TBB Link Smart Configuration Guide V1.0

Version record

Date	Version	Remark	Author
2022/03/24	V1.0	First version	Vernon Lin

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1. Introduction to Smart Configuration

This guide is applicable to the TBB Kinergier Pro series. It will guide you through the steps required to configure single-phase parallel and three-phase parallel systems, saving you the trouble of tedious configurations on each inverter.

Remark: TBB Link has operation prompts for different types of parallel systems during the Smart Configuration, so this guild will explain by taking the three-phase parallel connection of 6 Kinergier Pro as an example.

Please note:

a) Make sure to use the TBB Link upper computer version 1.0 or above. The latest version is always recommended, which can be downloaded from the TBB official website.

2. List of tools for Smart Configuration

a) Computer with Windows system.

b) A TBB Link upper computer (please refer to the corresponding document for the installation of the TBB Link upper computer and the TBB Interface driver).

c) See Table 1 for a list of TBB Interface tools

Table 1

NO.	Image	Item	Description
1		TBB Interface	RS485 to A USB Converter
2		Inverter-TBB Interface communication cable	RJ45 8P8C communication cable
3		TBB Interface-computer communication cable	Type A + type B USB cable

3. Communication connections for Smart Configuration

a) Please turn off the inverter and all switches before establishing the connection.

b) Remove the cover of the inverter wiring area.

c) Connect the parallel communication cables of all inverters as required.

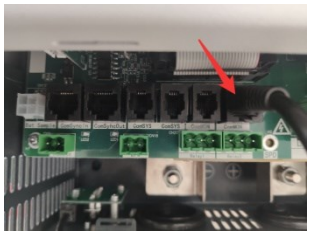
d) Use the TBB Interface tool to connect the ComMON port of the inverter to the USB port of the computer, as shown in Figure 1 and Table 2.

Please note: If the inverter has only one RJ11 COMMON port, please use the 8P8C to 4P4C communication cable to connect the inverter and TBB Interface.



Figure 1

Table 2

Applicability	Computer	TBB Interface	Inverter
Kinergier Pro Series Connection Diagram			

4. Instructions for Smart Configuration

a) Make sure all connections are correct.

b) Turn on the switch between the battery and the inverter.

c) Keep all inverters turned off with the screens completely off.

d) Open the "TBB link.exe" upper computer and click the "Smart Config" button under the "Expand".

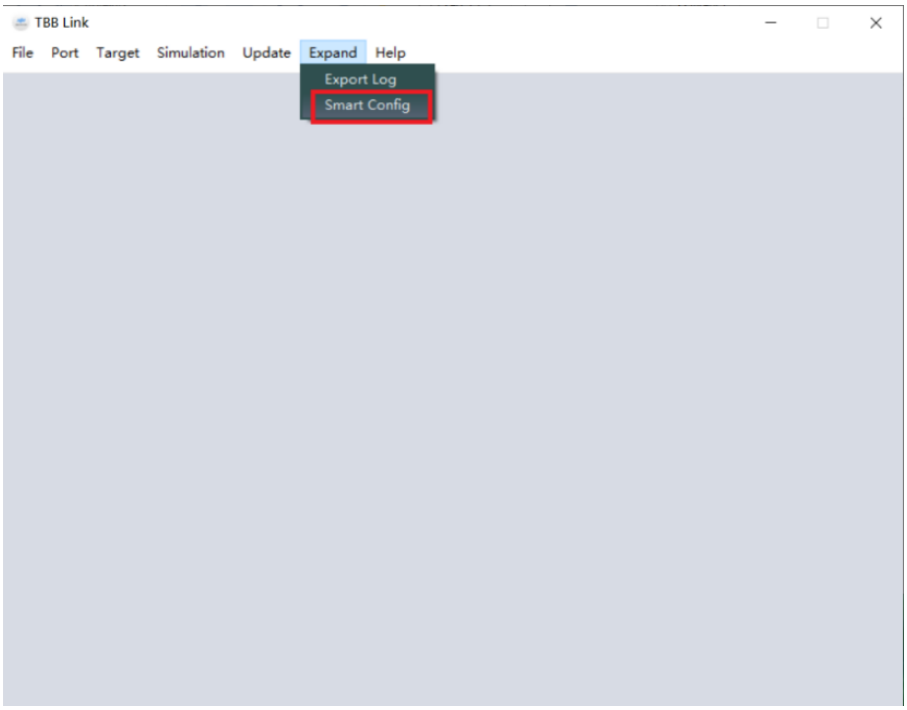


Figure 2

e) Select the correct COM port, normally the default (different COM port options will be displayed on different computers), click "Open" and then click the "Next" button.

