

# INSTRUCTION

for connection between

Tower and KOSTAL PLENTICORE plus/BI



## Note

This is a manual for connecting and commissioning the Tower battery and KOSTAL PLENTICORE plus/BI.

For details, please refer to the user manual of the battery and KOSTAL PLENTICORE plus/BI.

This manual is only applicable to upgraded Tower series (except Tower T21), the upgraded Tower series having new features:

1. The BDU-1.5 packaging carton will have a QR code label with the WiFi serial number.
2. The BDU has a built-in WiFi module, and the CAN communication port supports CAN/RS485 communication.
3. There is a QR code label with WiFi serial number on the right side of the BDU.

DYNESS ENERGY STORAGE SYSTEM					
	T7	T10	T14	T17	T21
Nominal Energy/kWh	7.1	10.7	14.2	17.8	21.3
Nominal Voltage/V	192	288	384	480	576
Nominal Capacity/Ah	37	37	37	37	37
Ambient Temp/°C	0-50	0-50	0-50	0-50	0-50
IP Grade	54	54	54	54	54
Protective Class	I	I	I	I	I

WWW.DYNESS-TECH.COM  
DAQIN NEW ENERGY TECH (TAIENSHI) CO., LTD

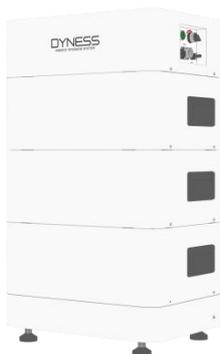


## Applicable Product type

- Dy Ness Battery Module Type:  
Tower T7 ESS unit/Tower T10 ESS unit/Tower T14 ESS unit/Tower T17 ESS unit
- Kostal Inverter Type:  
PLENTICORE plus 3.0/ PLENTICORE plus 4.2/ PLENTICORE plus 5.5/ PLENTICORE plus 7.0/ PLENTICORE plus 8.5/ PLENTICORE plus 10  
PLENTICORE BI 5.5/26 and PLENTICORE BI 10/26

## Installation Steps

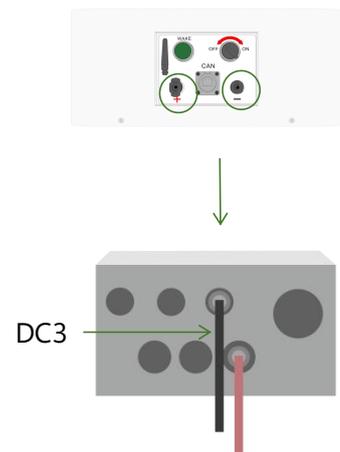
- 1 Install Tower as per user manual. Take T10 as an example



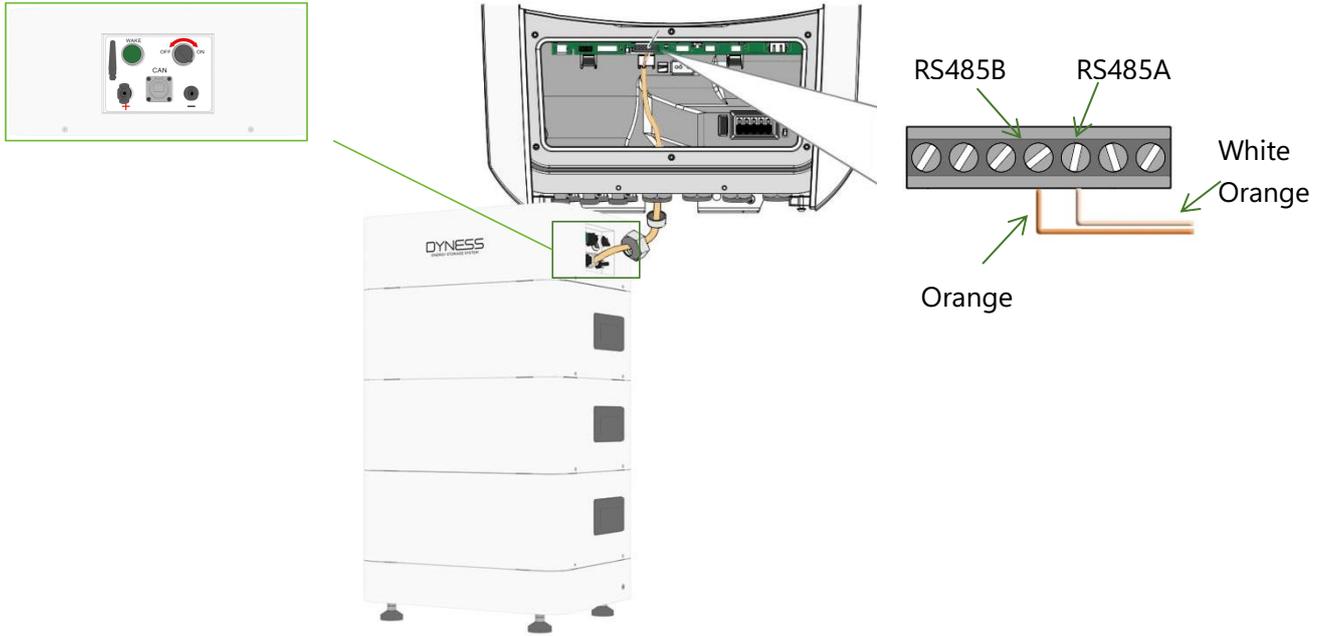
- 2 Refer to user manual to connect energy meter, grid, loads, etc. to PLENTICORE plus/BI inverter



