GOODWE

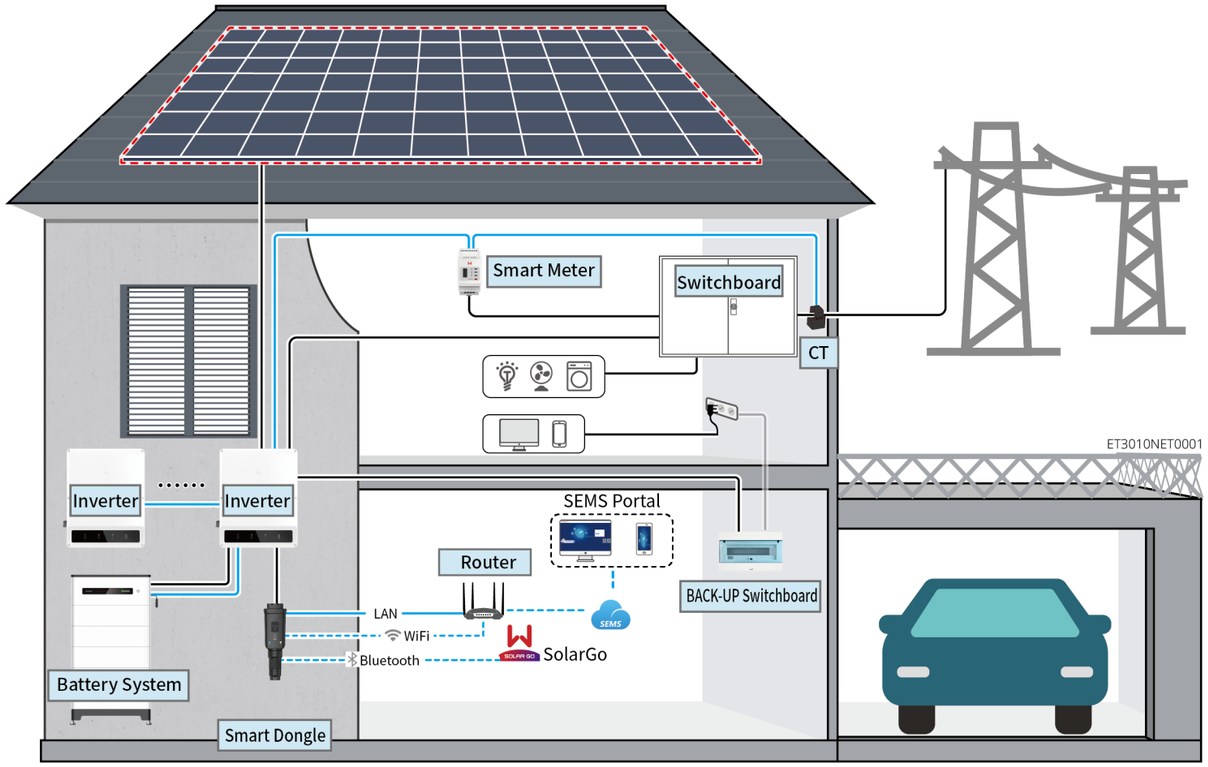
ET 15.0-30.0kW Residential Smart Inverter Solutions Guide

V1.1-2024-08-19

⚠ WARNING

The information in this quick guide is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions in the manual are for guidance only.

01 Networking



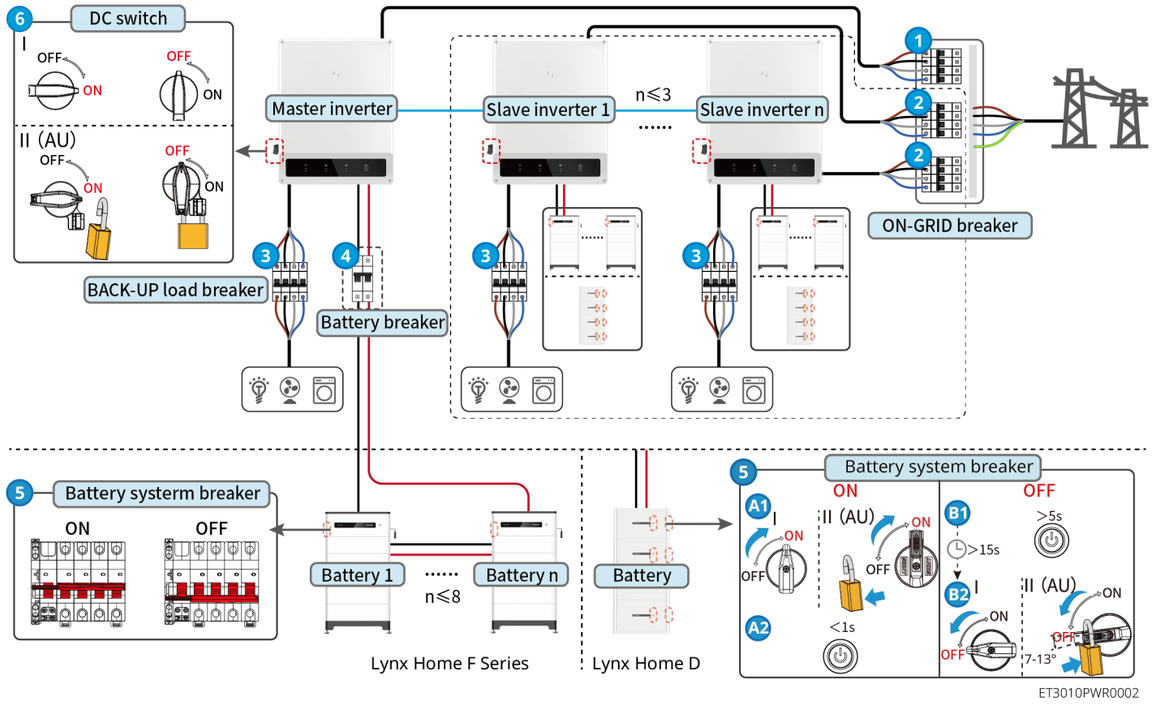
Device	Model			Description
Inverter	GW15K-ET GW20K-ET GW25K-ET GW29.9K-ET GW30K-ET			A maximum of 4 inverters can be connected in a parallel system. Inverter firmware requirements for parallel connections: • Consistent firmware version • ARM version: 08(401) or above • DSP version: 07(7068) or above
Battery system	Lynx Home F G2 LX F12.8-H-20 LX F16.0-H-20 LX F19.2-H-20 LX F22.4-H-20 LX F25.6-H-20 LX F28.8-H-20	Lynx Home F Lynx Home F Plus+ LX F6.6-H LX F9.8-H LX F13.1-H LX F16.4-H	Lynx Home D LX D5.0-10	• A maximum of 8 battery systems can be clustered in a system. • Do not mix connect battery systems of different versions.

Device	Model	Description

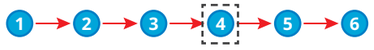
Smart Meter	• GM3000
	• GM330
		• GM3000: GM3000 and the CT, which cannot be replaced, are included in the inverter package. CT ratio: 120A/40mA.
		• CM330: order the CT for GM330 from GoodWe or other suppliers. CT ratio: nA/5A.
		  • nA: CT primary input current, n ranges from 200 to 5000.
		  • 5A: CT Secondary input current.

Smart Dongle	• WiFi/LAN Kit-20 • Wi-Fi Kit • Ezlink3000	• Use WiFi/LAN Kit-20 or Wi-Fi kit for a single inverter. Upgrade the firmware of the inverter before replacing the Wi-Fi kit with a WiFi/LAN Kit-20 dongle. • In parallel scenarios, the EzLink 3000 must be connected to the master inverter. Do not connect any communication module to the slave inverters. The firmware version of EzLink should be 04 or above.