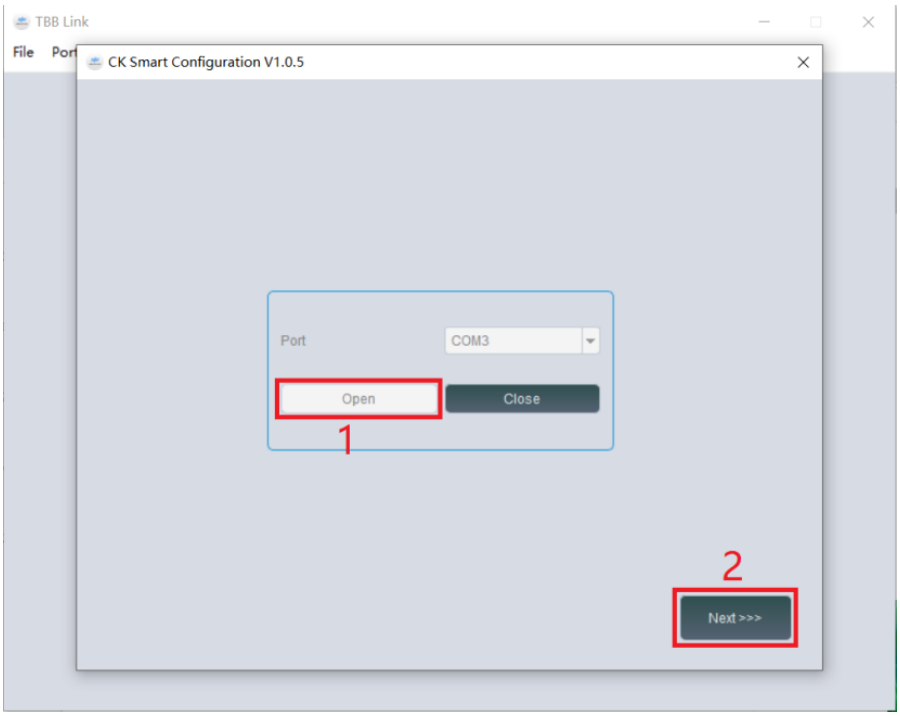


Figure 3

f) Select the type of system to be configured and click the "Next" button.