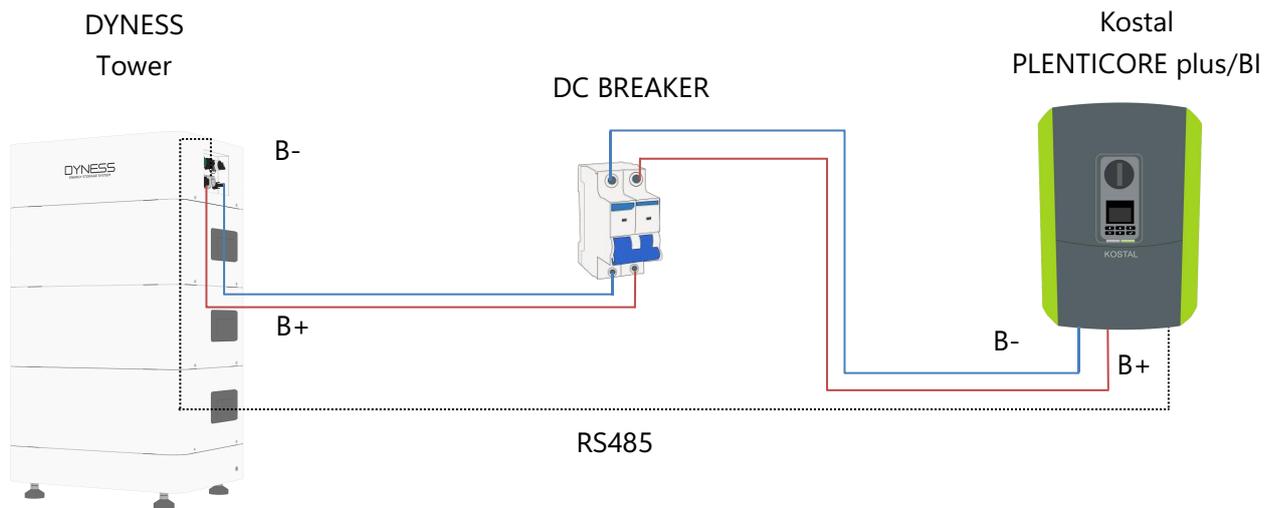
- 3 Connect the battery power cables to the inverter. Connect the DC power cables of the battery to DC input 3 on the inverter.



- 4 Connect the battery communication cable to the inverter (RJ45 plug at battery end, expose the cables at the inverter end, keep the orange and white/orange cables, remove all other cables).



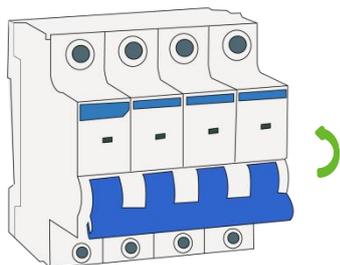
We recommend installing a circuit breaker between Tower and Kostal.



