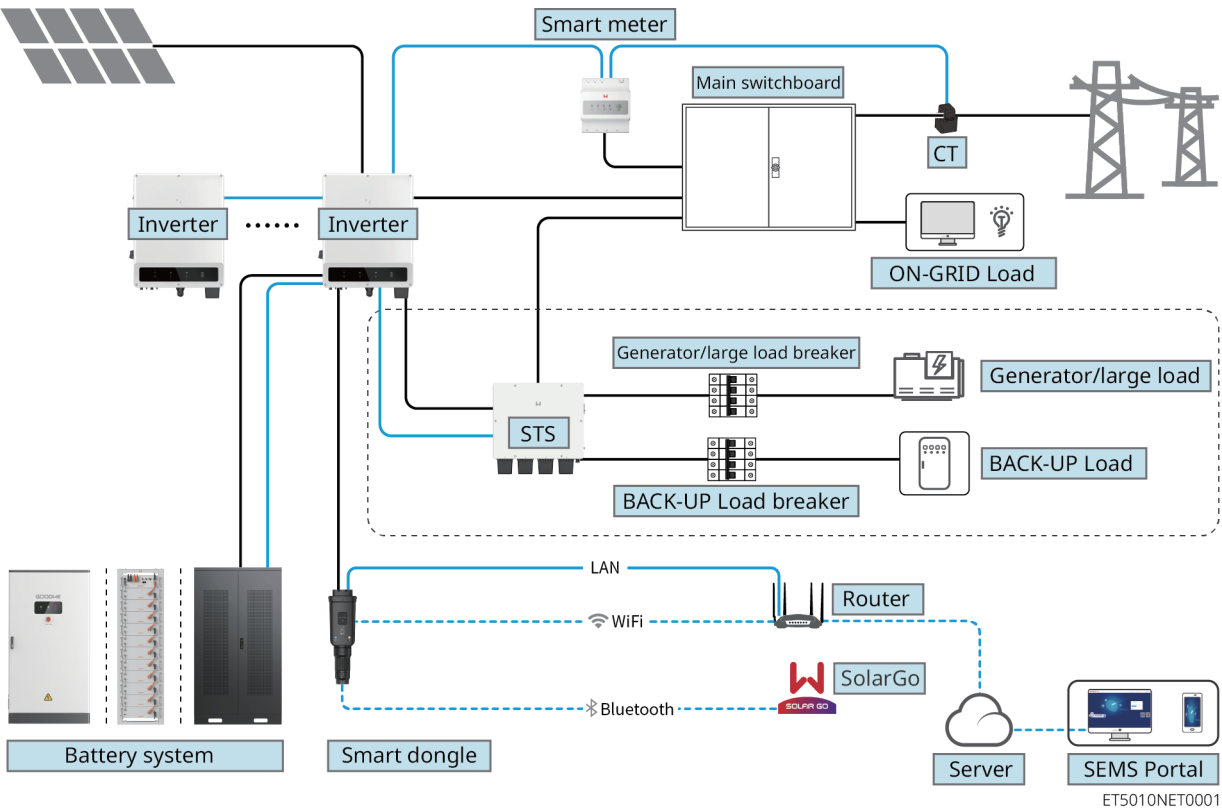


WARNING

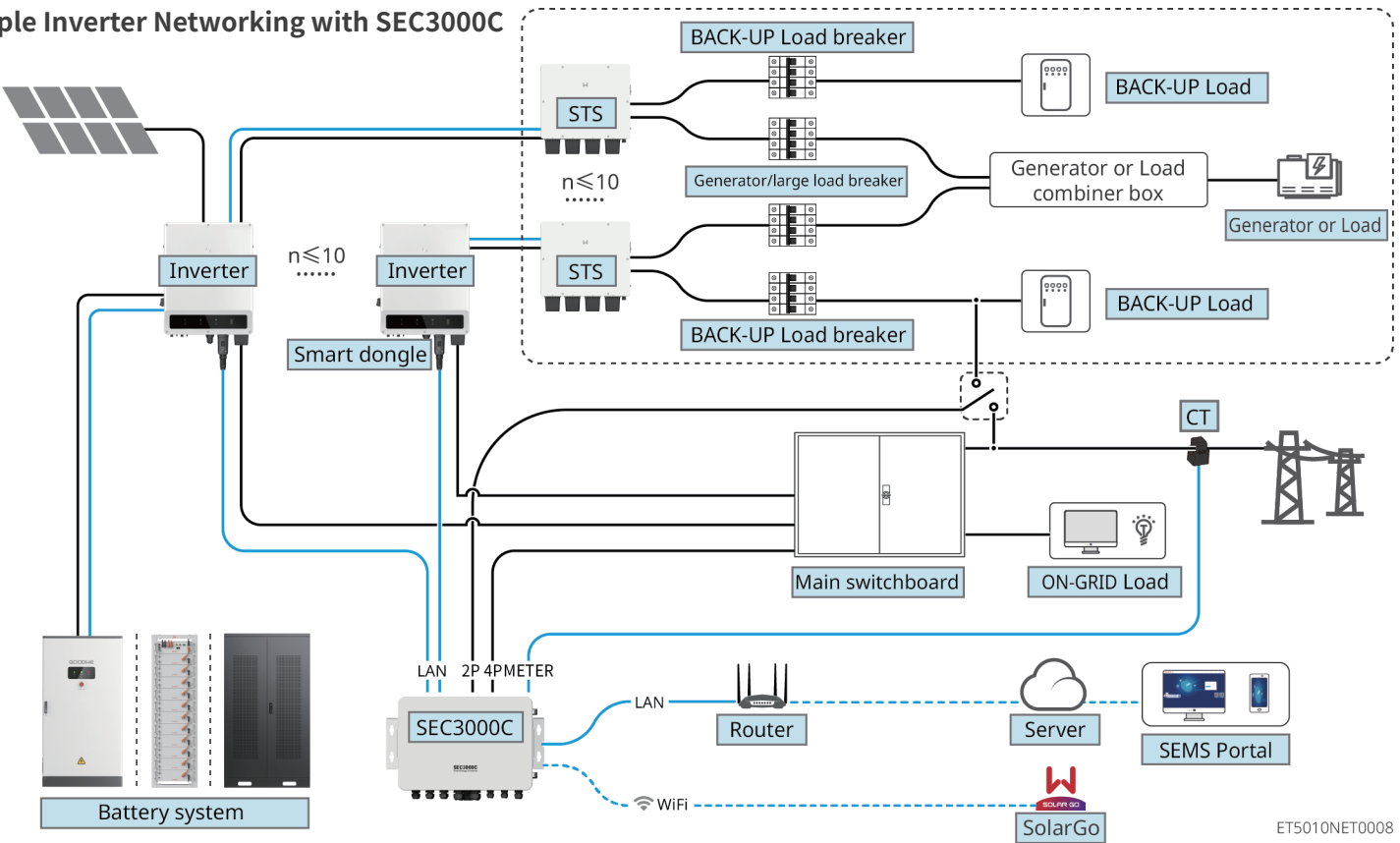
The information in this user manual is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions in the manual are for guidance only.

01 Networking

Single Inverter/Multiple Inverter Networking with Ezlink3000



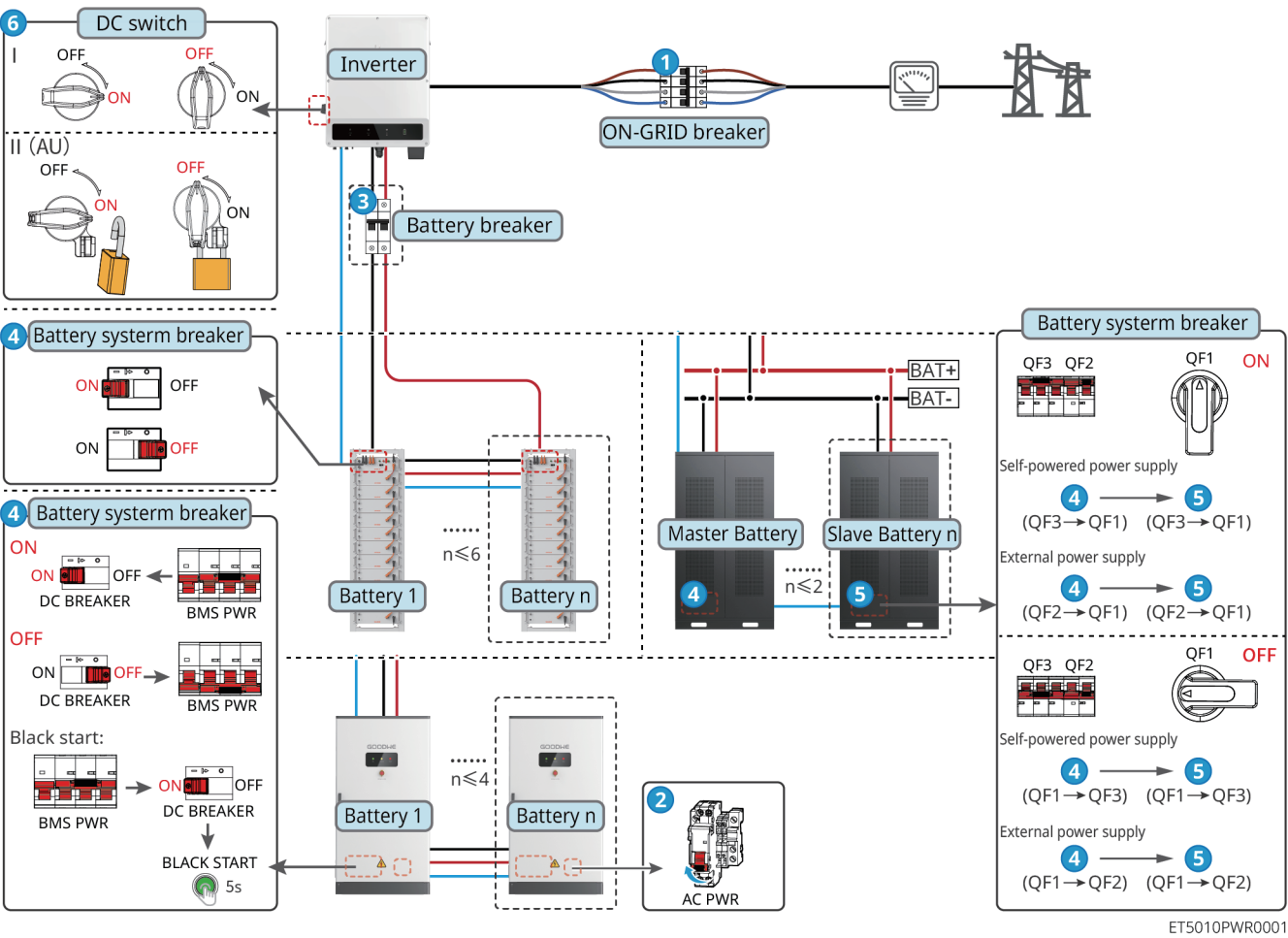
Multiple Inverter Networking with SEC3000C