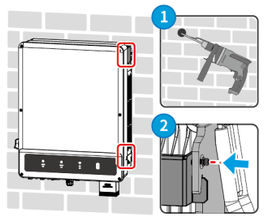
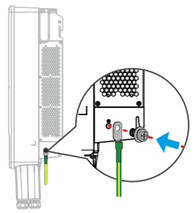
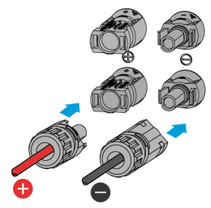
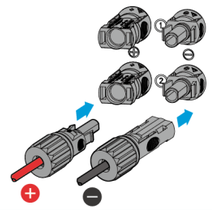
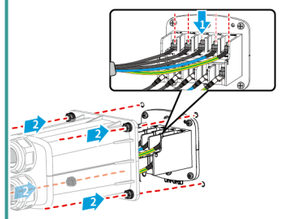
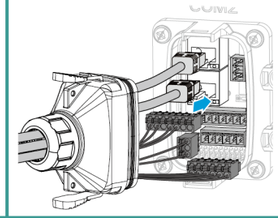
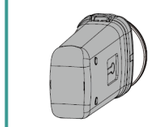
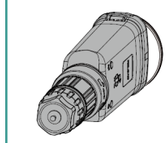
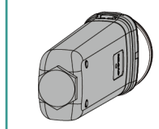
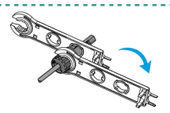
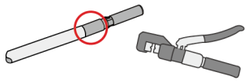
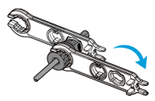
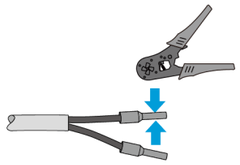
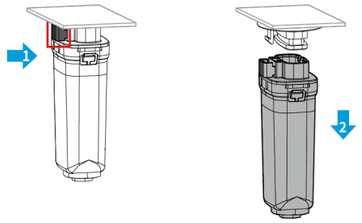
02 Power On/Off

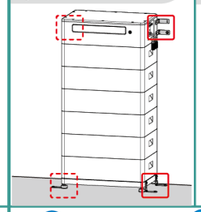
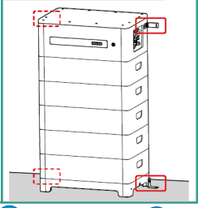
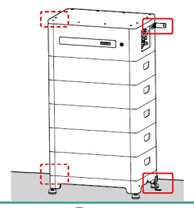
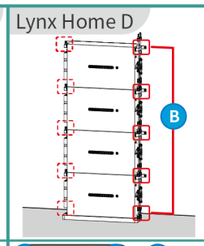
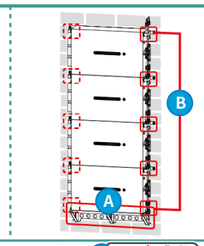
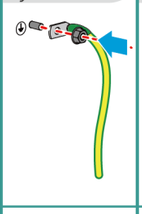
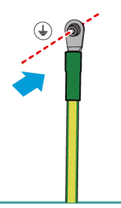
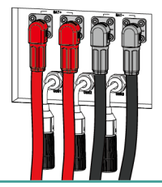
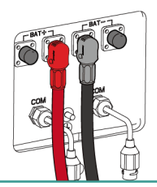
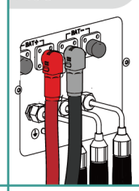
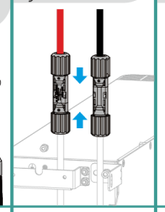
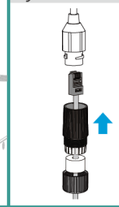
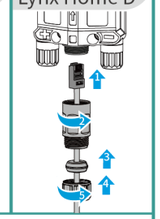
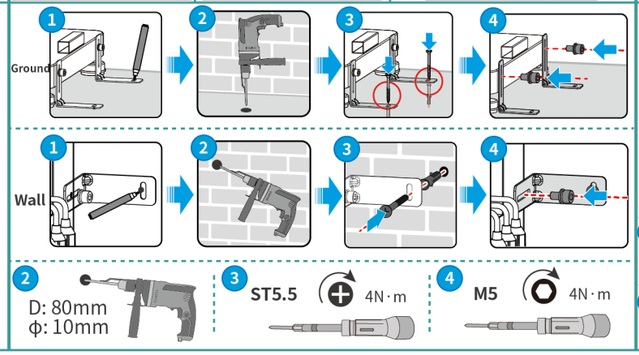
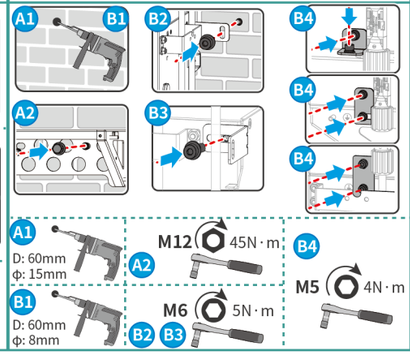
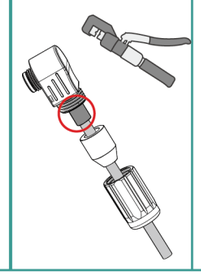
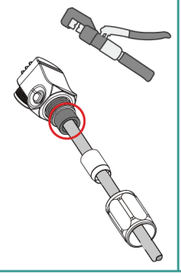
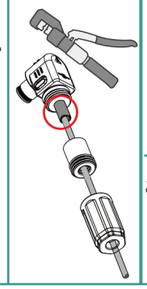
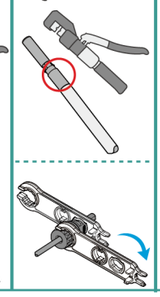
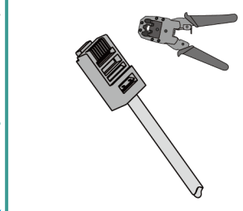


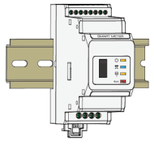
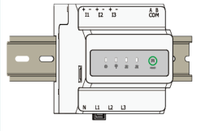
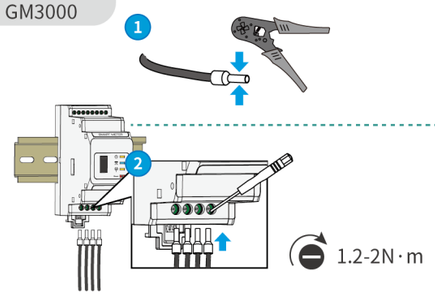
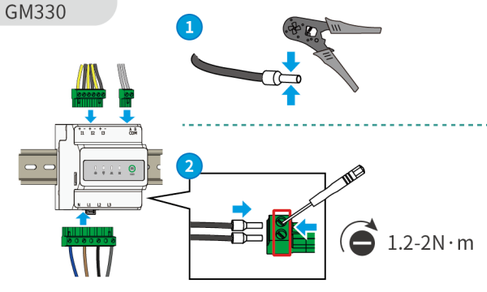
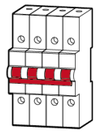
Power on/off



④ : Install or not based on local laws and regulations.