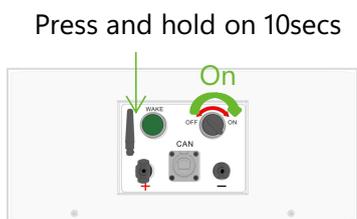
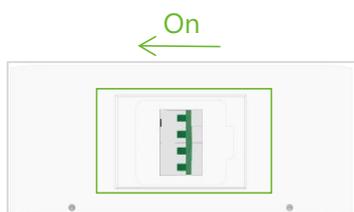
Tower and Kostal connection diagram

**5** Turn on battery and inverter

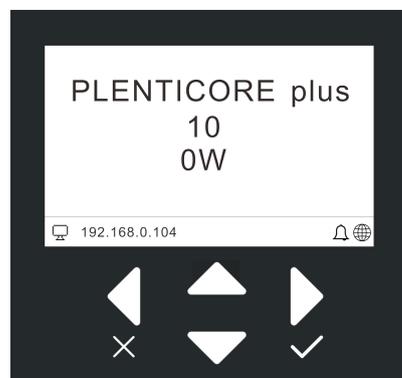
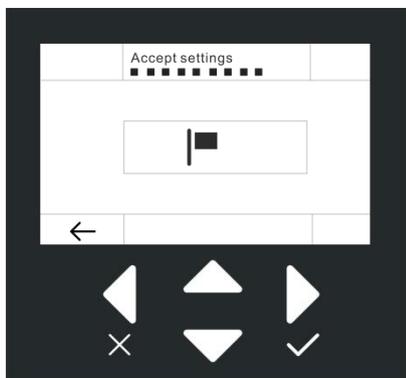
Turn on the inverter: Turn on the mains power circuit breaker to turn on Kostal. Turn the DC switch to "I" position.



Turn on the battery: Turn on the circuit breaker on BDU of Tower, turn on the ON/OFF switch, then press and hold on the "wake" button for 10s.