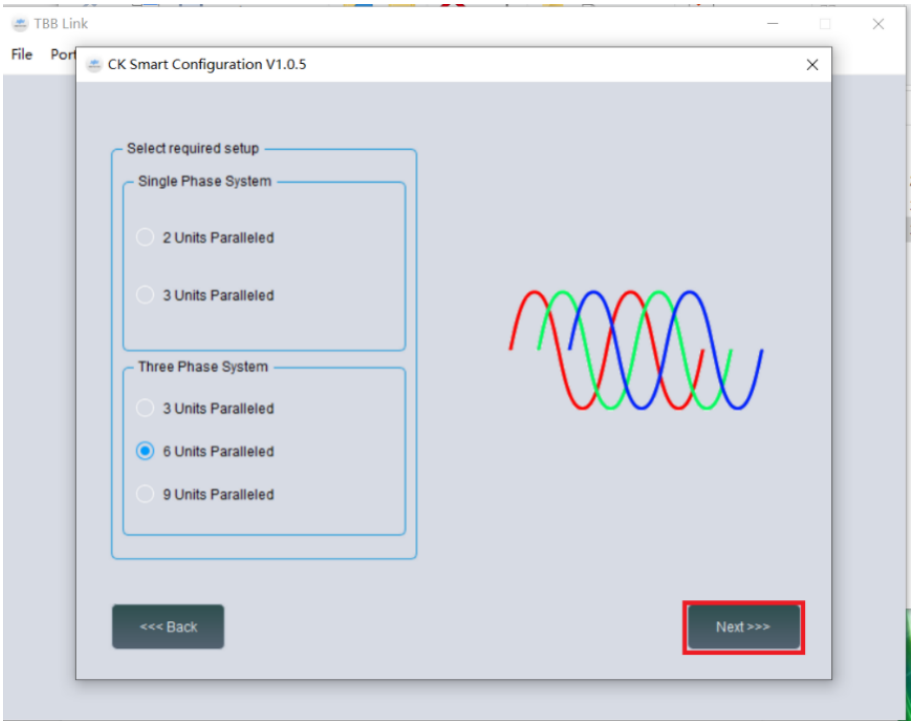


Figure 4

g) Check the prompt message and click the "OK" button after you make sure all devices are turned off.

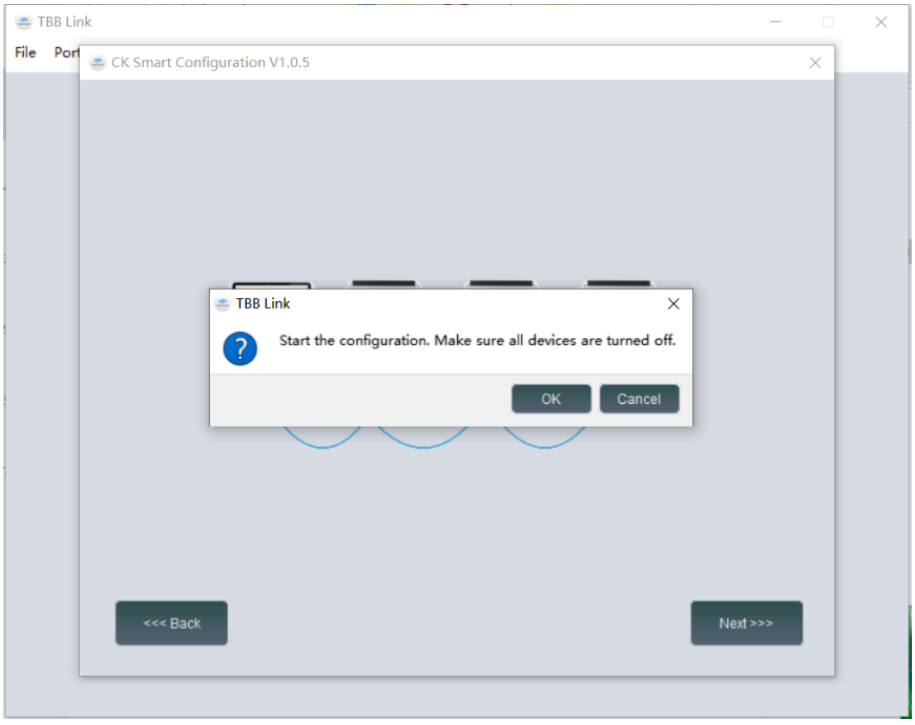


Figure 5

h) According to the prompt message, turn on the inverter (to be set as U1) to enter standby mode and click the "OK" button to start the configuration for the U1.