Steps	❶ Installation	❷ PE	❸ PV	❹ Battery	❺ AC	❻ COM	❼ Communication module		
Inverter							Wi-Fi Kit 	WiFi/LAN Kit-20 	Ezlink3000 
Tools	❶ D: 80mm ϕ: 8mm ❷ M5 1.2~2N·m	M5 1.2~2N·m	Recommend: PV-CZM-61100 	Recommend: YQK-70  	❶ M5 2~3N·m ❷ M6 3~4N·m				

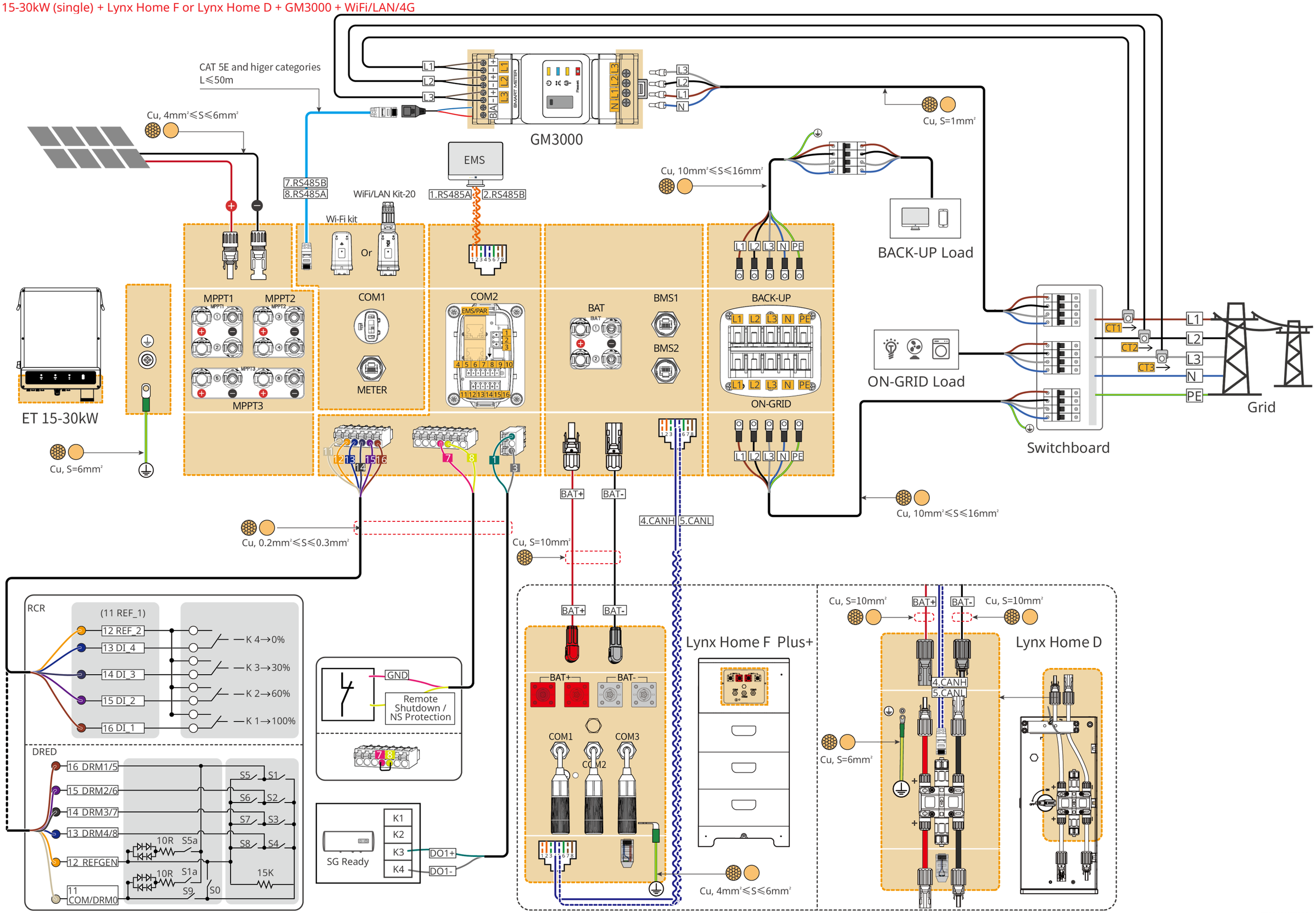
Steps	❶ Installation					❷ PE		❸ Battery				❹ COM	
Battery	Lynx Home F G2 	Lynx Home F 	Lynx Home F Plus+ 	Lynx Home D 		Lynx Home F 	Lynx Home D 	Lynx Home F G2 	Lynx Home F 	Lynx Home F Plus+ 	Lynx Home D 	Lynx Home F 	Lynx Home D 
Tools						M6 6-7N·m	M5 4N·m	Recommend: YQK-70 	Recommend: YQK-70 	Recommend: YQK-70 	Recommend: YQK-70 	

Steps	❶ Installation		❷ Cable Connections		❸ Power	❹ Commissioning
Smart meter	GM3000 	GM330 	GM3000 	GM330 	 AC breaker	SolarGo APP SEMS Portal APP or SEMS Portal WEB