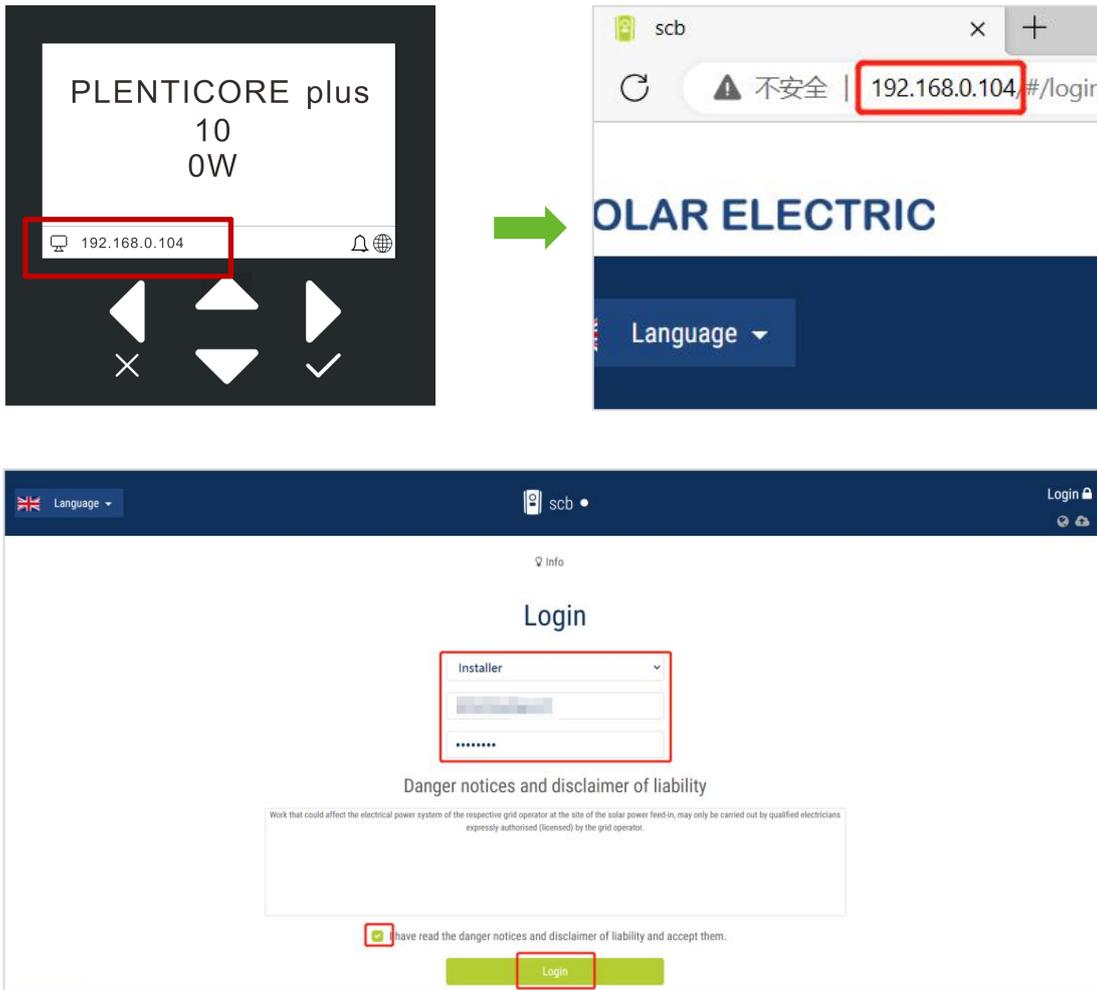


**6** Initial commissioning of the inverter: Follow the installation wizard on the display for setting the functions.

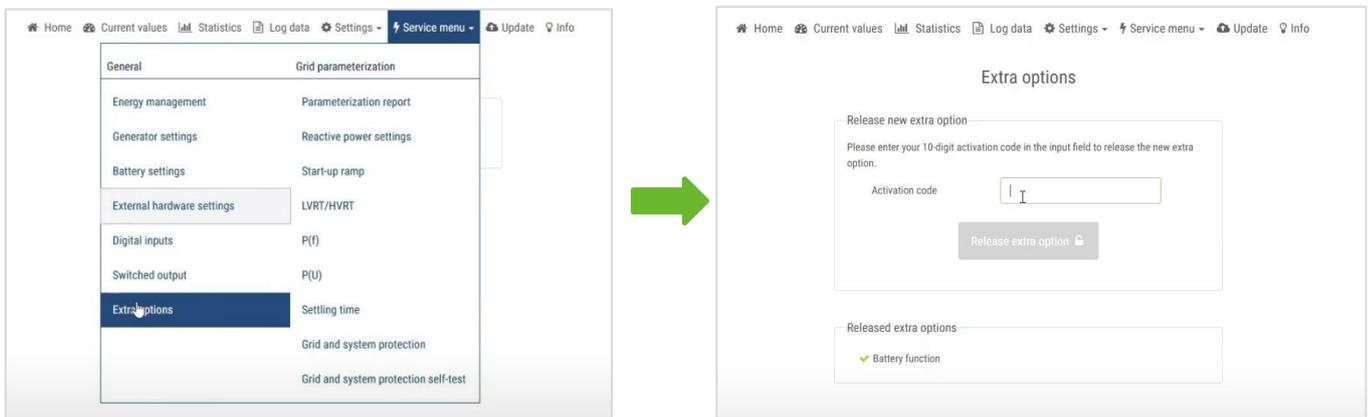


Initial commissioning is completed.

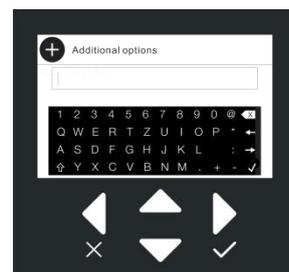
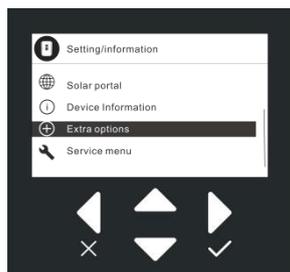
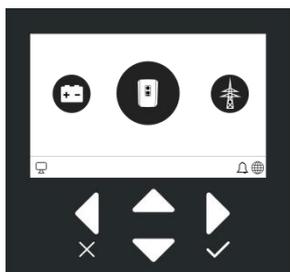
7 Enter the inverter IP in your browser and log in.