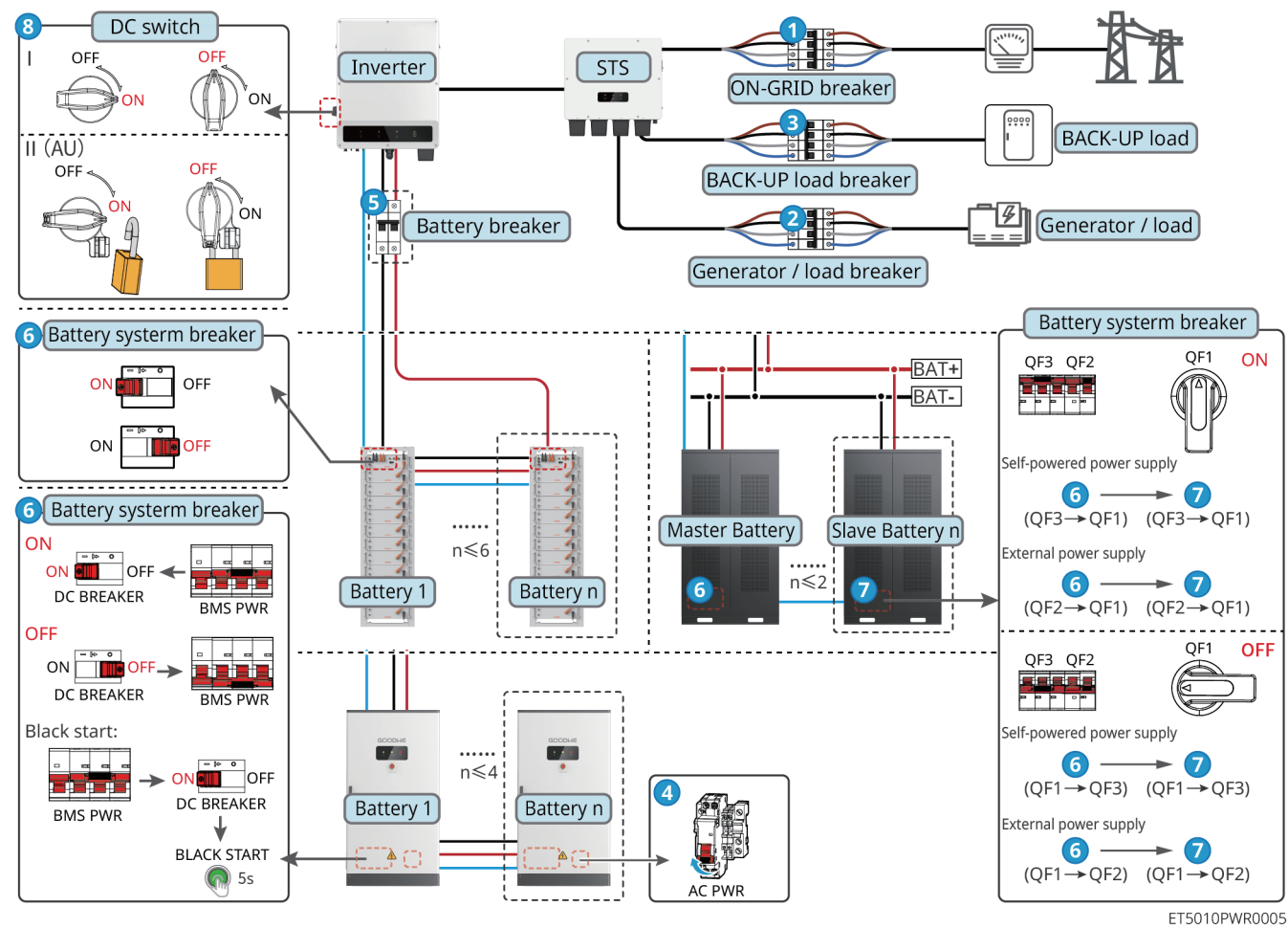
Product Type	Model	Explanation
Inverter	GW40K-ET-10 GW50K-ET-10	Inverter firmware requirements for parallel connections: <ul style="list-style-type: none"><li>Consistent firmware version</li><li>Inverters paralleling with Ezlink3000<ul style="list-style-type: none"><li>ARM version: 10.420 or above</li><li>DSP version: 01.203 or above</li></ul></li><li>Inverters paralleling with SEC3000C<ul style="list-style-type: none"><li>ARM version: 11.450 or above</li><li>DSP version: 3.300 or above</li></ul></li></ul>
STS	STS200-80-10	If the energy storage system needs to use BACK-UP function, it needs to work with STS. STS version: 02.203 or above.
Battery system	LX C101-10 LX C120-10 LX C138-10 LX C156-10	<ul style="list-style-type: none"><li>A maximum of 3 battery systems can be connected in parallel in a system.</li><li>Do not mix connect battery systems of different versions.</li></ul>
	GW51.2-BAT-I-G10 GW56.3-BAT-I-G10	<ul style="list-style-type: none"><li>A maximum of 6 battery systems can be connected in parallel in a system.</li><li>Battery systems of different models cannot be connected in parallel together.</li></ul>
	GW102.4-BAT-AC-G10 GW112.6-BAT-AC-G10	<ul style="list-style-type: none"><li>A maximum of 4 battery systems can be connected in parallel in a system.</li><li>Battery systems of different models cannot be connected in parallel together.</li></ul>
Smart energy controller	SEC3000C	<ul style="list-style-type: none"><li>A SEC3000C can be used for energy storage inverters paralleling or to form a mixed parallel system of energy storage inverters and the grid-connected inverters.</li><li>The SEC3000C supports up to 10 energy storage inverters to form a parallel system.</li></ul>
Smart meter	GM330	<ul style="list-style-type: none"><li>Please use GM330 smart meter in inverter parallel scenario; In single inverter scenario, GM330 smart meters can be used.</li><li>GM330: Order the CT for GM330 from GoodWe or other suppliers. CT ratio: nA/5A.<ul style="list-style-type: none"><li>nA: CT primary input current, n ranges from 200 to 5000.</li><li>5A: CT Secondary input current.</li></ul></li></ul>
Smart dangle	WiFi/LAN Kit-20 Ezlink3000	<ul style="list-style-type: none"><li>In single inverter system, install WiFi/LAN Kit-20.</li><li>When using SEC3000C for inverter parallel connection, each inverter needs to connect a WiFi/LAN Kit-20.</li><li>In parallel scenario, the EzLink 3000 must be connected to master inverter. Do not connect any smart dangle to slave inverter. The firmware version of EzLink3000 should be 1.5.4 or above.</li><li>When using Ezlink3000 for inverter parallel connection, a maximum of 4 inverters can be connected to form a parallel system.</li></ul>

02 Power On/Off

Single inverter, without BACK-UP function

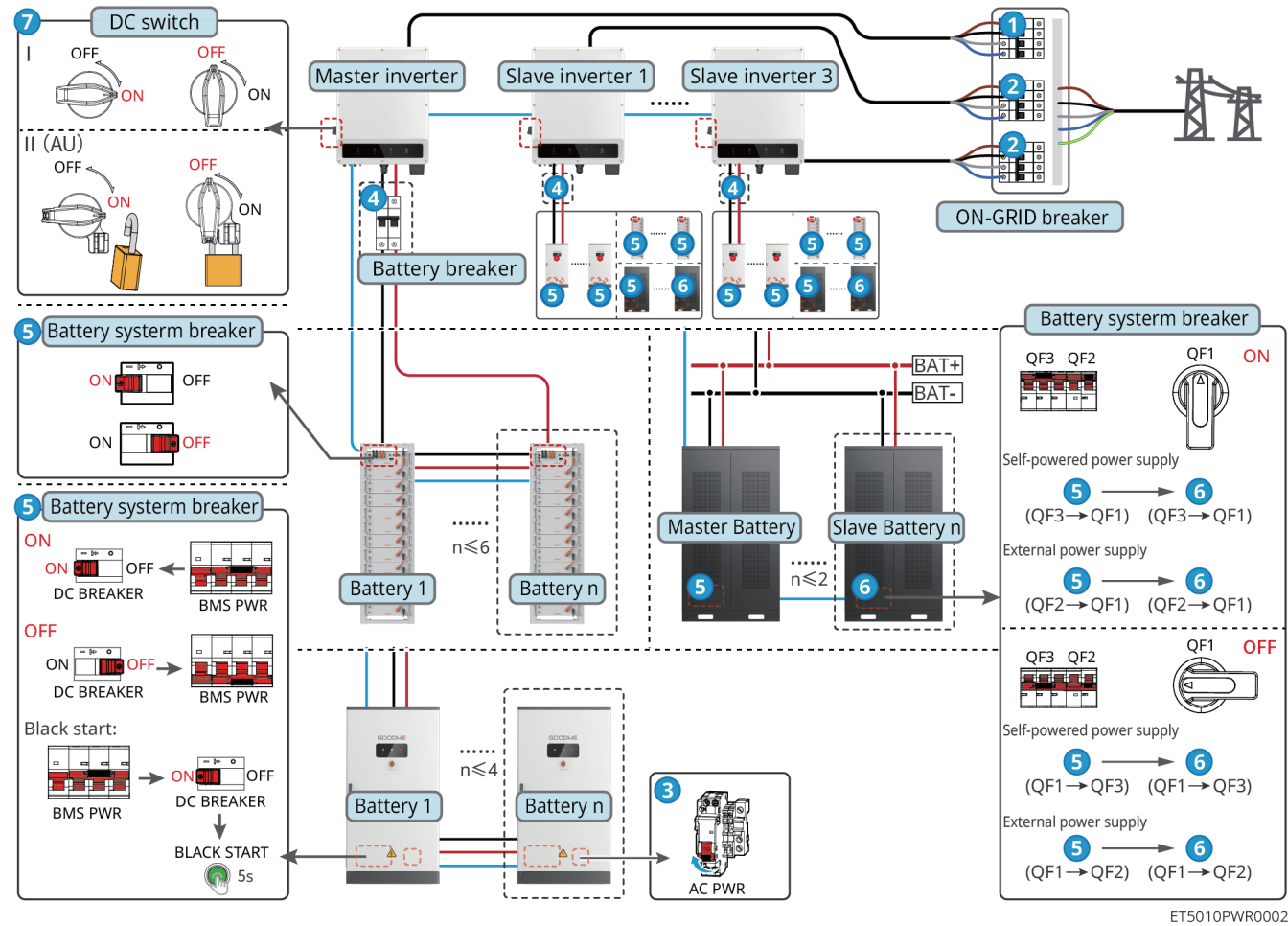


Single inverter, with BACK-UP function





**Multiple inverters in parallel, without BACK-UP function: ET+Battery+GM330+Ezlink3000  
(number of inverter in parallel  $\leq 4$ )**