ET3010INT0003

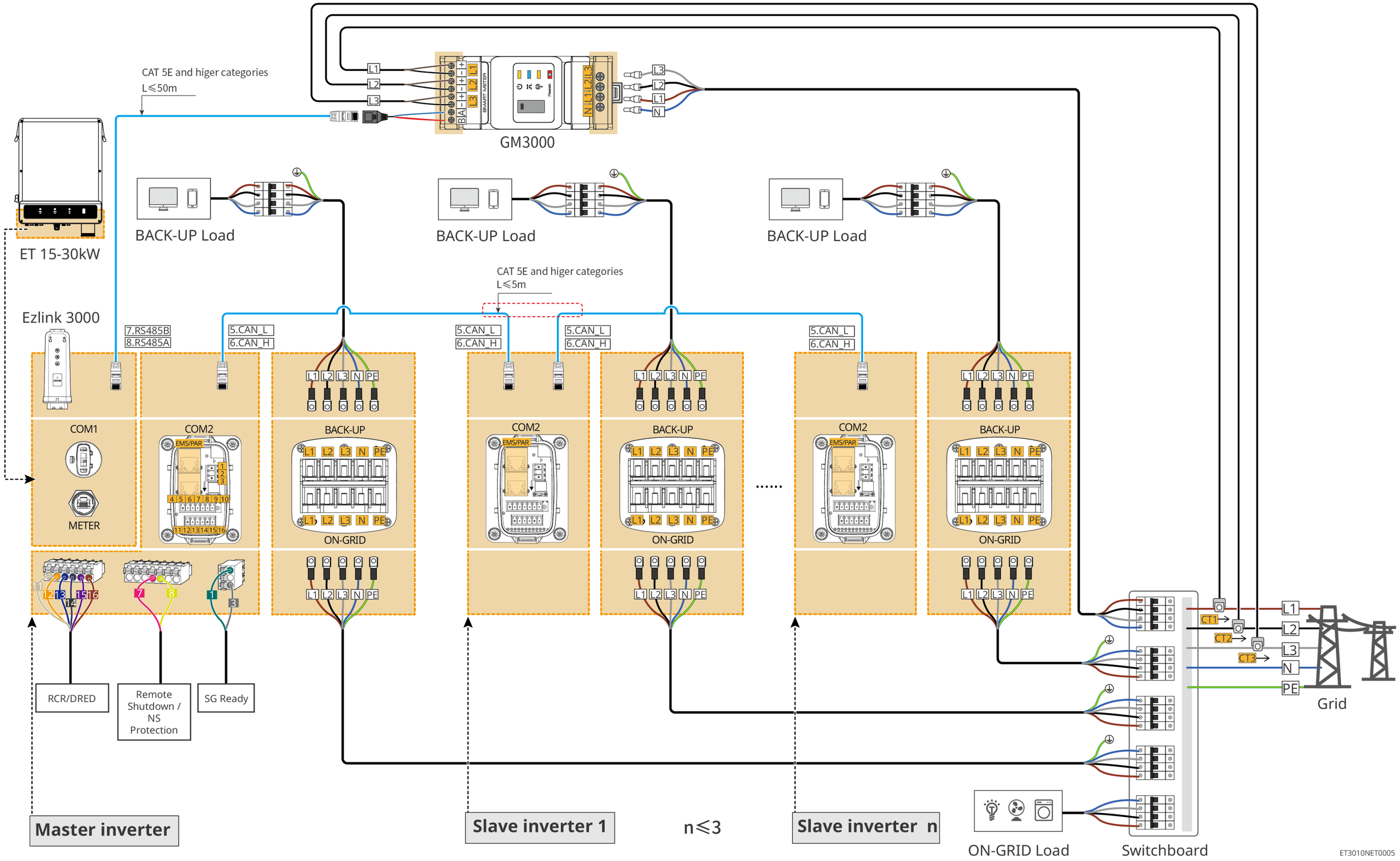
04 Wiring Diagram

ET 15-30kW (single) + Lynx Home F or Lynx Home D + GM3000 + WiFi/LAN/4G

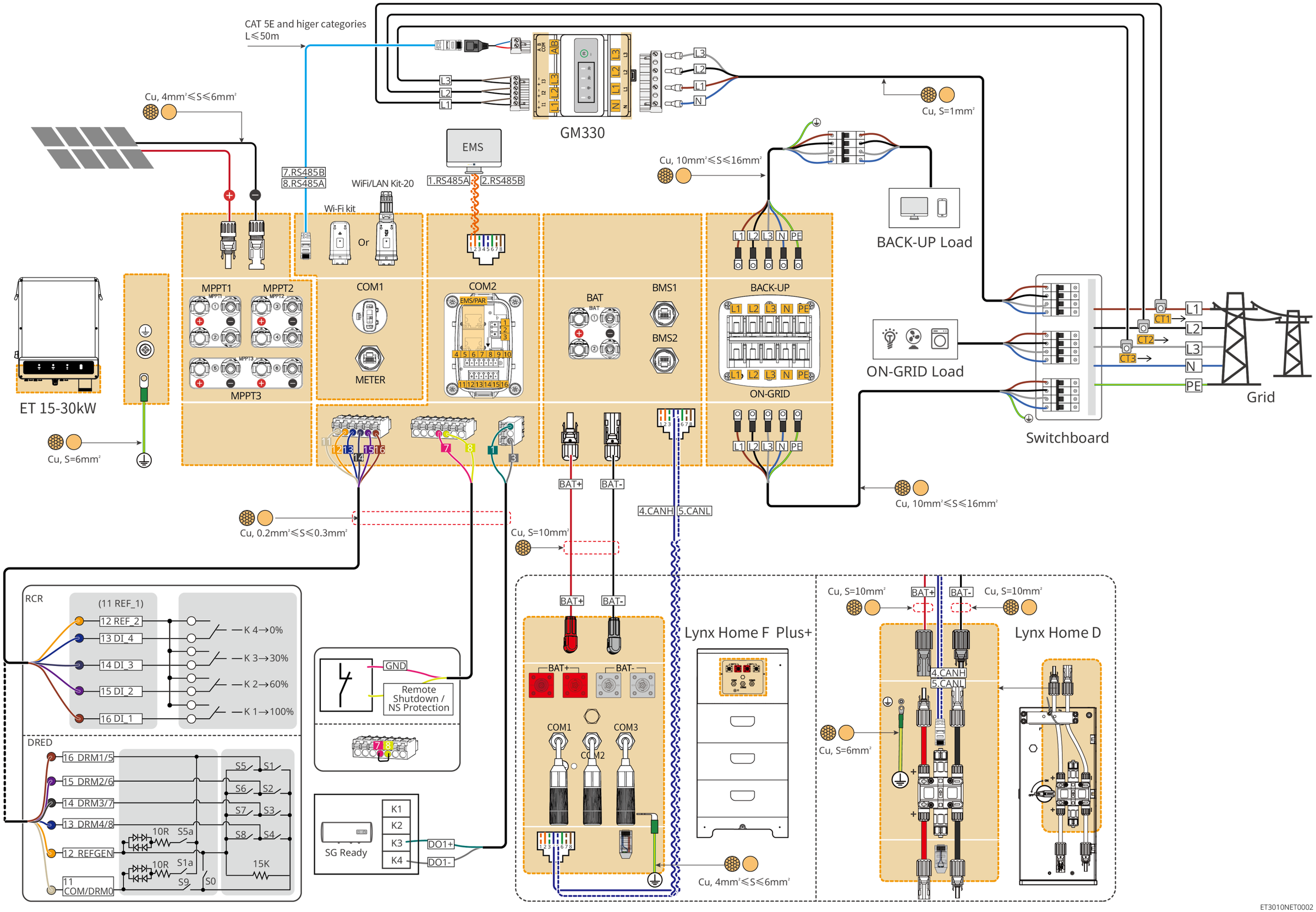


ET3010NET0003

ET 15-30kW (parallel connected) + GM3000 + Ezlink3000

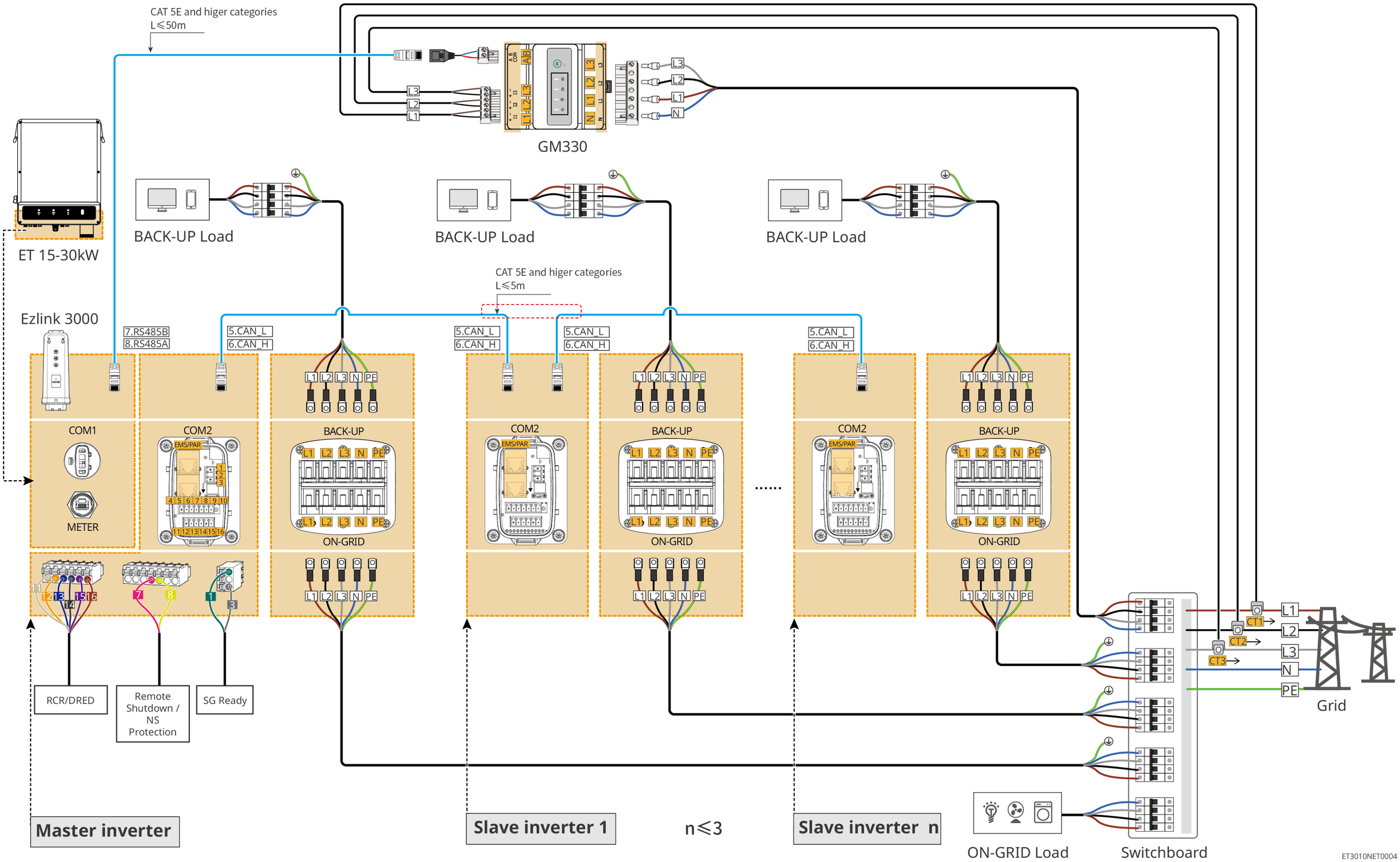


ET 15-30kW (single) + Lynx Home F or Lynx Home D + GM330 + WiFi/LAN/4G

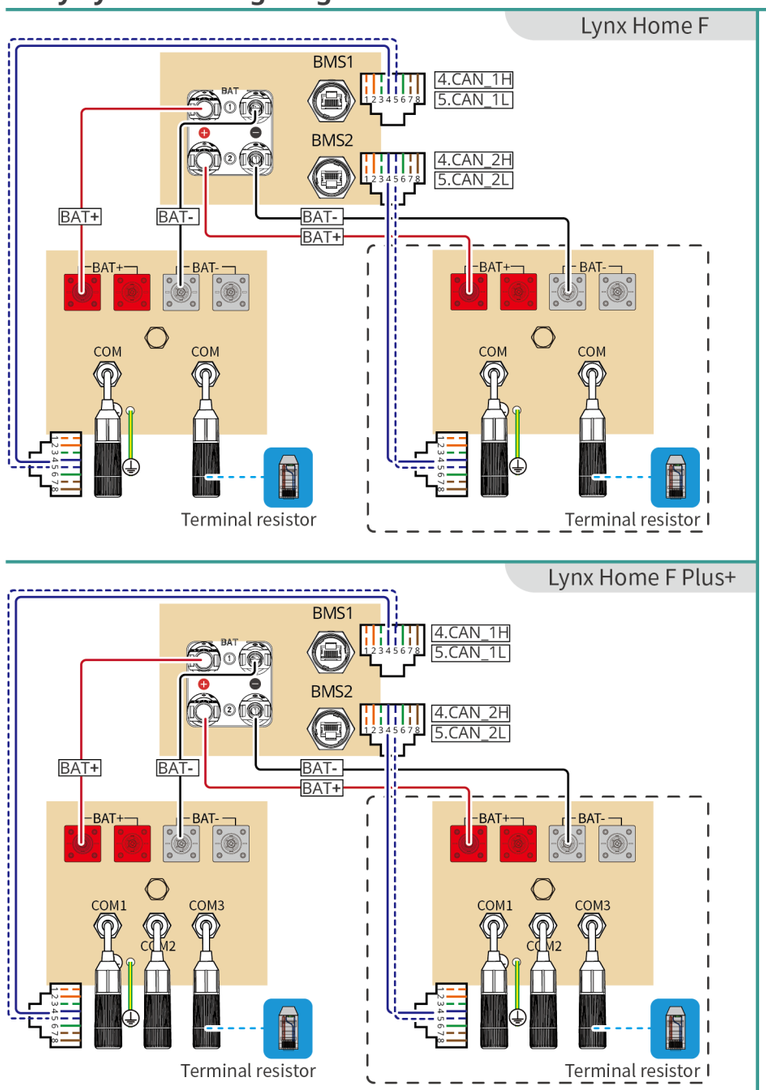


