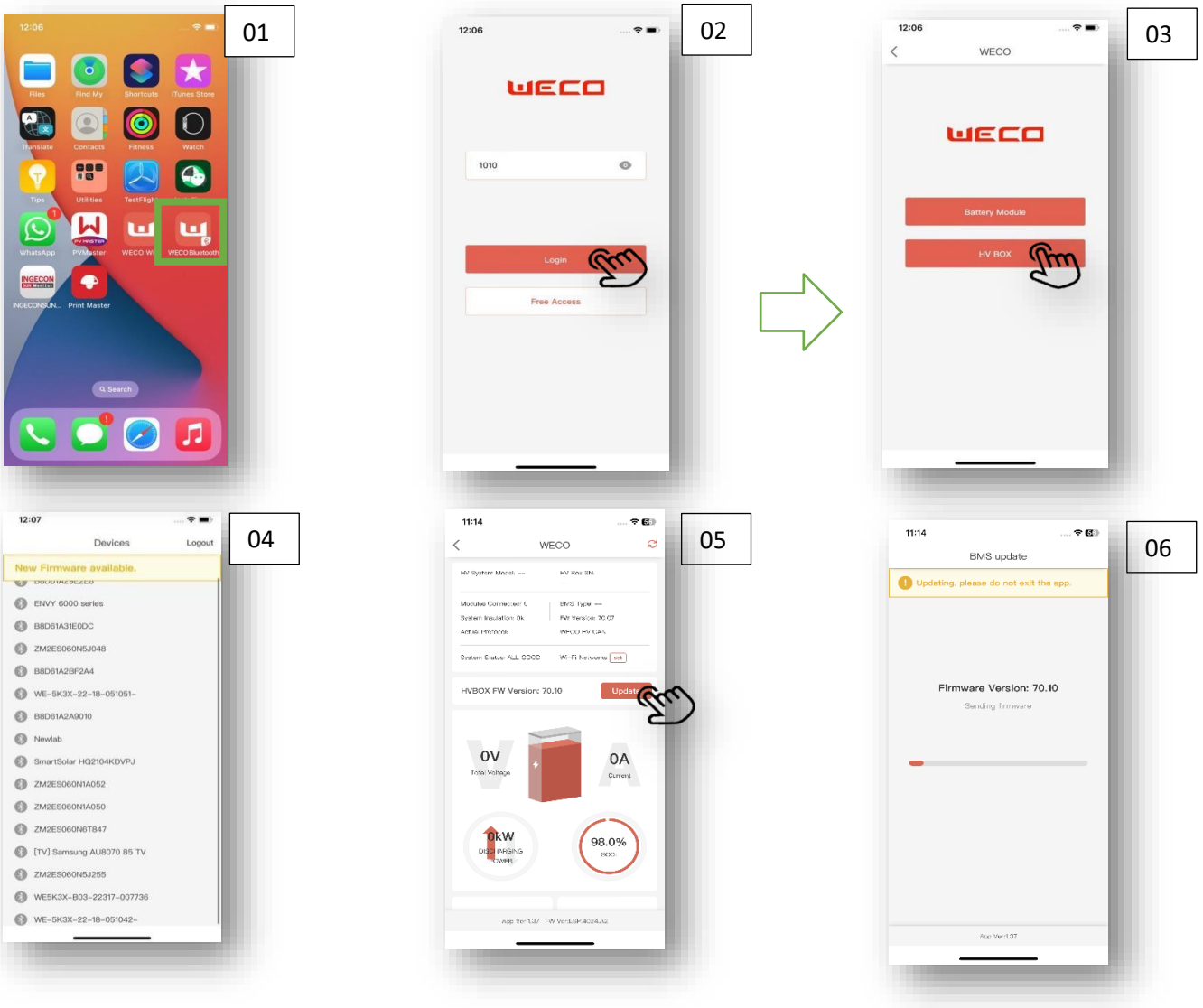
HV BOX XP
model

Step 4. Hv Box FW Upgrade and Protocol Set

Download the WeCo Bluetooth APP from Google Play of from APP Store.
The Bluetooth APP will allow you to inspect the battery, set the battery and monitor the BMS functions during the commissioning phase.
As good practice, it is always required to search for the latest FW for the battery.
The 5K3 XP Model (so as the HV BOX) has a built in WiFi/BT device and it is possible to find the battery Bluetooth Signal (in the form of battery Serial Number) directly from the in-APP list.

- Open the BT APP
- Turn On the Battery
- Access the APP using the password **1010**.
- Select **HV BOX**.
- Scroll Down and tap on the Serial Number of your battery.
- Once the main page will display your battery info, scroll down and tap on the FW upgrade button if available (if not displayed means the battery is UP to Date).