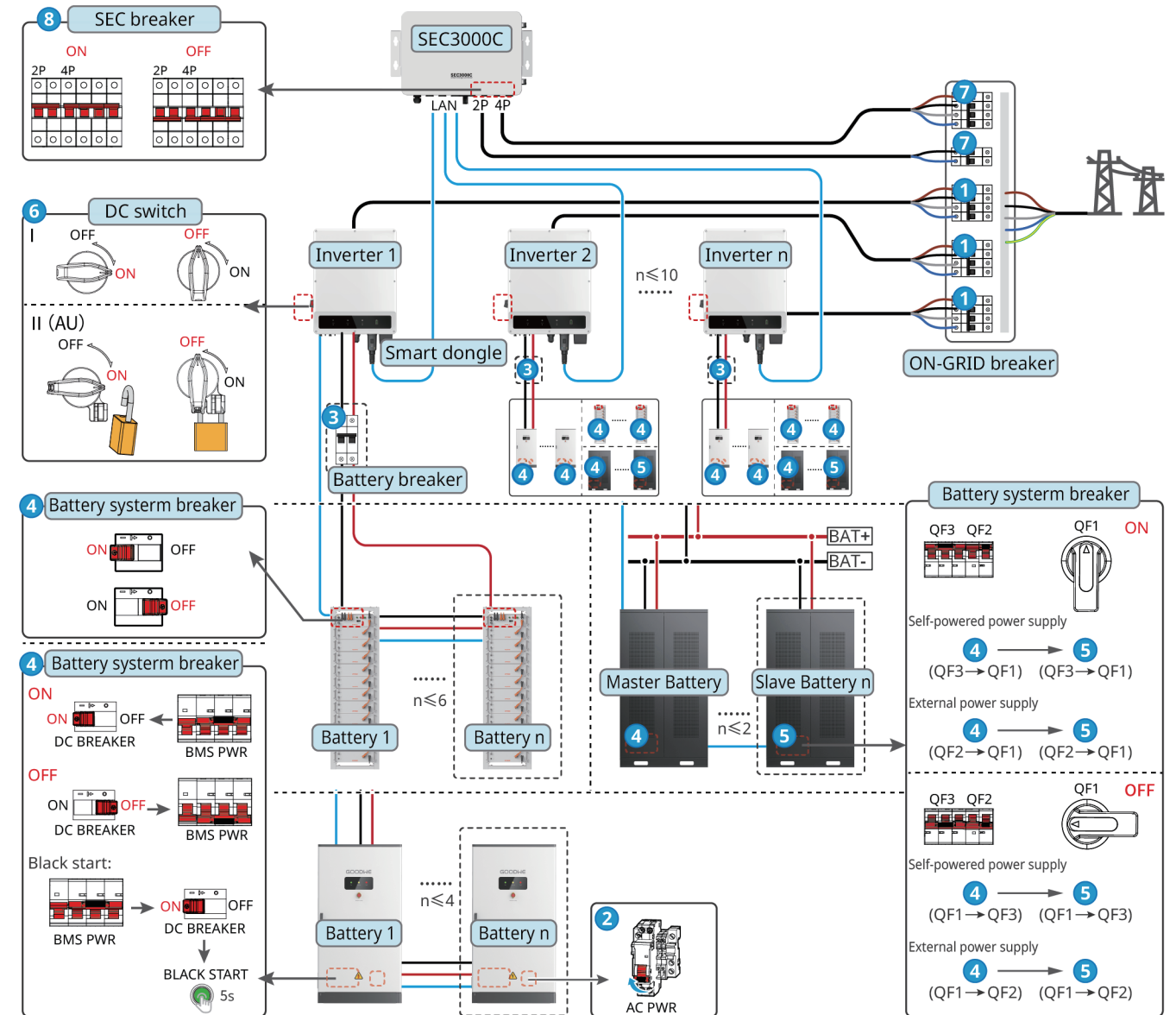
ET5010PWR0002

**Power ON/OFF:**



4 Optional in compliance with local laws and regulations

**Multiple inverters in parallel, without BACK-UP function: ET+Battery+SEC3000C+WiFi/LAN  
Kit-20 (number of inverter in parallel ≤10)**



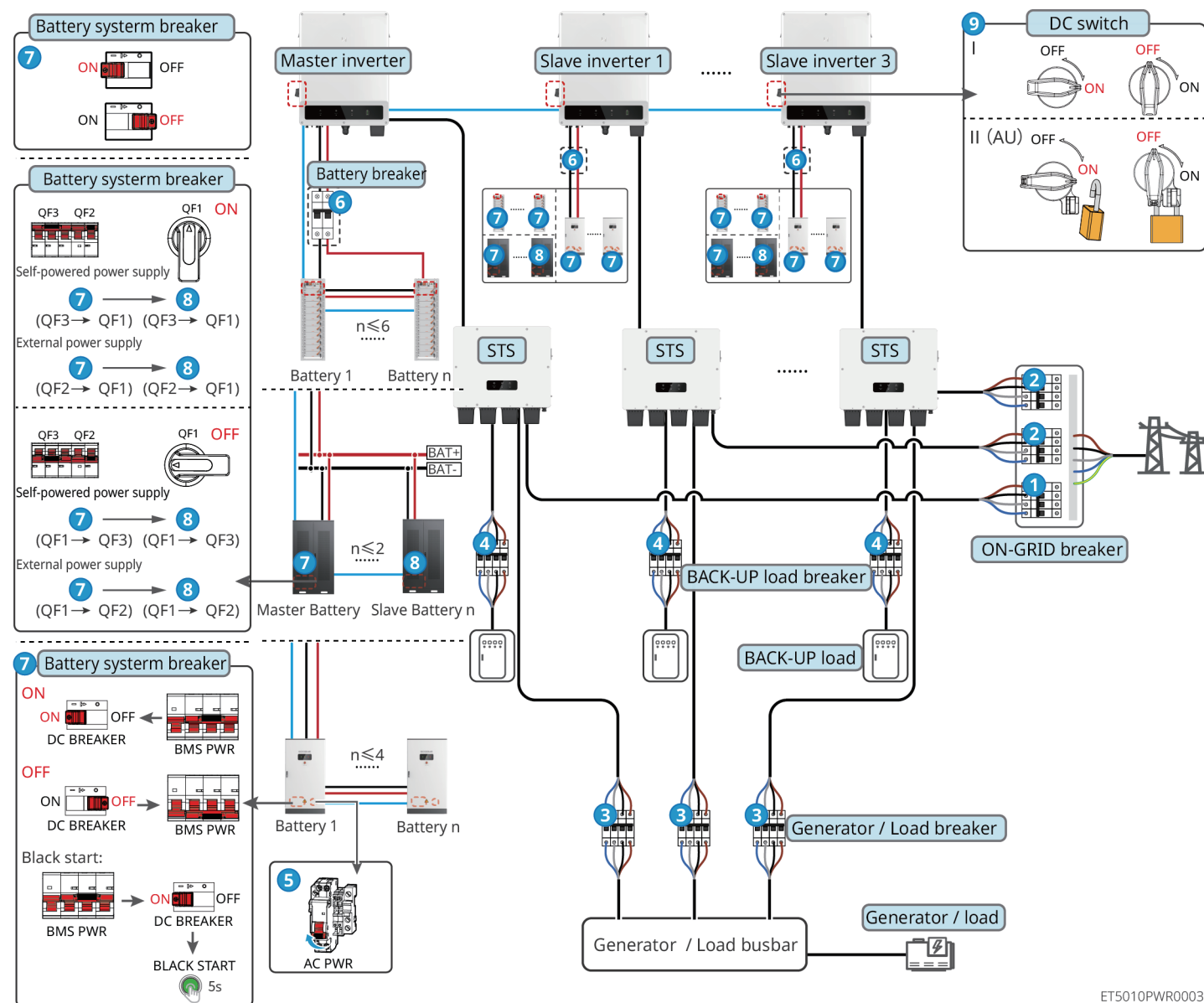
ET5010PWR0006

**Power ON/OFF:**



3 Optional in compliance with local laws and regulations

**Multiple inverters in parallel, without BACK-UP paralleling: ET+STS+Battery+GM330+ Ezlink3000 (number of inverter in parallel  $\leq 4$ )**