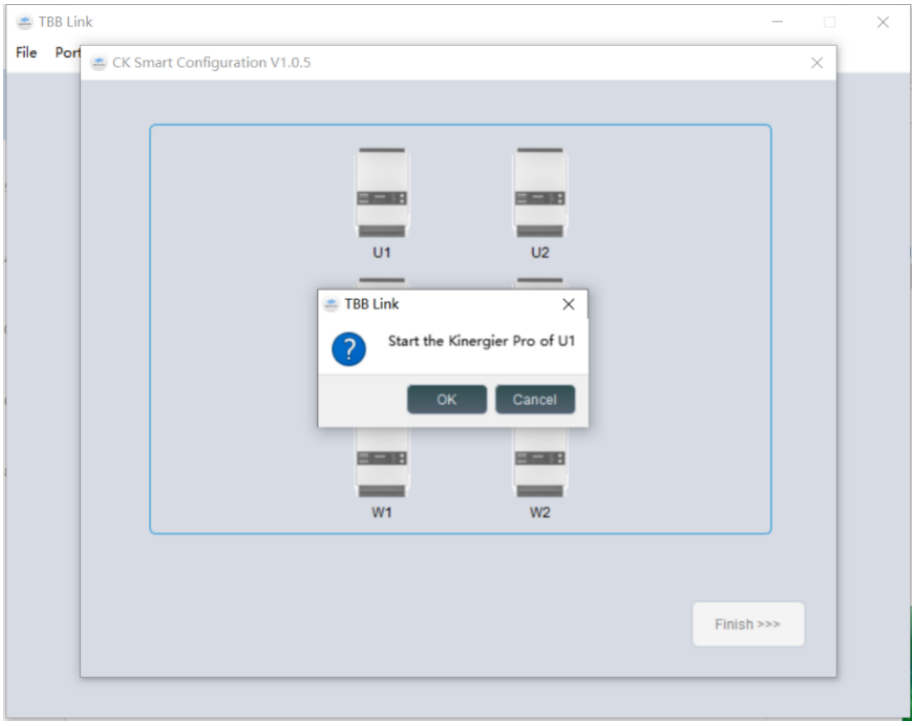


Figure 6

i) After the U1 configuration is completed, it will be automatically turned off and the following prompt will pop up. According to the prompt message, turn on the inverter (to be set asV1) to enter standby mode and click the "OK" button to start the configuration for the V1.

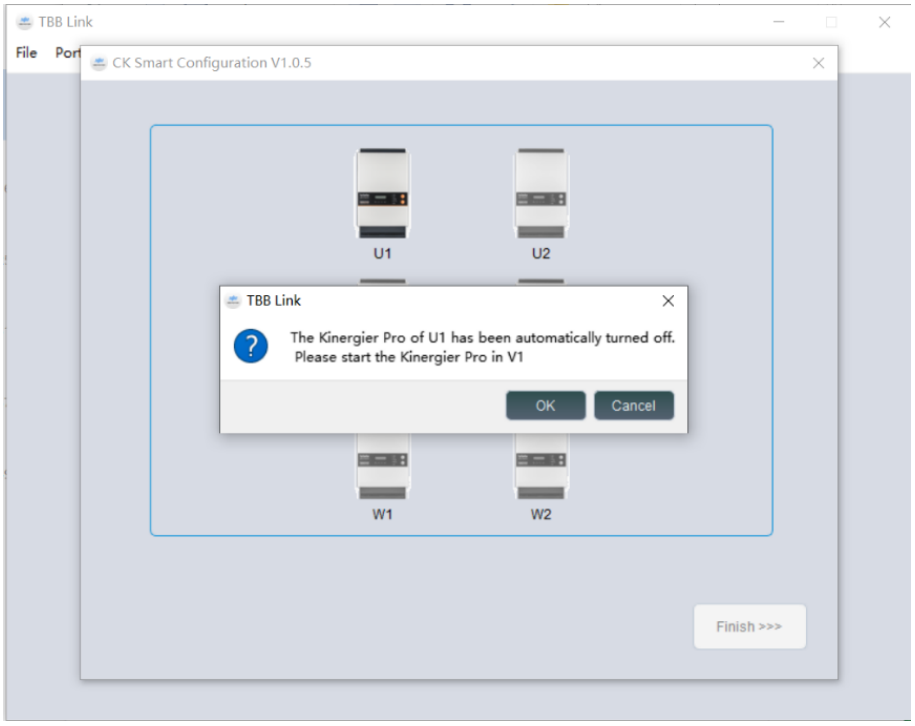


Figure 7

j) After the V1 configuration is completed, it will be automatically turned off and the following prompt will pop up. According to the prompt message, turn on the inverter (to be set as W1) to enter standby mode and click the "OK" button to start the configuration for the W1.