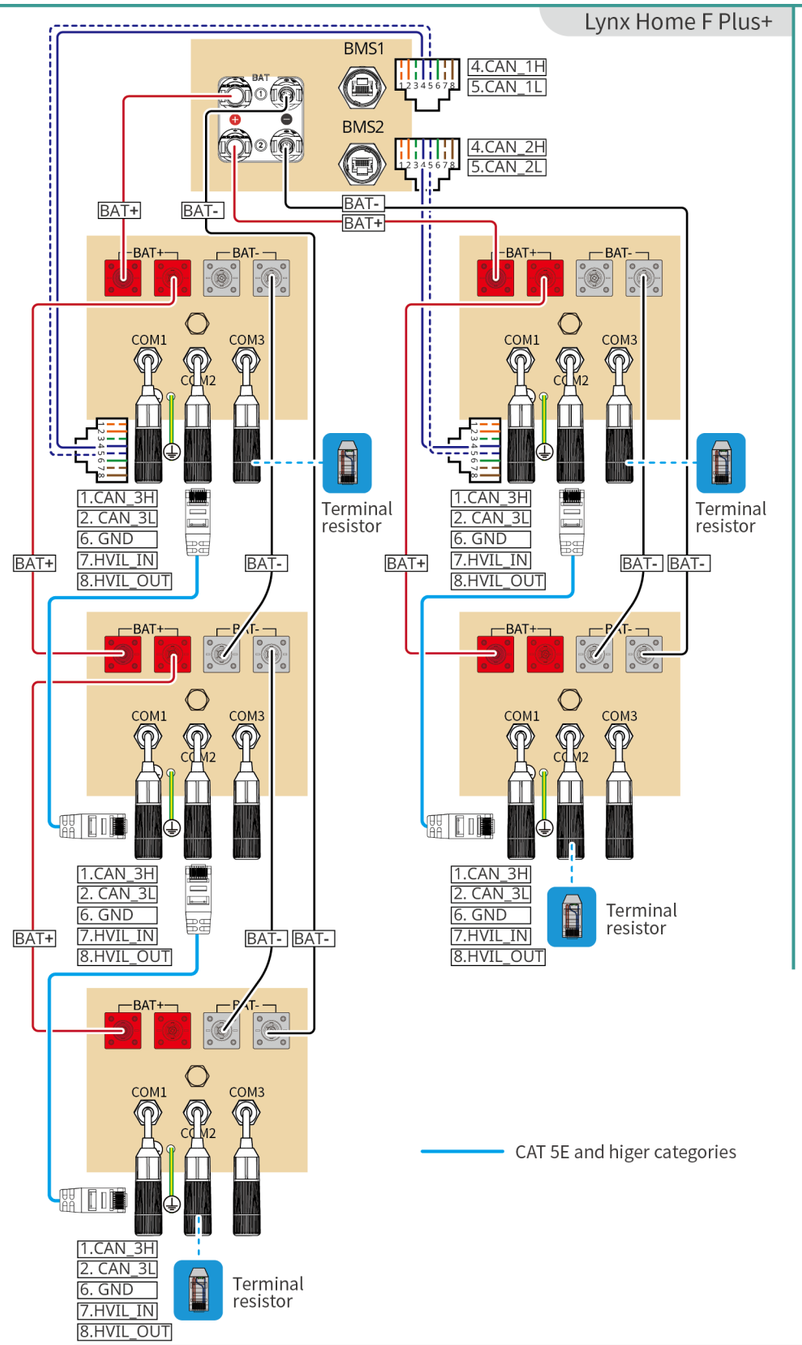
ET3010NET0002

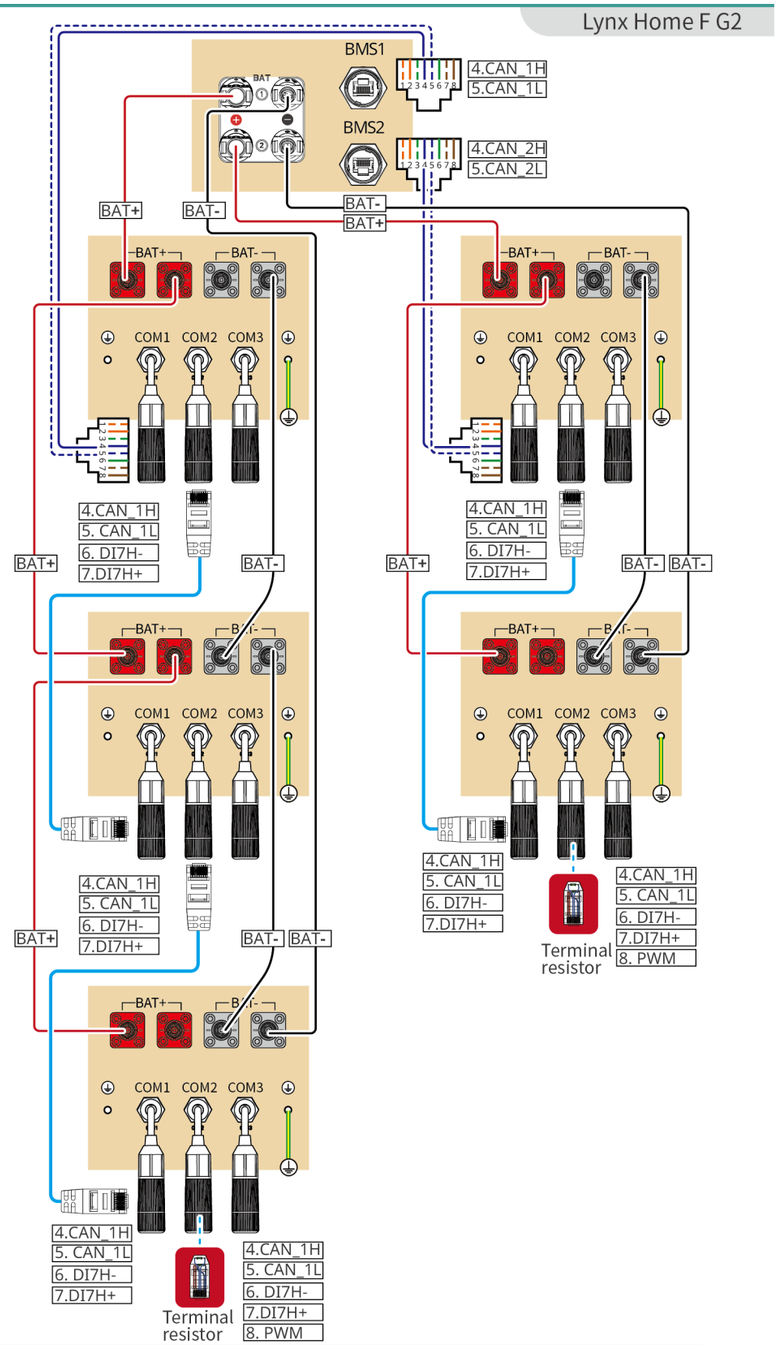
ET 15-30kW (parallel connected) + GM330 + Ezlink3000



Battery System Wiring Diagram



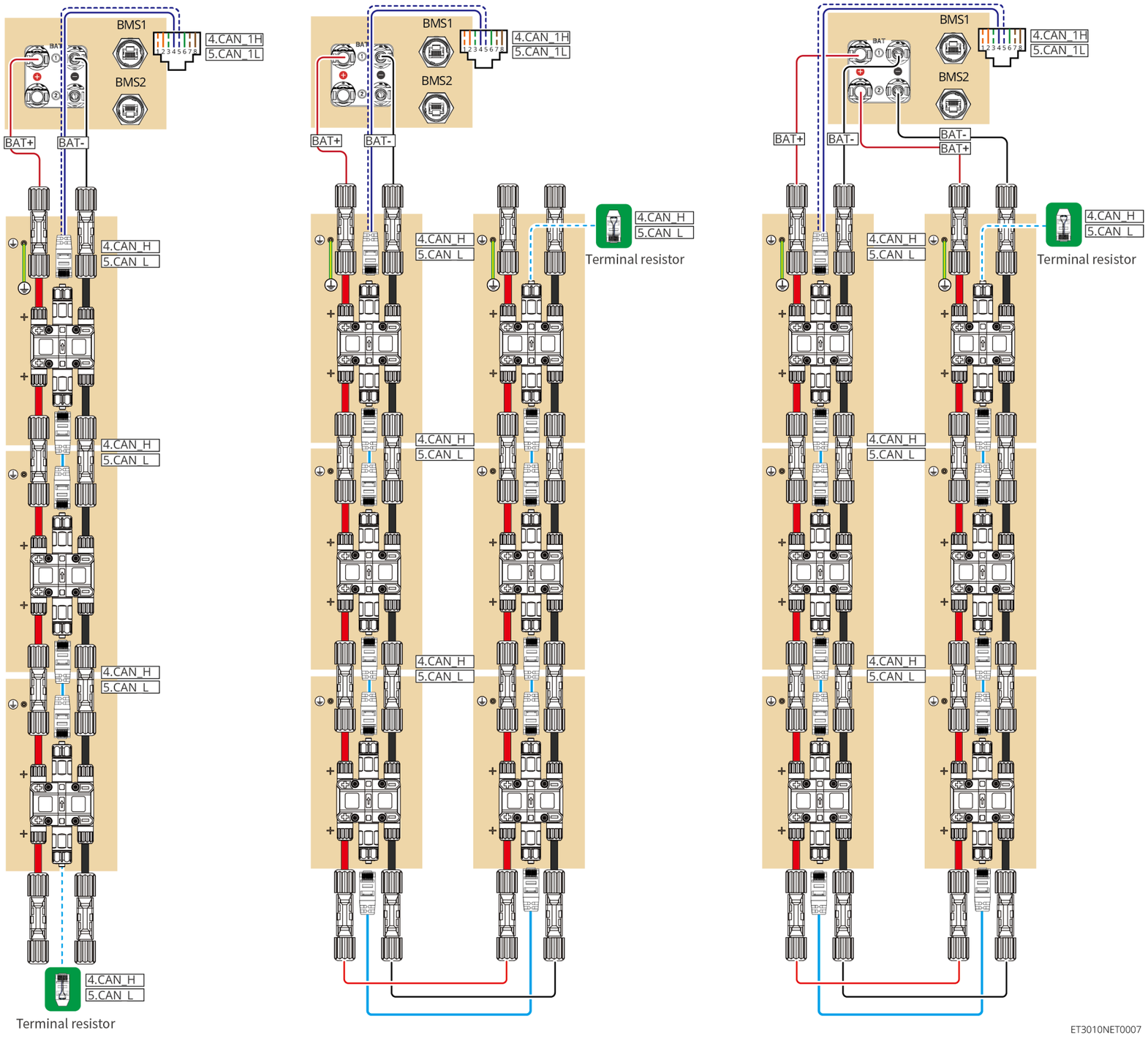




Battery System Quantity	Quantity Of Battery Systems Connected To BAT1	Quantity Of Battery Systems Connected To BAT2	Battery Quantity	Quantity Of Battery Systems Connected To BAT1	Quantity Of Battery Systems Connected To BAT2