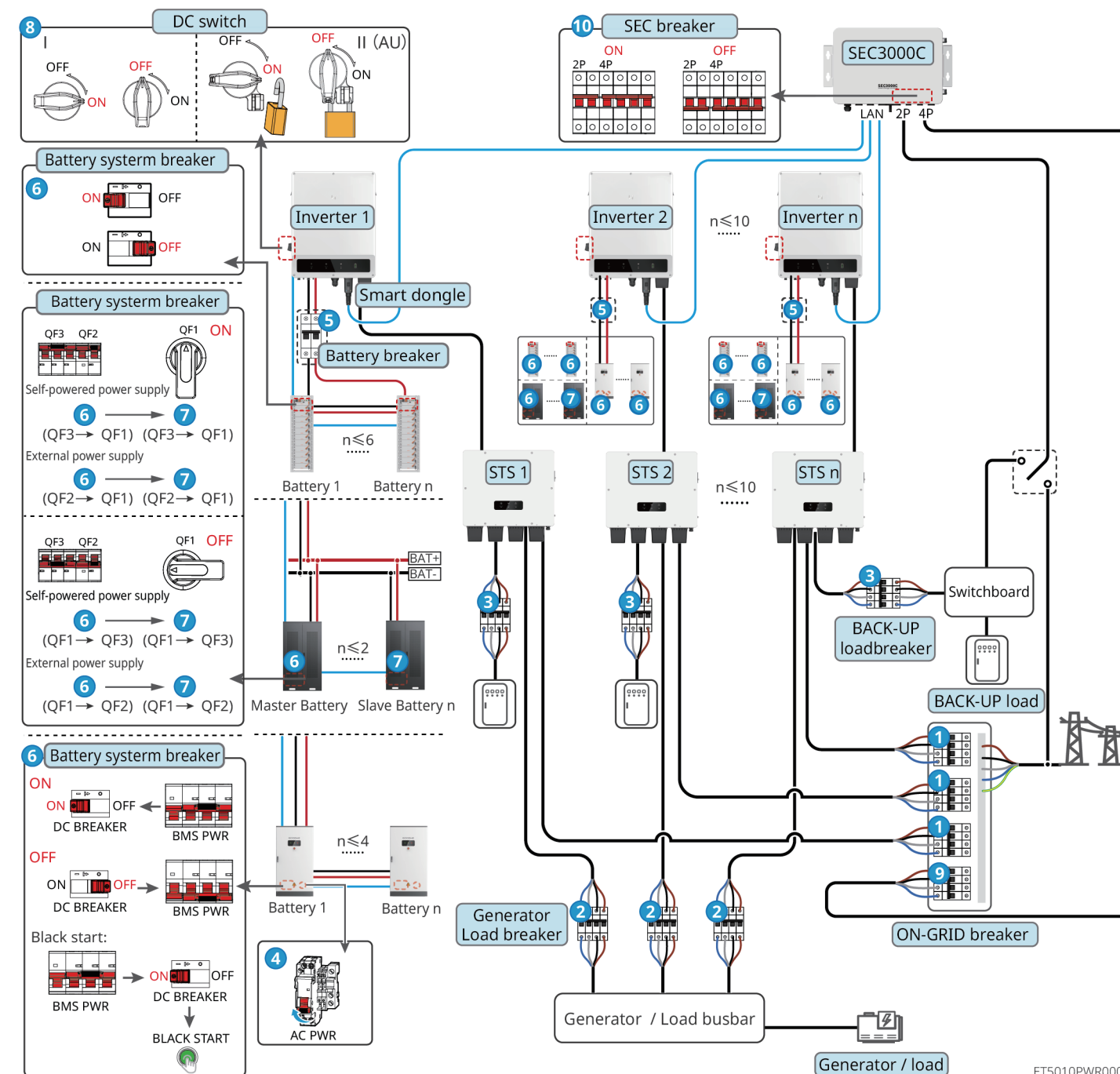
ET5010PWR0003

**Power ON/OFF:**



6 Optional in compliance with local laws and regulations

**Multiple inverters in parallel, without BACK-UP paralleling: ET+STS+Battery+ SEC3000C+WiFi/LAN Kit-20 (number of inverter in parallel  $\leq 10$ )**



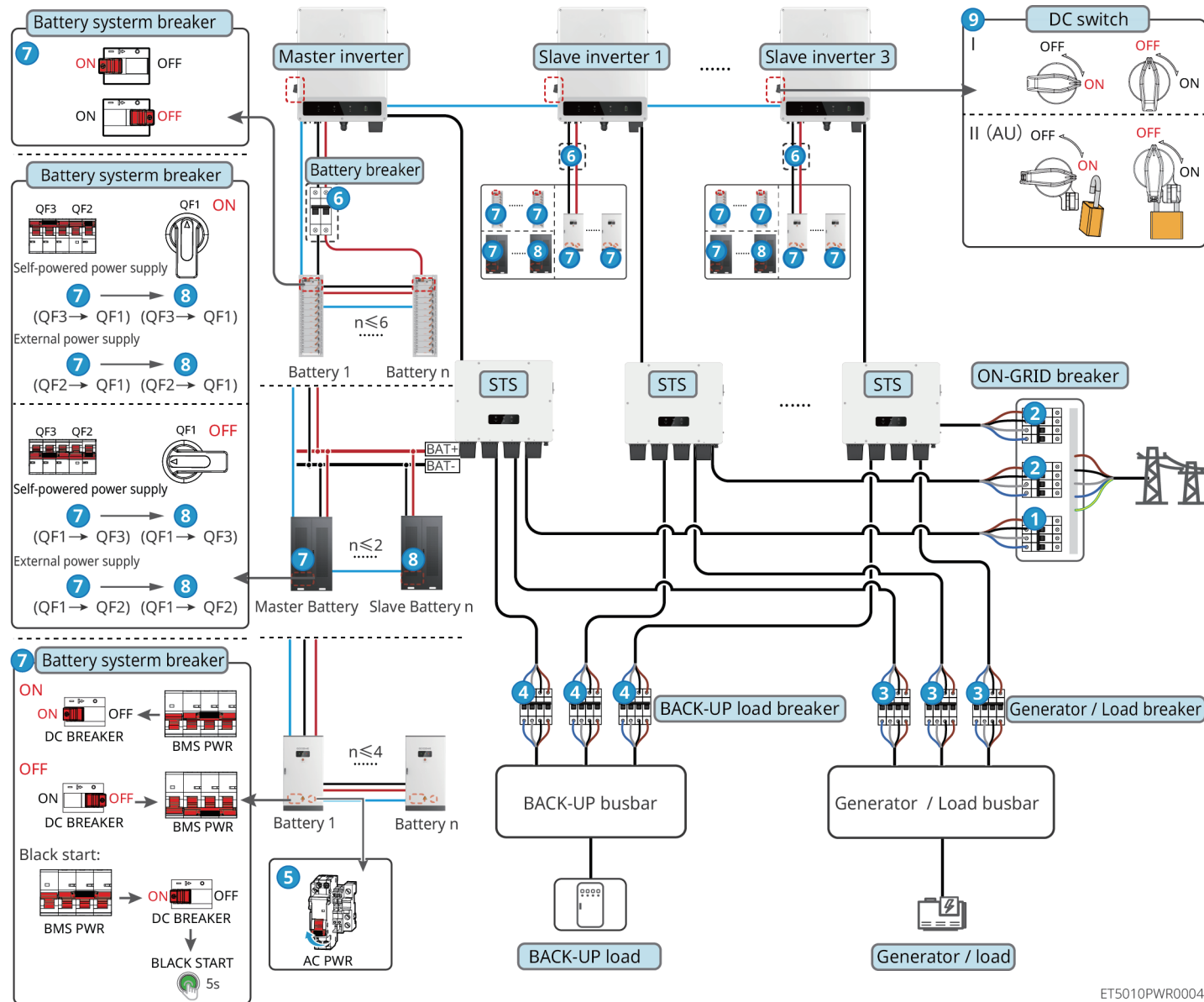
ET5010PWR0007

**Power ON/OFF:**



5 Optional in compliance with local laws and regulations

**Multiple inverters in parallel, with BACK-UP paralleling: ET+STS+Battery+GM330+ Ezlink3000 (number of inverter in parallel ≤4)**

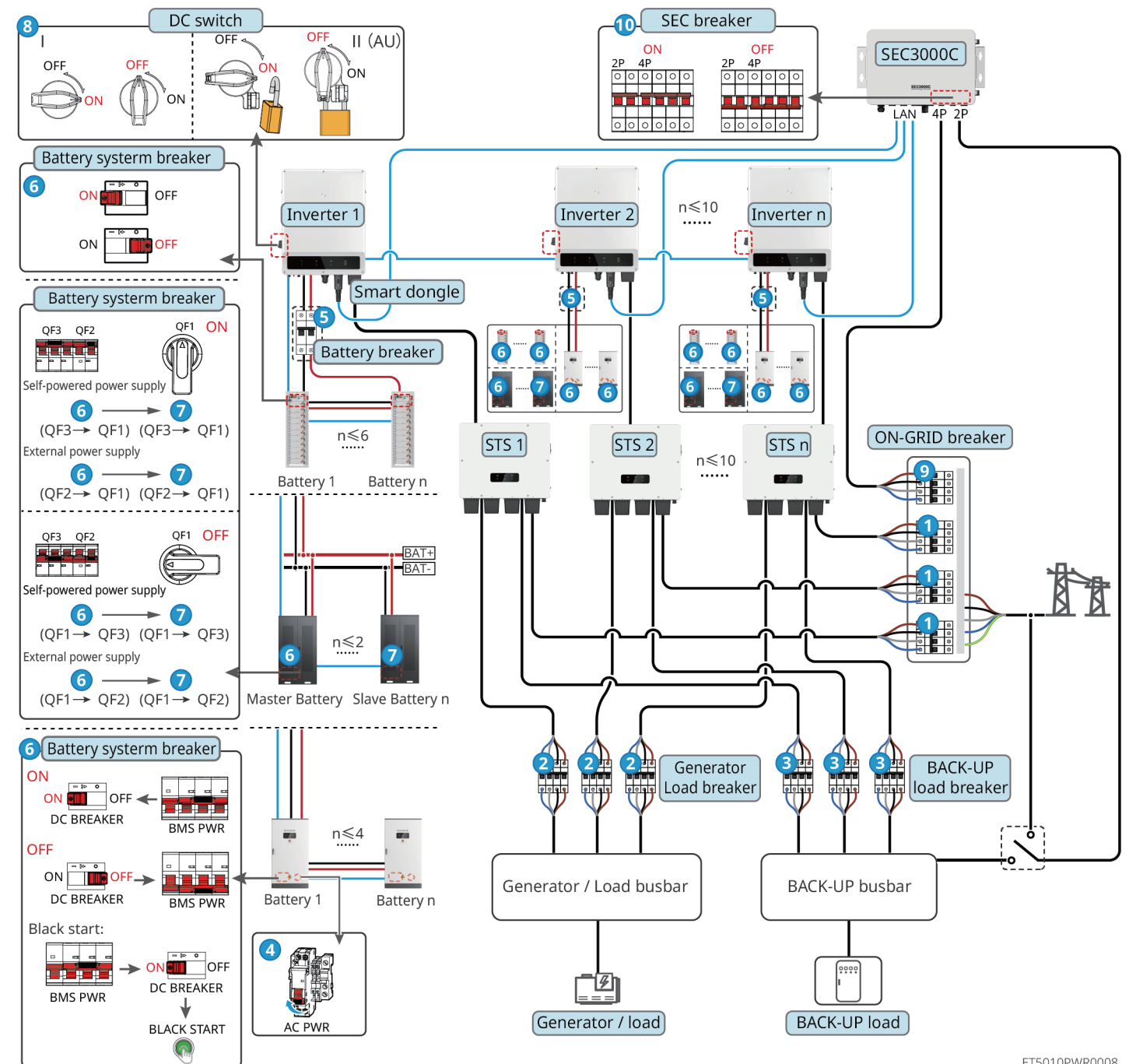


**Power ON/OFF:**

1 → 2 → 3 → 4 → 5 → 6 → 7 → 8 → 9

6 Optional in compliance with local laws and regulations

**Multiple inverters in parallel, with BACK-UP paralleling: ET+STS+Battery+ SEC-3000C+WiFi/LAN Kit-20 (number of inverter in parallel ≤10)**