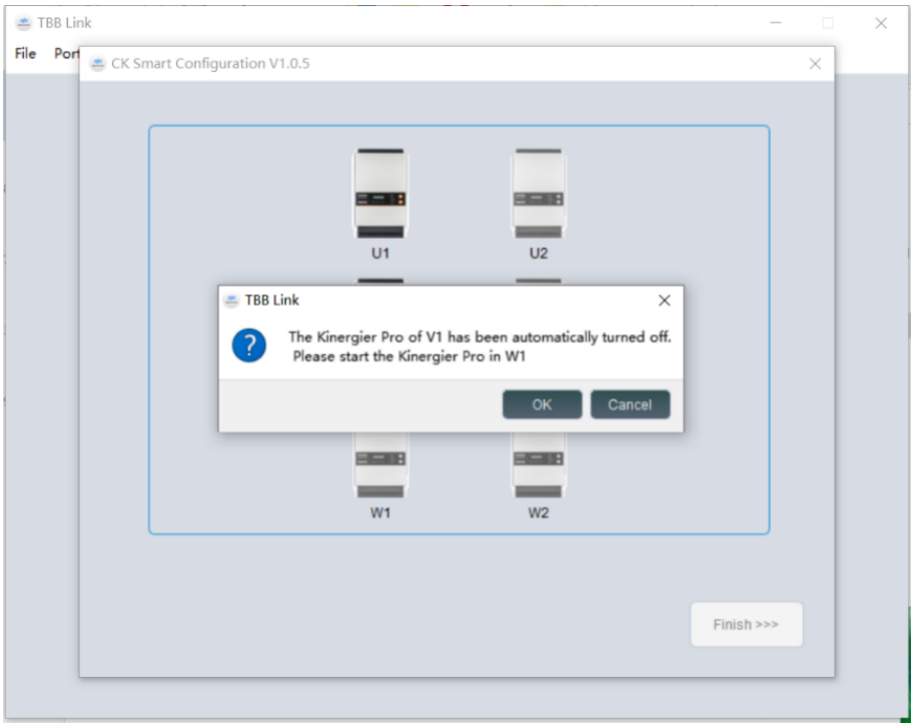


Figure 8

k) After the W1 configuration is completed, it will be automatically turned off and the following prompt will pop up. According to the prompt message, turn on the inverter (to be set as U2) to enter standby mode and click the "OK" button to start the configuration for the U2.

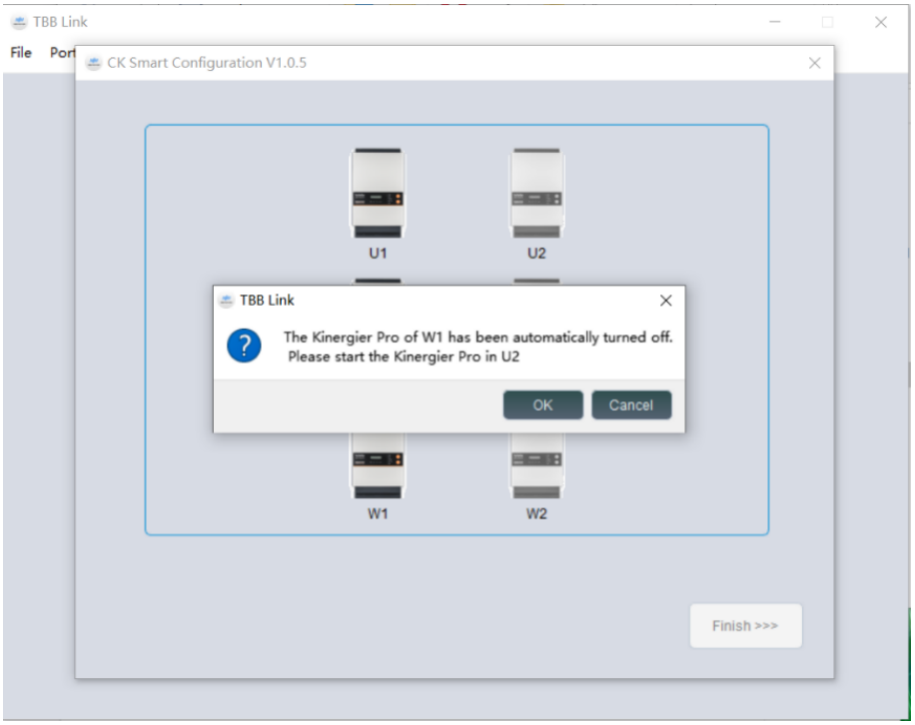


Figure 9

l) After the U2 configuration is completed, it will be automatically turned off and the following prompt will pop up. According to the prompt message, turn on the inverter (to be set as V2) to enter standby mode and click the "OK" button to start the configuration for the V2.