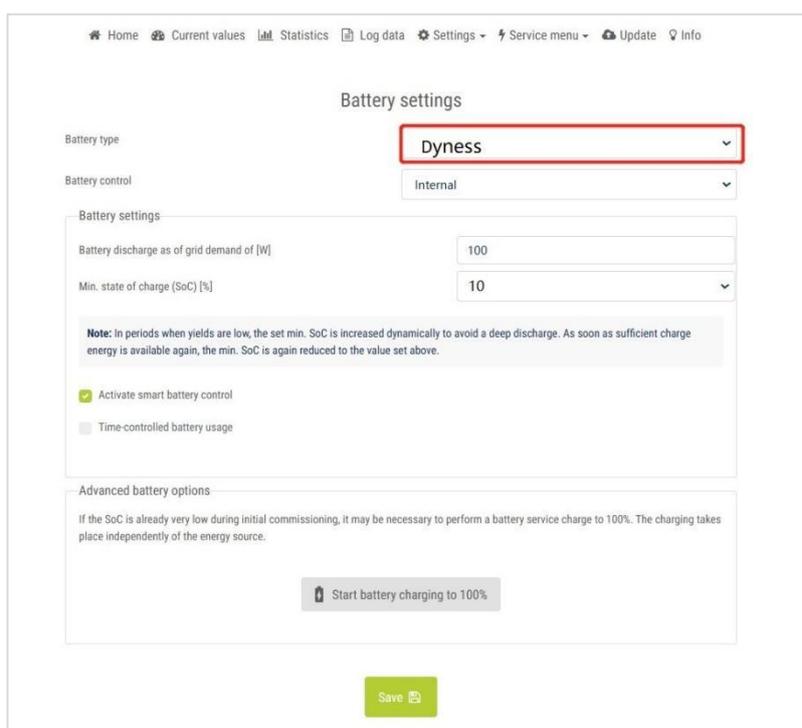
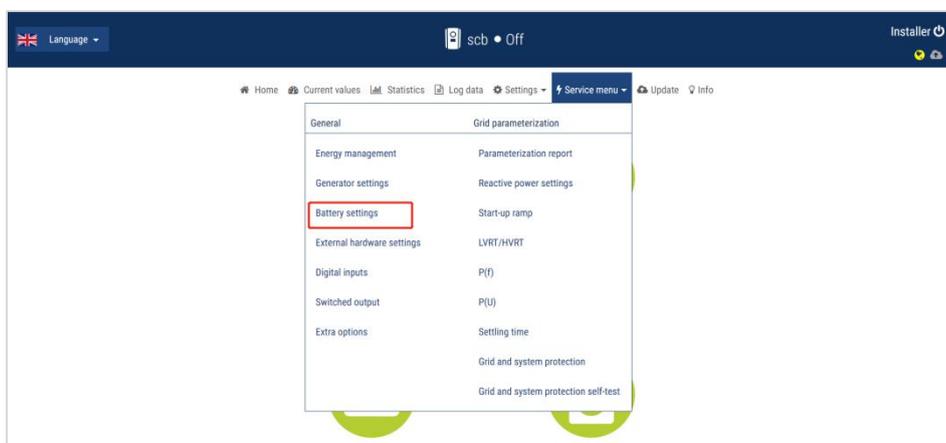
8 A battery activation code is required to release DC3 of the inverter for connecting the battery. Purchase a "Battery activation code" from KOSTAL Solar online shop and enter it in the inverter via webserver: Service menu > Extra options > Release new options > Enter code.



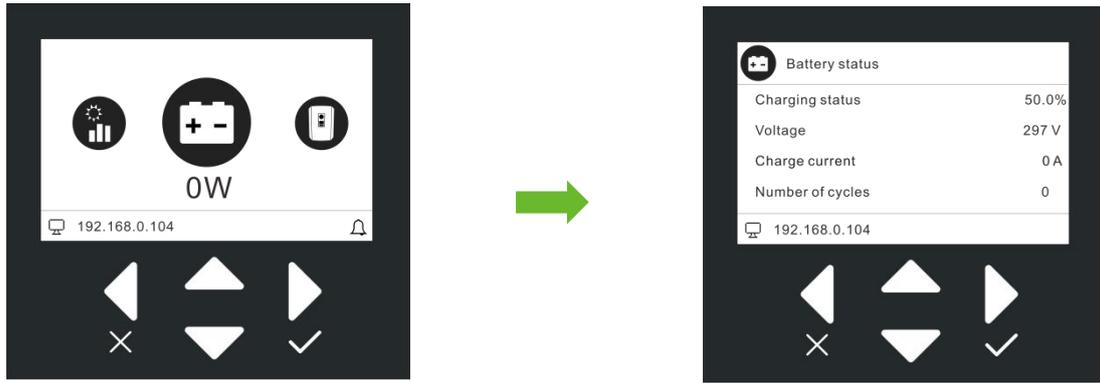
Or in the inverter menu: Settings > Extra options > Additional options > Release options > Activate options > Enter code.



9 Select battery type and parameters in the service menu and save the settings.



- 10 Check the battery information on the display. If the battery status is normal, then the commission was successful.





Discover Your Nature



Official Website



Digital version access

Dyness Digital Energy Technology Co., LTD.

[www.dyness.com](http://www.dyness.com)