**Power ON/OFF:**

1 → 2 → 3 → 4 → 5 → 6 → 7 → 8 → 9 → 10

5 Optional in compliance with local laws and regulations



03 Installations

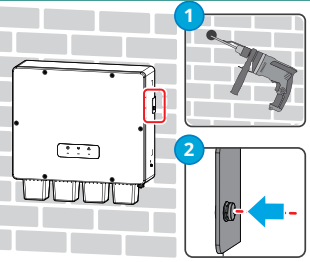
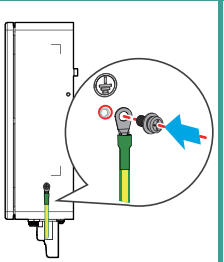
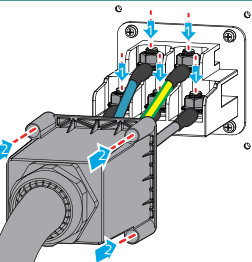
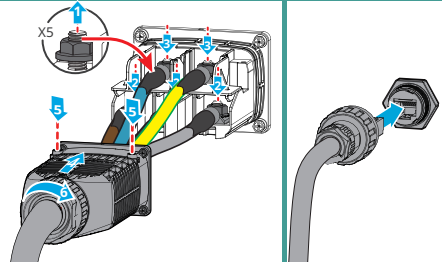
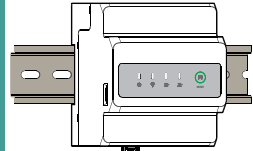
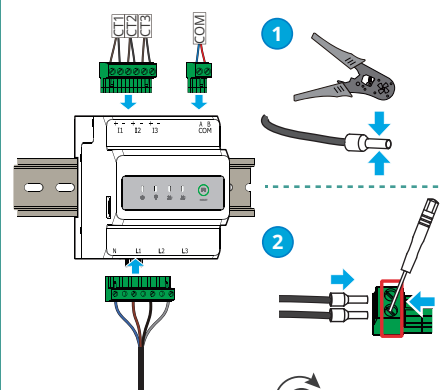
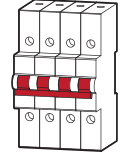

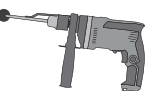

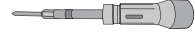

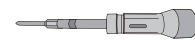

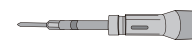
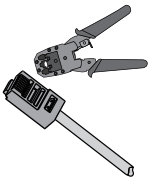
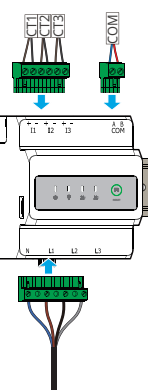
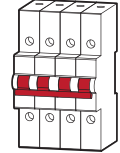
Steps	1 Installation	2 PE	3 PV	4 Battery	5 AC	6 COM	7 Communication module
Inverter							4G Kit-CN LS4G Kit-CN  WiFi/LAN Kit-20  Ezlink3000 
Tools	1 D: 80mm Φ: 8mm  2 M5  1.2-2N·m 	M5  1.5-2N·m 	Recommend: PV-CZM-61100 	Recommend: YQK-70 	1 M8  6-8N·m  2 M4  1.2N·m 	1 M8  8-10N·m  2 M4  0.8N·m 	4G KIT-CN-G21  WiFi/LAN Kit-20  Ezlink3000 

Steps	1 Installation	2 PE	3 Battery	4 COM	5 Air-conditioner wiring
Battery	GW102.4-BAT-AC-G10 GW112.6-BAT-AC-G10 	Lynx C101-156kWh 	GW102.4-BAT-AC-G10 GW112.6-BAT-AC-G10 	GW102.4-BAT-AC-G10 GW112.6-BAT-AC-G10 	GW102.4-BAT-AC-G10 GW112.6-BAT-AC-G10 
Tools	1 D: 80mm Φ: 14mm  2 M12  50N·m 	M6  4.5-6N·m 	M5  4N·m  M8  10N·m 	M8  10-12N·m  Crimping tool 	M4  1.2N·m 

Steps	1 Installation	2 PE	3 Battery	4 COM
Battery				
Tools	1 3 M5  4N·m  2A D: 80mm Φ: 14mm M12  50N·m  2B M5  4N·m ST6.3  10-11N·m  1 4 5 8 M5  4N·m  2 6 D: 60mm Φ: 8mm  3 7 M6  6N·m  M5  4N·m  Crimping tool 			



Steps	1 Installation	2 PE	3 AC	4 CT	5 COM	6 ETH	7 4G	8 DO/DI/AI/PT
Controller SEC3000C								
Tools	<div> <div>A B</div> <div>D: 70mm φ: 15mm</div> <div></div> </div> <div> <div>A</div> <div>M12</div> <div></div> <div>42N·m</div> </div> <div> <div>B C</div> <div>M10</div> <div></div> <div>24N·m</div> </div>	<div>M5</div> <div></div> <div>1.5-2N·m</div> <div></div>	<div>3</div> <div>M7</div> <div></div> <div>2-2.5N·m</div> <div></div>	<div></div> <div>0.5N·m</div> <div></div>	-	-	-	<div>M2</div> <div></div> <div>0.5N·m</div> <div></div>

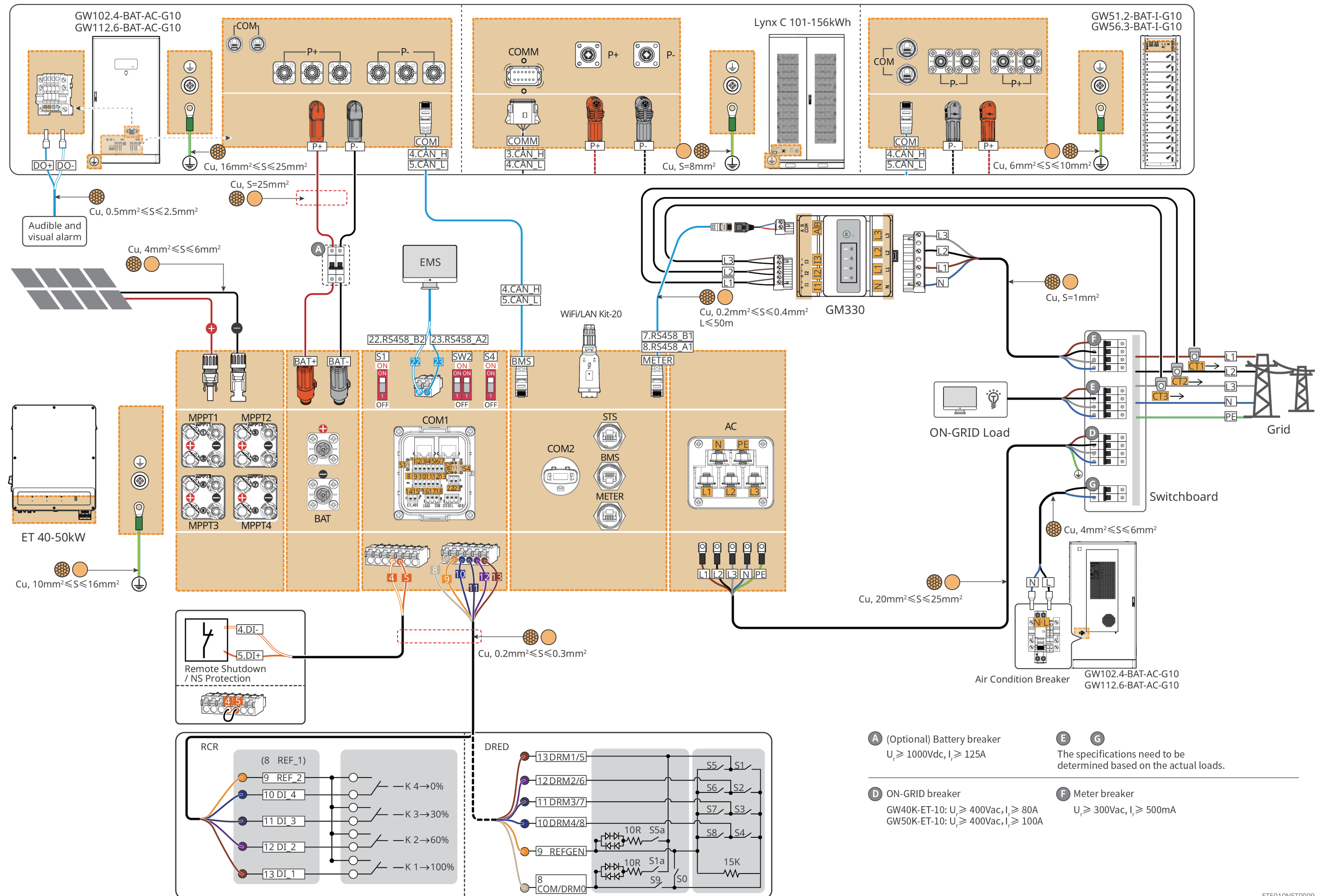
Steps	1 Installation	2 PE	3 AC	4 COM	Steps	1 Installation	2 Cable Connections	3 Power	4 Commissioning
STS					Smart meter GM330				
Tools	<div><div>1</div><div>D: 80mm φ: 8mm</div><div></div></div> <div><div>2</div><div>M5</div><div>1.2-2N·m</div><div></div></div>	<div>M5</div> <div>1.5-2N·m</div> <div></div>	<div><div>1</div><div>M8</div><div>6-8N·m</div><div></div></div> <div><div>2</div><div>M4</div><div>1.2N·m</div><div></div></div>	<div><div>1</div><div>M8</div><div>8-10N·m</div><div></div></div> <div><div>2</div><div>M4</div><div>0.8N·m</div><div></div></div>					