1	1	0	2	1	1
3	2	1	4	2	2
5	3	2	6	3	3
7	4	3	8	4	4
N	(N+1)/2	(N-1)/2	M	M/2	M/2
15	8	7	16	8	8

ET3010NET0006

Lynx Home D


BMS1
BMS2
4.CAN_1H
5.CAN_1L
BAT+
BAT-
4.CAN_H
5.CAN_L
Terminal resistor
ET3010NET0007

05 Equipment Commissioning

SolarGo app

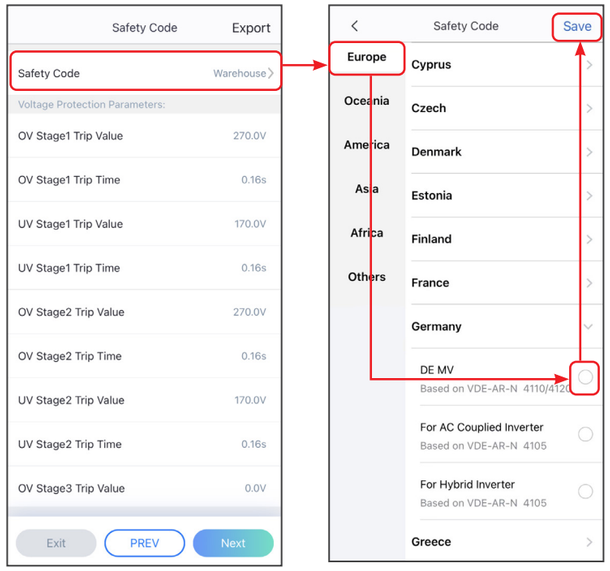
SEMS Portal app

In parallel scenarios, the software version of SolarGo app should be 5.3.0 or above.
Follow the prompts to connect the device.