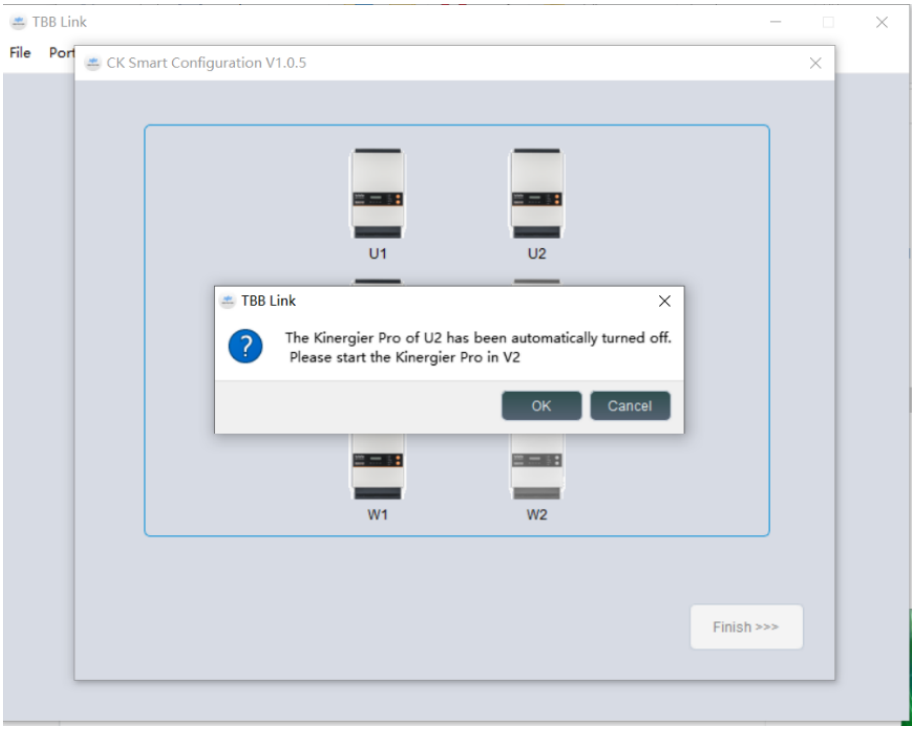


Figure 10

m) After the V2 configuration is completed, it will be automatically turned off and the following prompt will pop up. According to the prompt message, turn on the inverter (to be set as W2) to enter standby mode and click the "OK" button to start the configuration for the W2.