2

M5

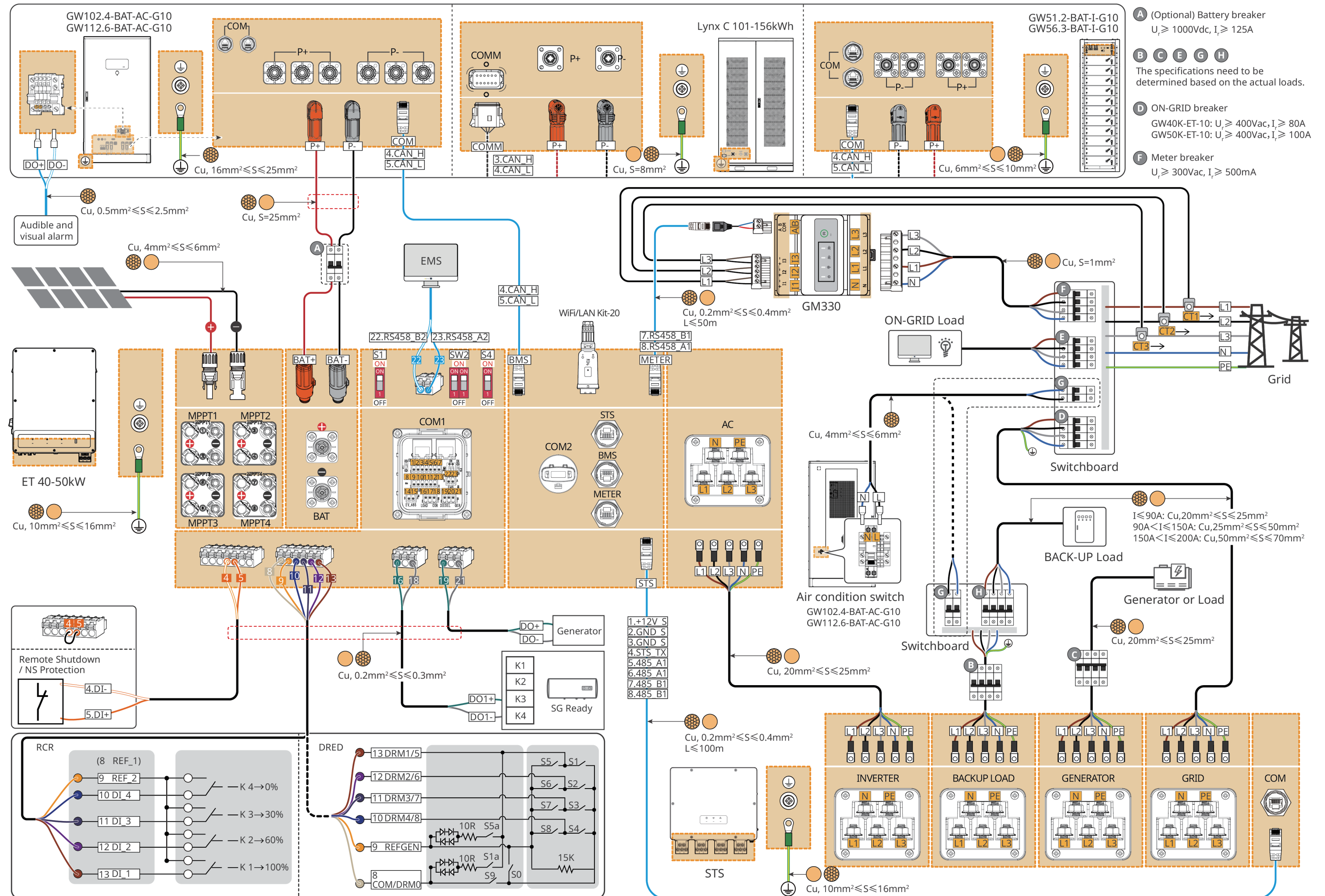
1.2-2N·m

## 04 Wiring Diagram Single inverter, without BACK-UP function: Inverter + Battery + GM330

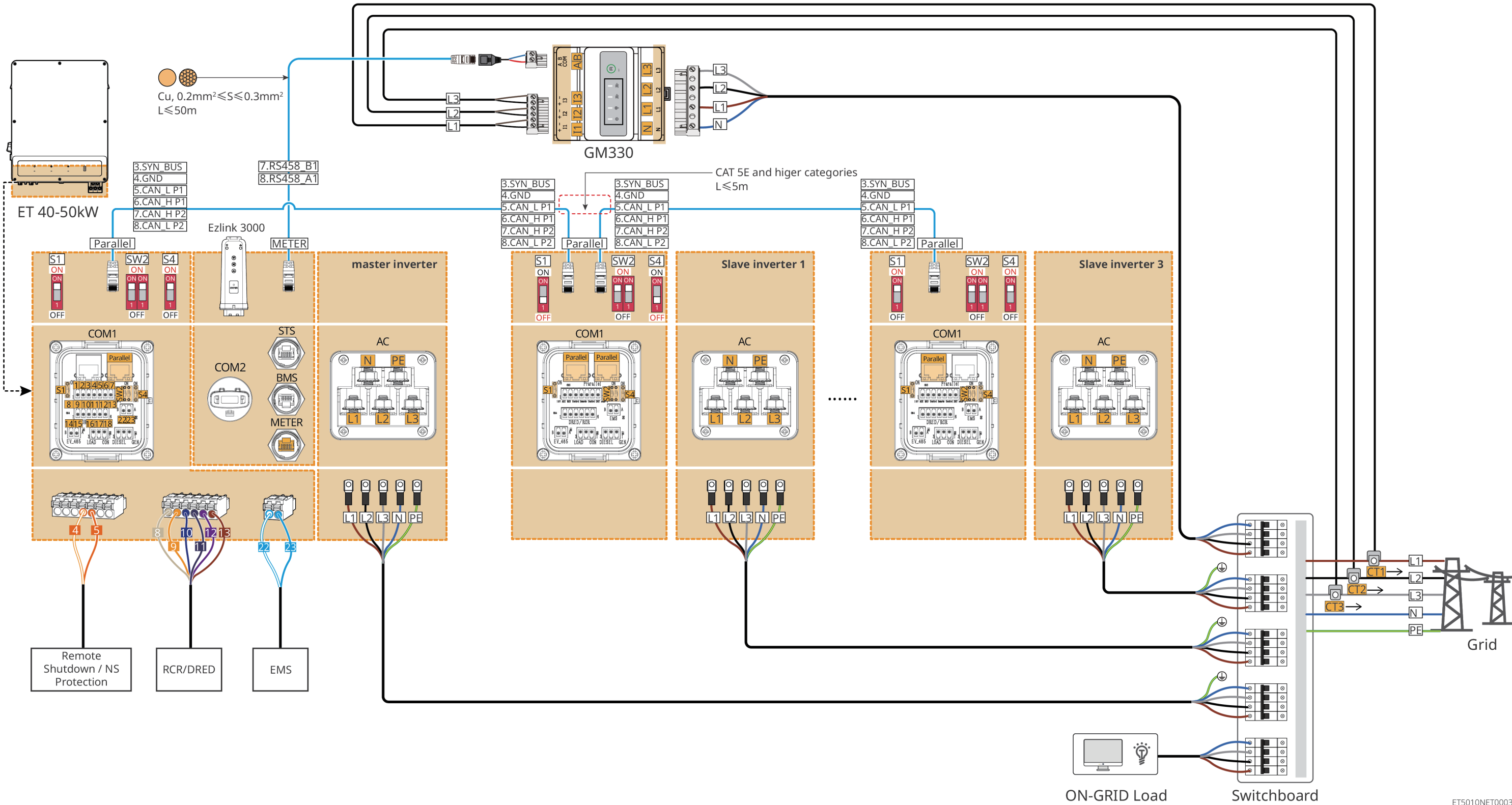




Single inverter, with BACK-UP function: Inverter + STS + Battery + GM330

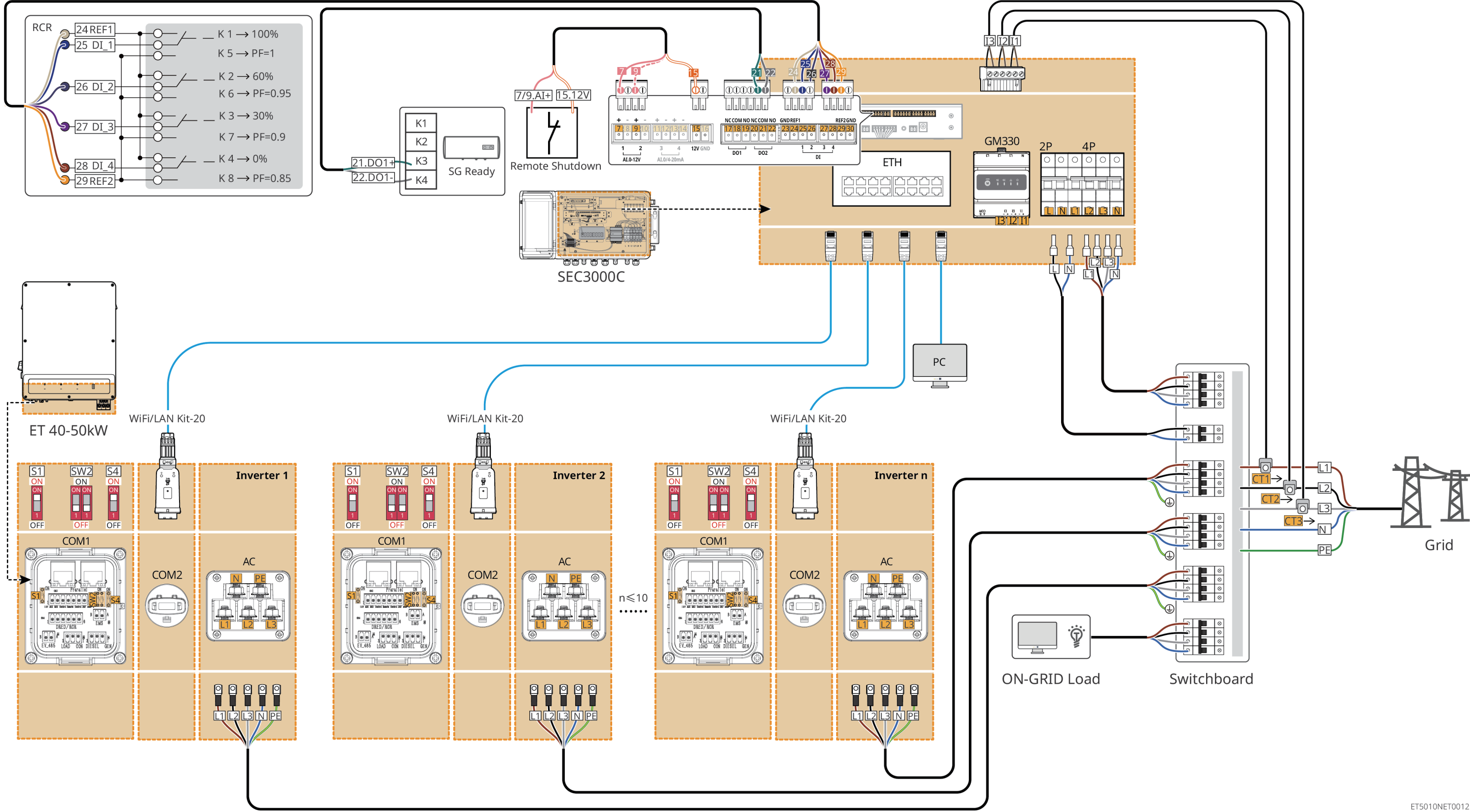


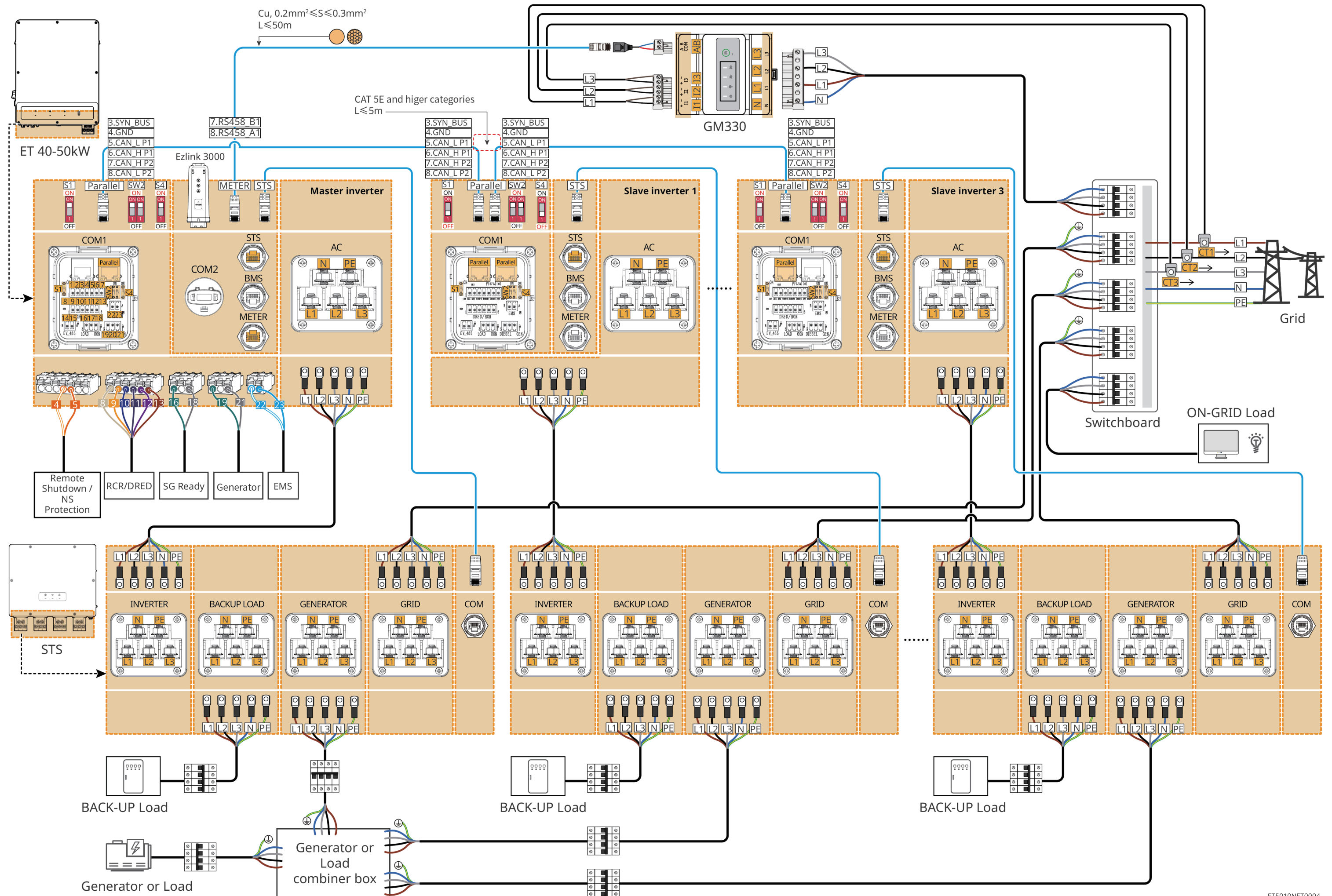
