

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.



Applicable Product type

- Dyness 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



©Dyness reserves the copyright of this document.



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. \bigcirc (\bigcirc) \bigcirc 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. ←On Press and hold on 10secs On 6 Initial commissioning of the inverter: Follow the installation wizard on the display for setting the functions. Language ■ □ □ □ □ □ □ □ □ □ Installation Willkommen! Welcome! Bienverue! Cesiky Espanol Francais Italiano \rightarrow \rightarrow Accept settings PLENTICORE plus 10 0W <u>□</u> 192.168.0.104 Δ⊕ Initial commissioning is completed.

PLE	NTICORE plus 10 0W 0.104 Δ⊕	Scb × + C ▲ 不安全 192.168.0.104, #/login OLAR ELECTRIC Language ▼
Language -	9	scb • Login 🔒
		2 Info
	r.	ogin
	Installer	v
	and the second sec	4
	Danger notices and	d disclaimer of liability
	Work that could affect the electrical power system of the respective grid operat expressly authorised	or at the site of the solar power feed-in, may only be carried out by qualified electricians (incensed) by the grid operator.
	Phave read the danner notices ar	nd disclaimer of liability and accent them
		Login
A battery activation Purchase a "Battery vebserver: Service	code is required to release DC3 activation code" from KOSTAL S menu > Extra options > Release	of the inverter for connecting the battery. Solar online shop and enter it in the inverter via new options > Enter code.
	Log data 🗘 Settings - 🦩 Service menu - 🕰 Update 🛛 Info	of Home 🚓 Current values 📠 Statistics 🗟 Log data 🌣 Settings - ∮ Service menu - 🕰 Update
Home 🚳 Current values 🕍 Statistics 🖹		Extra options
Home 🏟 Current values 🕍 Statistics 🗟 General Energy management	Parameterization report	
Home da Current values Lad Statistics General Energy management Generator settings	Parameterization report Reactive power settings	Release new extra option Please enter your 10-digit activation code in the input field to release the new extra
Home da Current values lad Statistics General Energy management Generator settings Battery settings	Parameterization report Reactive power settings Start-up ramp	Release new extra option Please enter your 10-digit activation code in the input field to release the new extra option. Activation code
Home da Current values lad Statistics General Energy management Generator settings Battery settings External hardware settings	Parameterization report Reactive power settings Start-up ramp LVRT/HVRT	Release new extra option Please enter your 10 digit activation code in the input field to release the new extra option. Activation code
Home da Current values lad Statistics General Energy management Generator settings Battery settings External hardware settings Digital inputs Switched output	Parameterization report Reactive power settings Start-up ramp LVRT/HVRT P(f) P(U)	Release new extra option Please enter your 10 digit activation code in the input field to release the new extra option. Activation code
Home & Current values Lat Statistics Concernation Concernation Concernation Concernation Concernation Concernation Statistics Concernation Concernation Statistics Concernation Concernatio	Parameterization report Reactive power settings Start-up ramp LVRT/HVRT P(f) P(U) Settling time	Release new extra option Please enter your 10 digit activation code in the input field to release the new extra option. Activation code
Home & Current values Lat Statistics Concernation Current values Lat Statistics Concernation Concernatio Concernation Concernation Conc	Parameterization report Reactive power settings Start-up ramp LVRT/HVRT P(f) P(U) Settling time Grid and system protection	Release new extra option Please enter your 10 digit activation code in the input field to release the new extra option. Activation code



Or in the inverter menu: Settings > Extra options > Additional options > Release options > Activate options > Enter code. Setting/information Additional options + Additional options Release option Solar portal • (i) Device Information (+) Extra options Servi ٩ Δ∰ Select battery type and parameters in the service menu and save the settings. Installer 😃 scb • Off 🗮 Language 🗸 🗰 Home 🚳 Current values 🕍 Statistics 🖻 Log data 🌣 Settings 🗸 🕈 Service menu 🗸 🕰 Update 🖓 Info General Grid parameterization Energy management Parameterization report Generator settings Reactive power settings Start-up ramp Battery settings LVRT/HVRT External hardware settings Digital inputs P(f) Switched output P(U) Settling time Extra options Grid and system protection Grid and system protection self-test 🕷 Home 🚳 Current values 📶 Statistics 🖹 Log data 🌣 Settings 🗕 🕈 Service menu 🗸 🚳 Update 🛛 Info Battery settings Battery type Dyness ~ Battery control Internal Battery settings Battery discharge as of grid demand of [W] 100 Min. state of charge (SoC) [%] 10 Note: In periods when yields are low, the set min. SoC is increased dynamically to avoid a deep discharge. As soon as sufficient charge energy is available again, the min. SoC is again reduced to the value set above. Activate smart battery control Time-controlled battery usage Advanced battery options If the SoC is already very low during initial commissioning, it may be necessary to perform a battery service charge to 100%. The charging takes place independently of the energy source. Start battery charging to 100%





Discover Your Nature





Official Website

Digital version access

Dyness Digital Energy Technology Co., LTD.

www.dyness.com