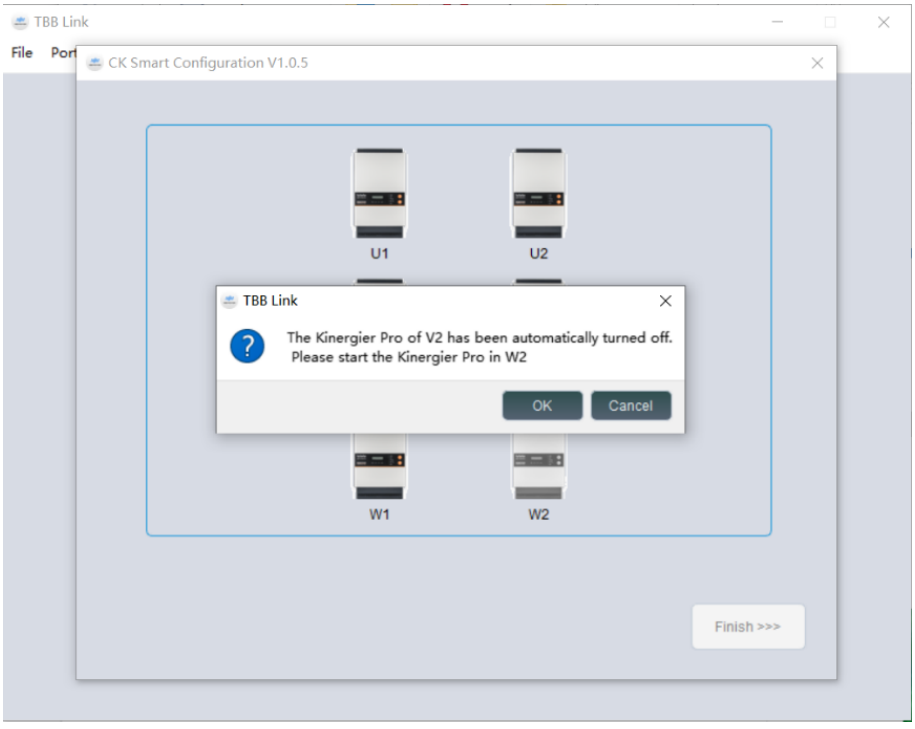


Figure 11

n) After the W2 configuration is completed, it will be automatically turned off and the following prompt will pop up. According to the prompt message, turn on all inverters to enter standby mode and click the "OK" button.

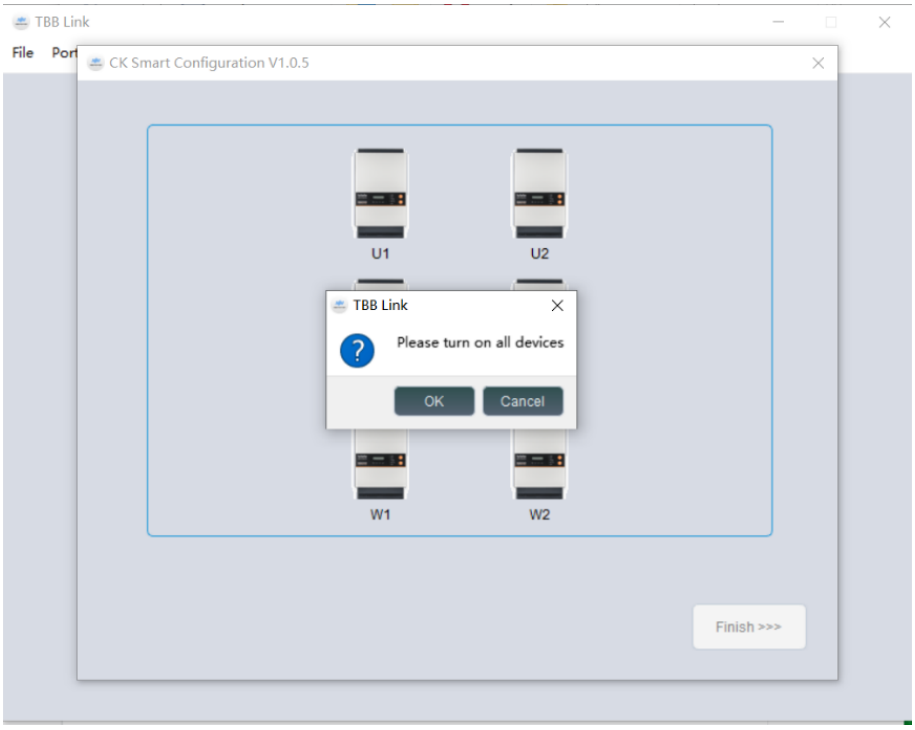


Figure 12

o) TBB Link will check whether configurations for all inverters are completed. Once all configurations are made sure to be correctly set up, the following prompt will pop up and then click the "OK" button.

