

ET series + Lynx F plus solutions

(SA-E-20220110-001)

Background:

GoodWe provides 2 types of three phase hybrid inverters, ET 5-10kW and ET 15-30kW. Besides the power range difference, the battery connection is also different. Right now, Goodwe has a brand new high voltage battery—Lynx Home F Plus+. How to make the connection between inverter and battery?

Solutions:

Step 1. Pick up battery power control unit (PCU).

Some key information of ET series inverters are listed below. Choose the right PCU of Lynx Home F Plus based on different battery input of inverter. If battery input current is 25A, please choose PCU of 10 AWG. If battery input current is 50A, please choose PCU of 6 AWG.

	ET 5-10 kW	ET 15-20 kW	ET 25-30 kW
Battery input current (A)	25	50	50
Battery input No.	1	1	2
Lynx home F plus battery	PCU 10AWG	PCU 6AWG	PCU 6AWG

Step 2. Choose battery module numbers.

The recommended battery module number is that inverter can work with full load. A recommended list is shown below. This is calculated for Lynx Home F plus with a charge/discharge current of 25A for one tower, 50A for two towers.

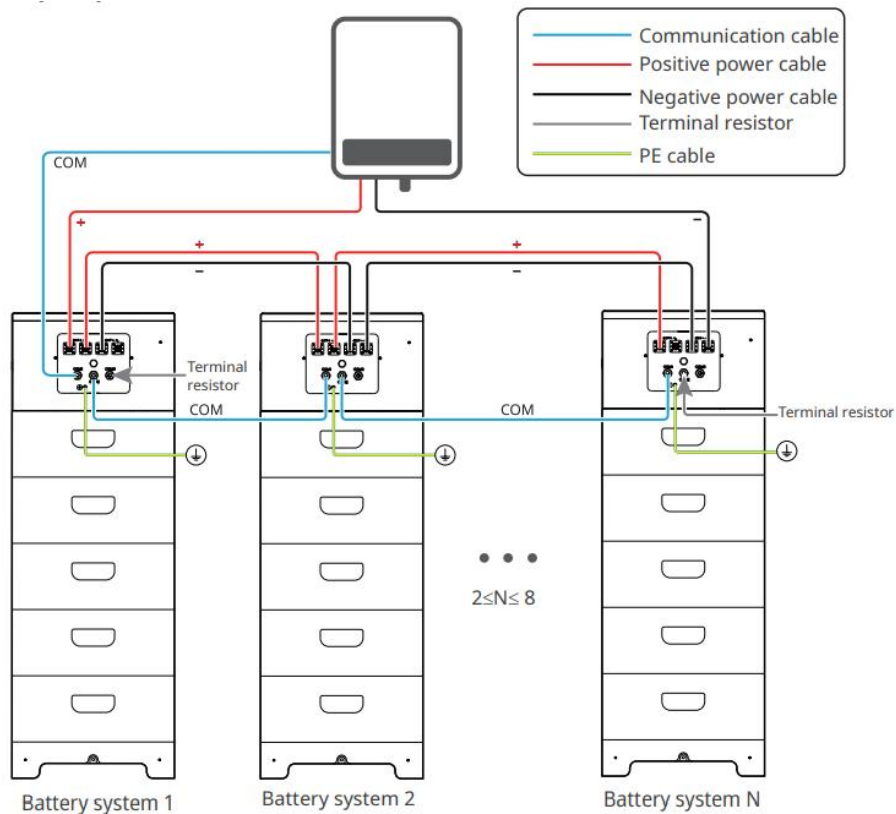
Recommend battery module No. when inverter with full load

	ET 5-10 kW	ET 15 kW	ET 20 kW	ET 25 kW		ET 30 kW
Lynx home F plus battery PCU (A)	10 AWG	6 AWG	6 AWG	6 AWG		6 AWG
Inverter Battery input No.	1	1	1	2		2
Lynx home F plus battery PCU No.	1	2	2	2, 1 for each battery input	4, 2 for each battery input	4, 2 for each battery input
Lynx home F plus battery module No.	Inverter power/2.56 ~ 5	3~5 for each tower	4~5 for each tower	5 for each tower	3~5 for each tower	3~5 for each tower

Step 3. Connect battery system to the inverter.

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(N≤8)

Install the terminal resistor to the COM3 port of Battery system 1, which is connected to the inverter directly.
 Install the terminal resistor to the COM2 port of Battery system N, which is the last battery system of the battery cluster system
 Connect all power cables and communication cables.

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