Multiple inverter in parallel, without BACK-UP function: Inverters + Battery + GM330 + Ezlink3000 (number of inverters in parallel≤4)



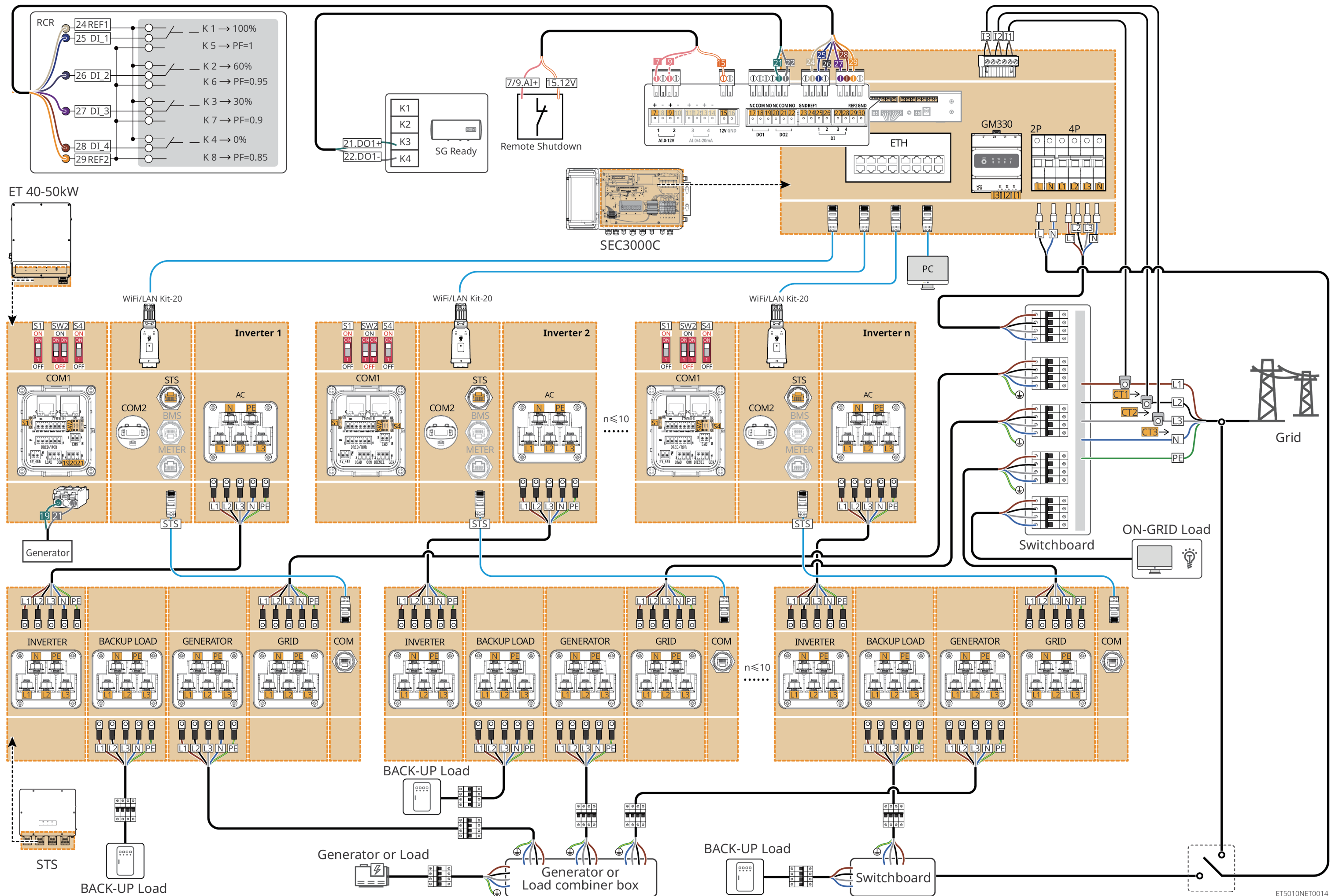


Multiple inverter in parallel, without BACK-UP function: Inverters + Battery + SEC3000C + WiFi/LAN Kit-20 (number of inverters in parallel≤10)