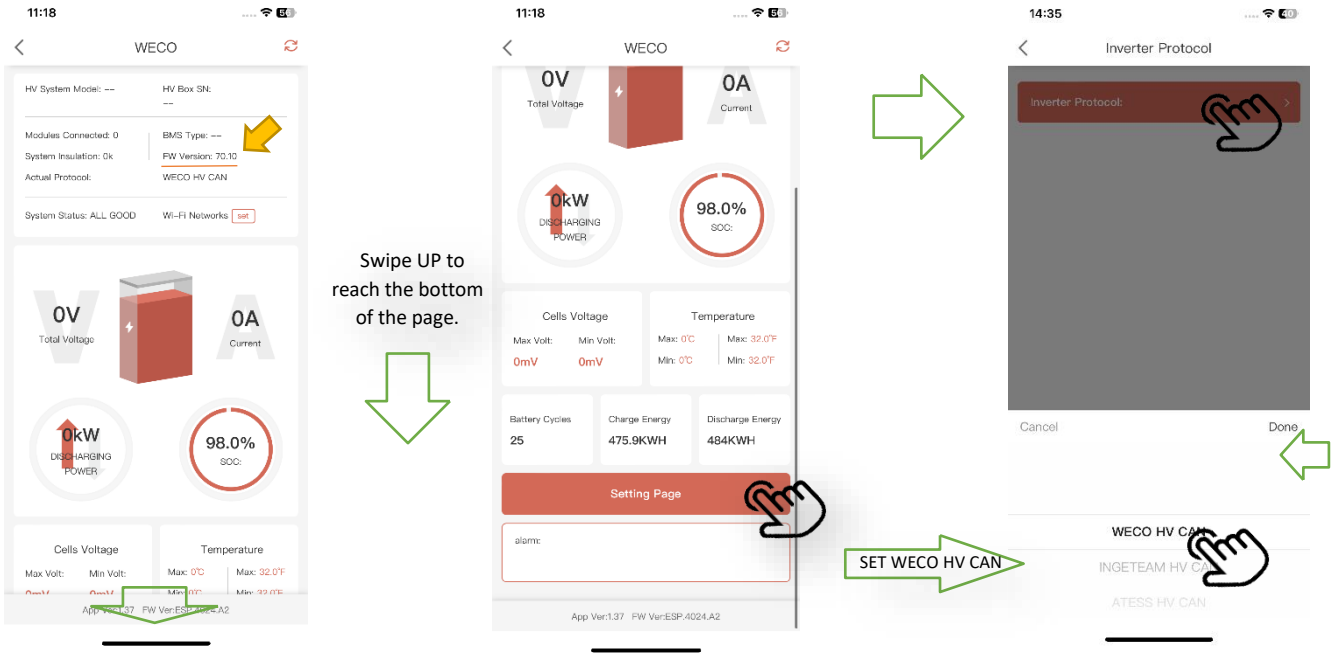
APP STEPS



Same procedure applies to the Battery 5K3-XP, you just need to select “Battery Module” at the step of screen 03 and the Battery serial number on the next step, then update.

Protocol Set Up

Wait until pop up confirms that the update process is successful, then select the HV Box and proceed to set the inverter protocol.



ATTENTION

Turn Off the battery to proceed with the remaining operations.

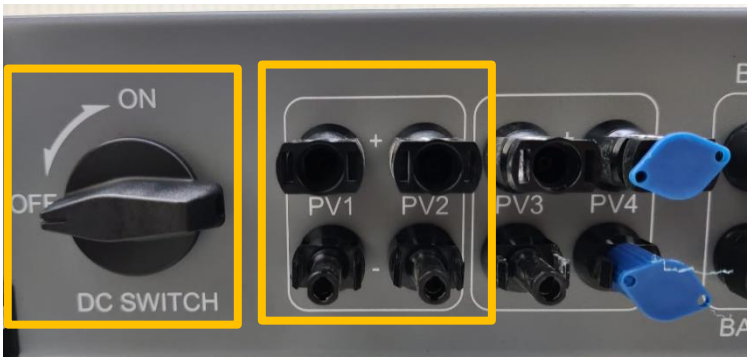
Keeping the battery ON will damage the BMS an potentially the inverter power protection circuit.

Step 5. Inverter Wiring

Now it is possible to wire the GRID and PV cables into the inverter.

Then press the batteries BMS Switch on 1 and the HV Box breaker on ON and wait for the Start Up procedure.





At the end of the procedure **the PV breaker can be turned ON**.

Step 6. Inverter Set up

Inverter Firmware Update

On the first startup, communication alarm may be displayed. This is normal as it necessary to set the right battery settings to start communication.

To update the inverter firmware press “ENTER” to enter the menu. Use the “UP” and “DOWN” keys to navigate and “ENTER” to confirm.

Press “DOWN” until you reach Advanced Settings, then press “ENTER” and input the Password.





Now go “DOWN” until you reach Software Update and press HMI or DSP for update to the last firmware available.





Inverter Protocol Setting

Press “ENTER” to enter the menu. Use the “UP” and “DOWN” keys to navigate and “ENTER” to confirm.

Press “DOWN” until you reach Advanced Settings, then press “ENTER” and input the Password.





Now go “DOWN” until you reach Battery Select and select WECO as your battery.





Now you can set the value for Overdischarging and Forced Charge SOC; input your preferred values with “UP” and “DOWN” keys and then press “ENTER” to confirm.





Now the battery is recognized by the inverter and the parameters are visible.

ATTENTION, IMPORTANT
To ensure that all the information are properly displayed and received by the inverter it is necessary to make a double control by entering in Information and then BMS info.





In the Screen it Is possible to see the correct information received by the inverter from the Battery BMS, such AS: (Image A)

- SOC %
- Voltage
- Current
- Power
- Status

Now the whole system is ready to work:

BATTERY CHARGE



BATTERY DISCHARGE



To enable the WeCo WiFi Monitoring App, please follow the relevant manual available on our Web Site

https://wecobatteries.com/download-area/