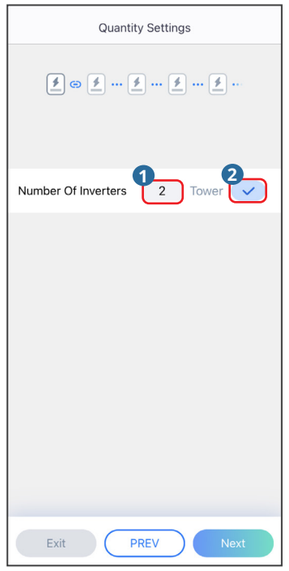
Quick Settings

Tap **Home** > **Settings** > **Quick Settings** to complete quick settings step by step.
Installer password: goodwe2010

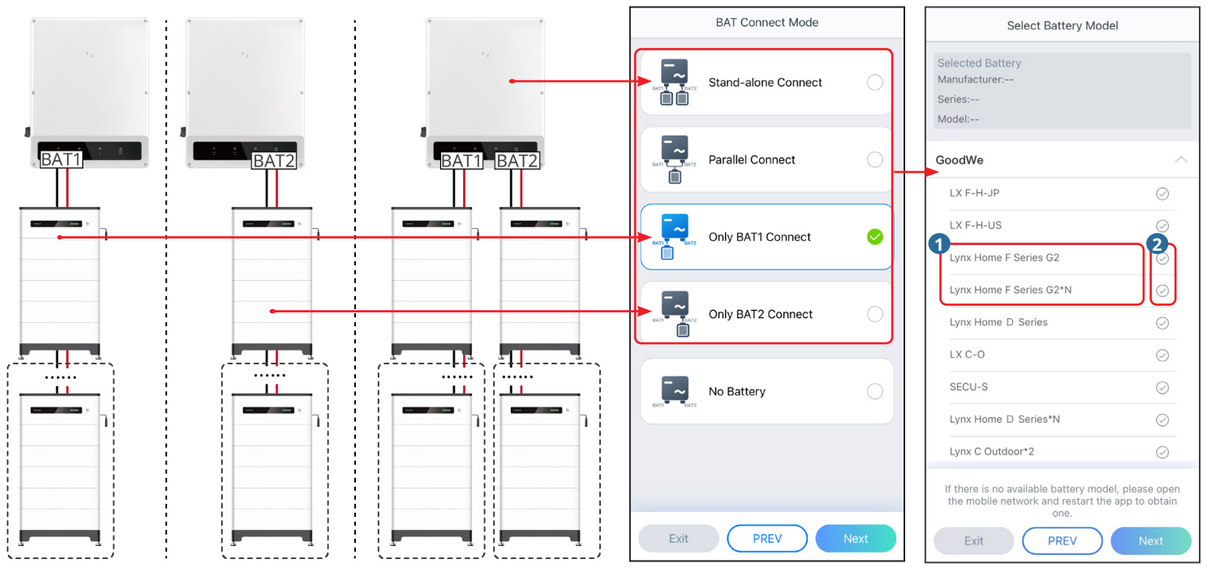
Setting the Safety Code



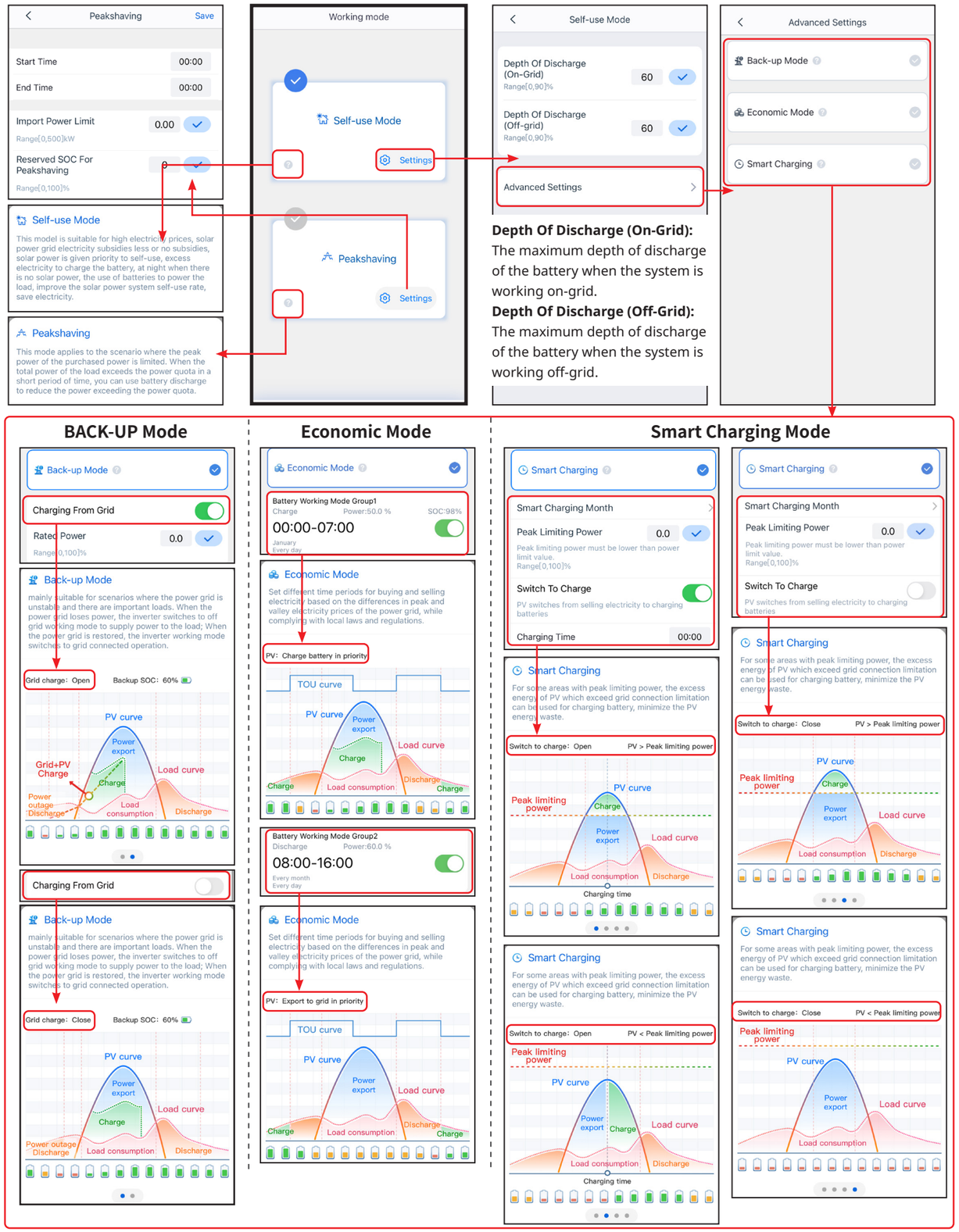
Setting Inverter Quantity (Only For Parallel Connections)