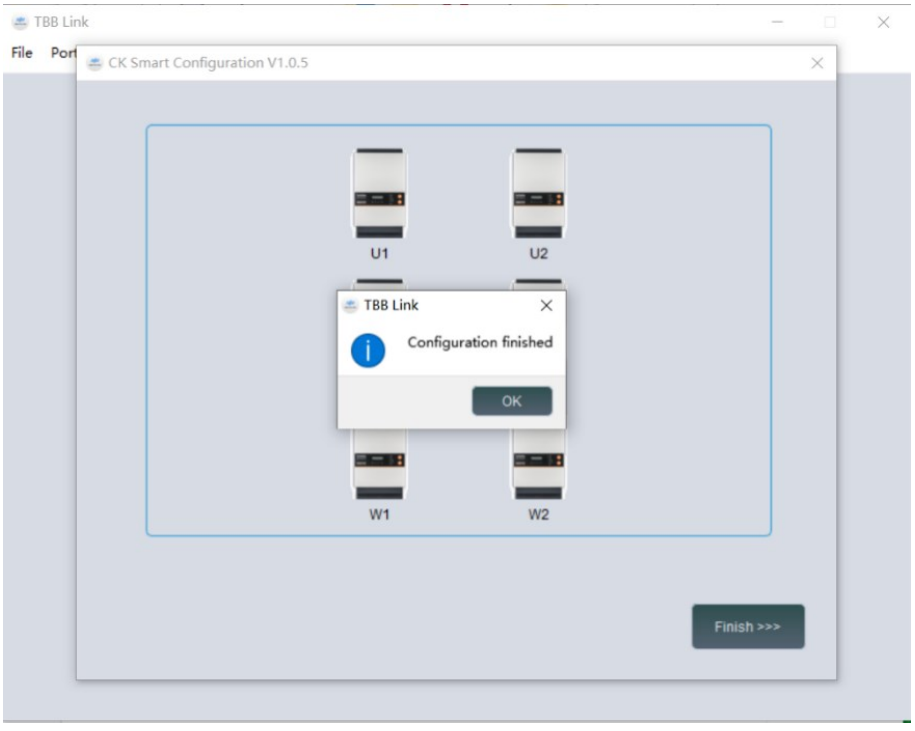


Figure 13

p) The TBB Link will obtain the inverters' information. Enter the main page, make sure there are no alarms with all inverters and then you can configure the entire system.

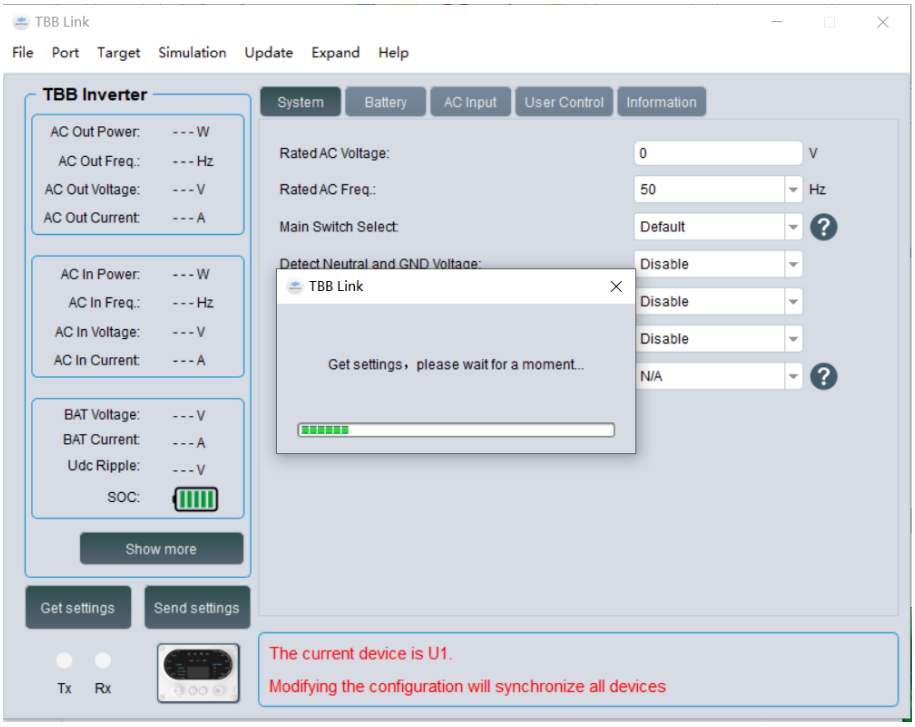


Figure 14

5. Exception handling

If an abnormal prompt box pops up during the configuration process, please check the following:

a) Make sure an inverter is turned on as required.

b) Do not turn on two or more inverters simultaneously during the configuration.

c) Make sure the communication cables are well connected.

After you make sure all is correctly set up, click the "Test Again" button to continue the configuration.