Setting the BAT Connect Mode



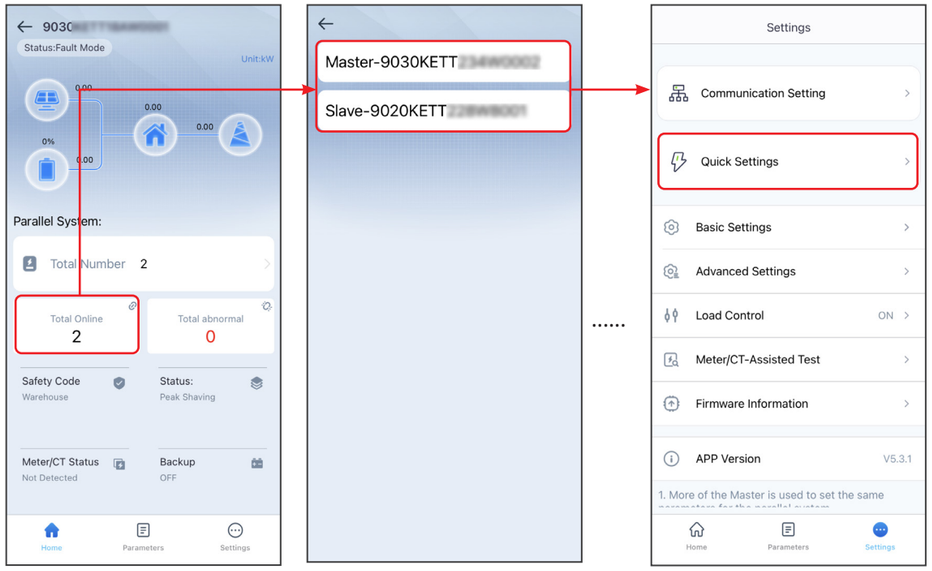
Setting the Working Mode



Depth Of Discharge (On-Grid): The maximum depth of discharge of the battery when the system is working on-grid.
Depth Of Discharge (Off-Grid): The maximum depth of discharge of the battery when the system is working off-grid.

Setting Batteries Of Each Inverters (Only For Parallel Connections)

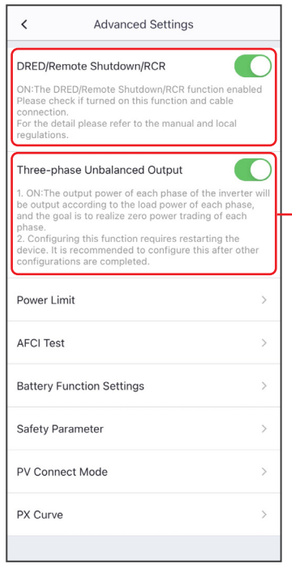
Follow the prompts to set the battery model and connection mode of each inverter.



Setting the Advanced Parameters

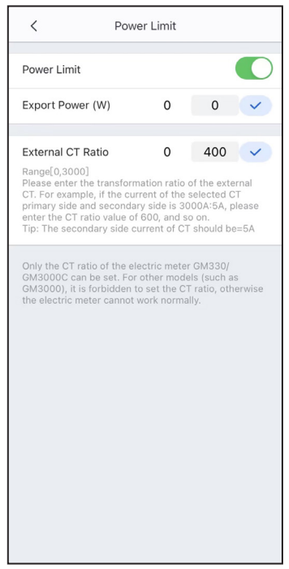
Tap **Home** > **Settings** > **Advanced Settings** to set the following functions.

Setting DRED/Remote Shutdown/RCR or Three-phase Unbalanced Output Function (Optional)



Enable **Three-phase Unbalanced Output** when the utility grid company adopts phase separate billing.

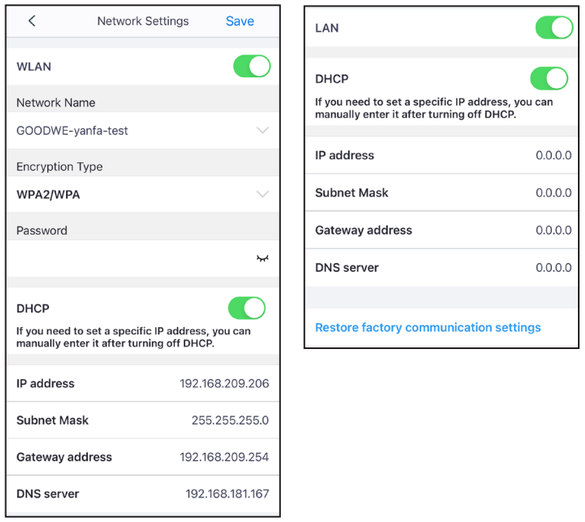
Setting the Power Limit Function



Configuring the Network

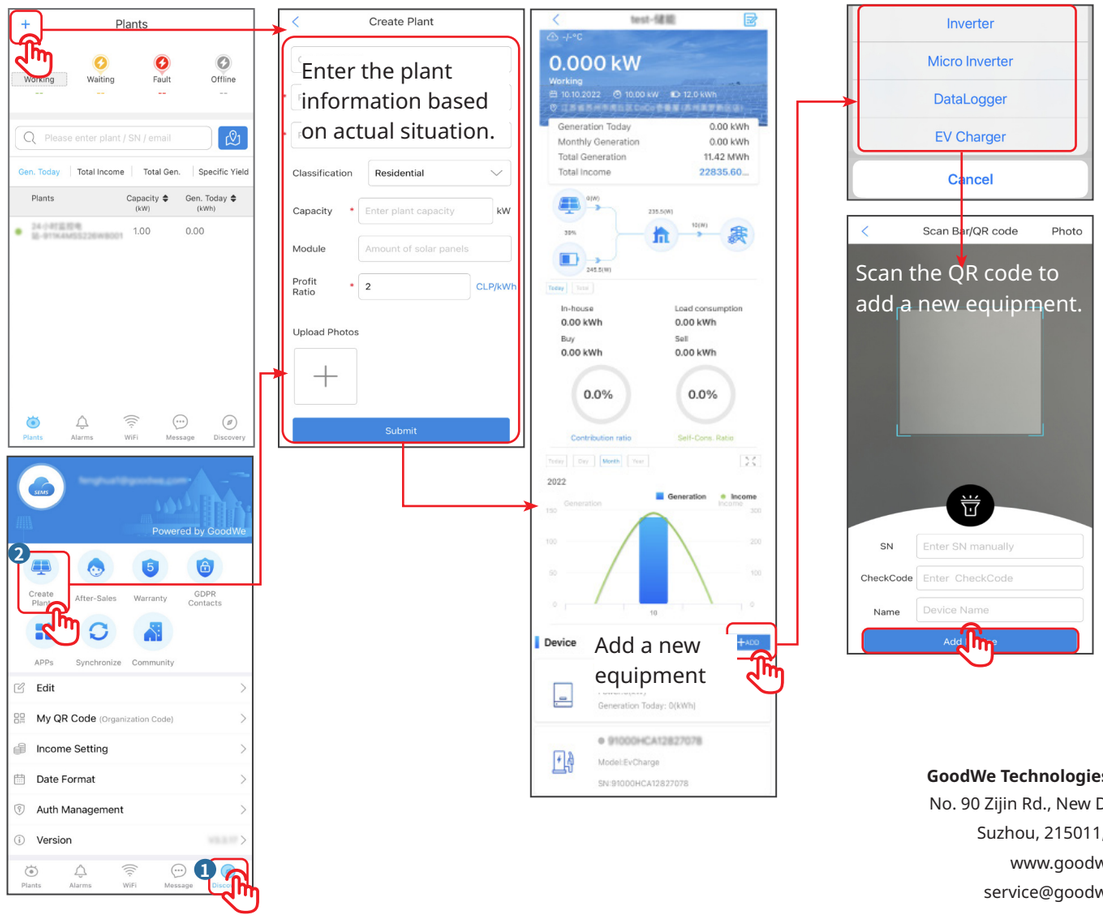
Tap **Home** > **Settings** > **Communication Setting** to set network parameters.

WiFi/LAN Kit-20 or Wi-Fi Kit or Ezlink3000



Creating a Power Plant

Create power plants and add equipments via SEMS Portal app.



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service@goodwe.com