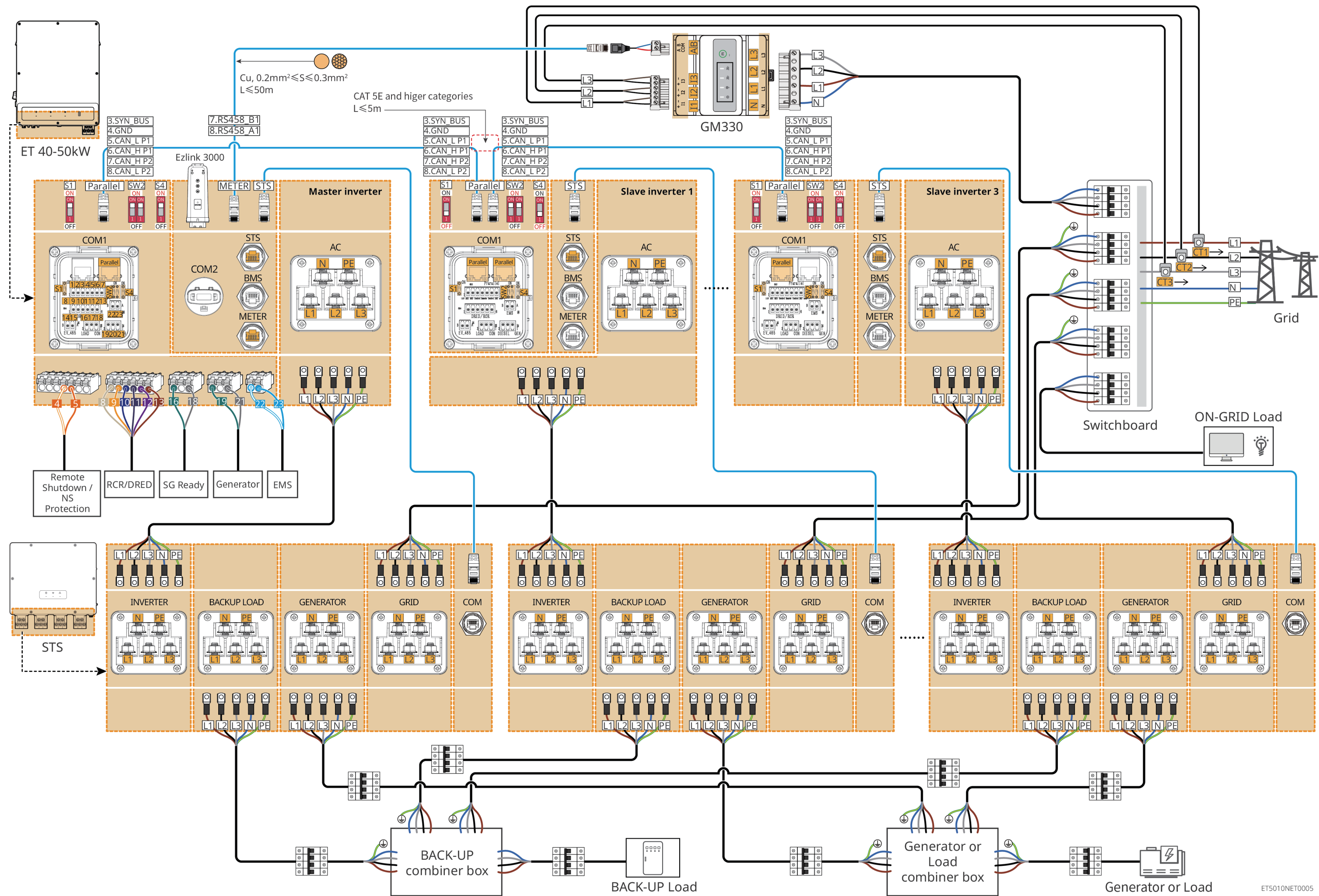






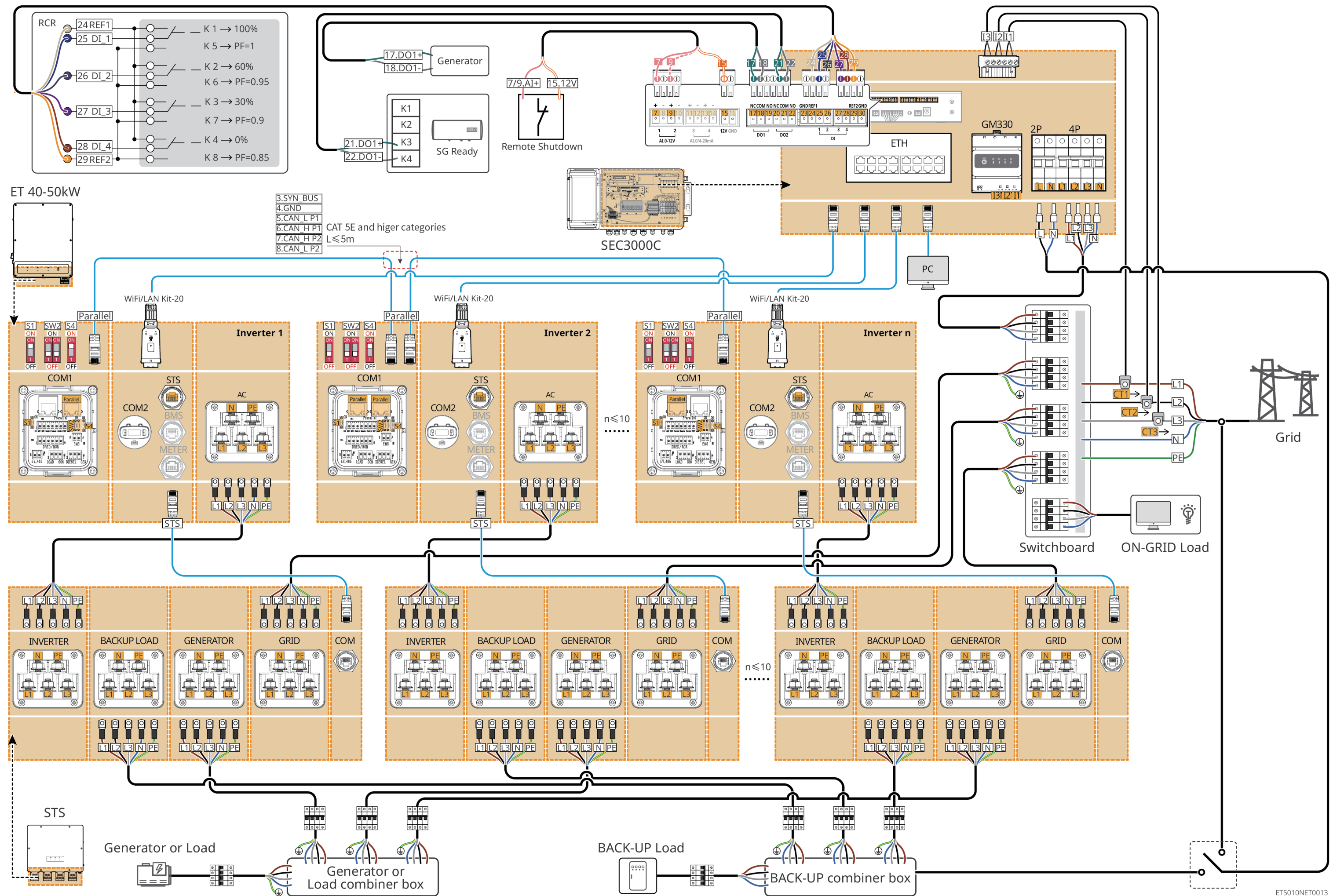


Multiple inverter in parallel, with BACK-UP paralleling: Inverters + STS + Battery + GM330 + Ezlink3000 (number of inverters ≤ 4)

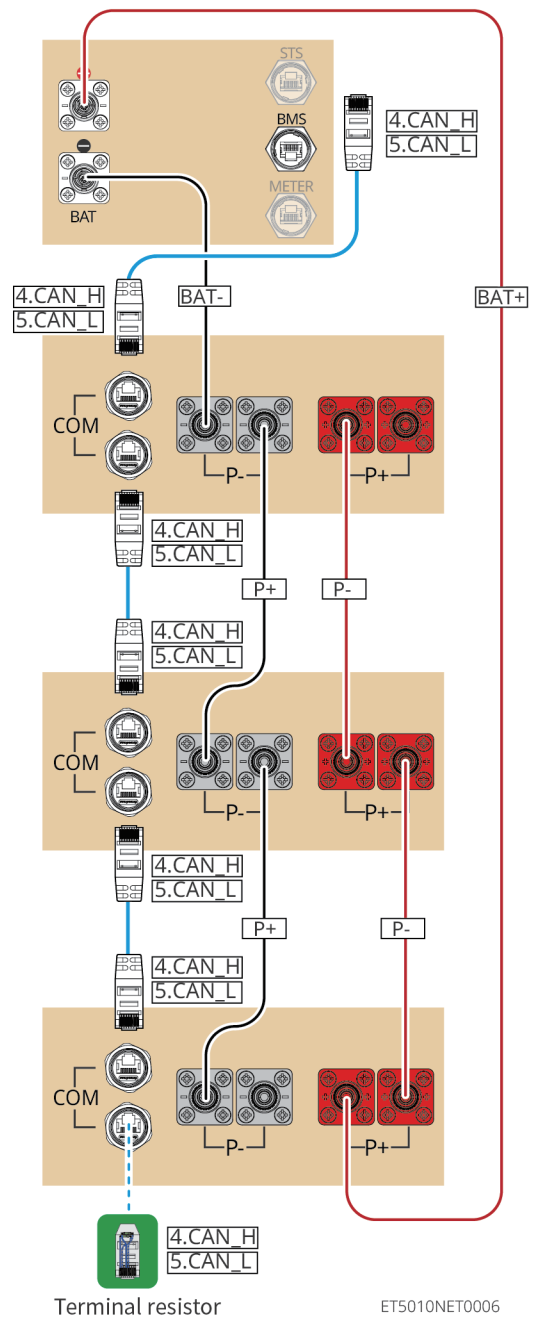
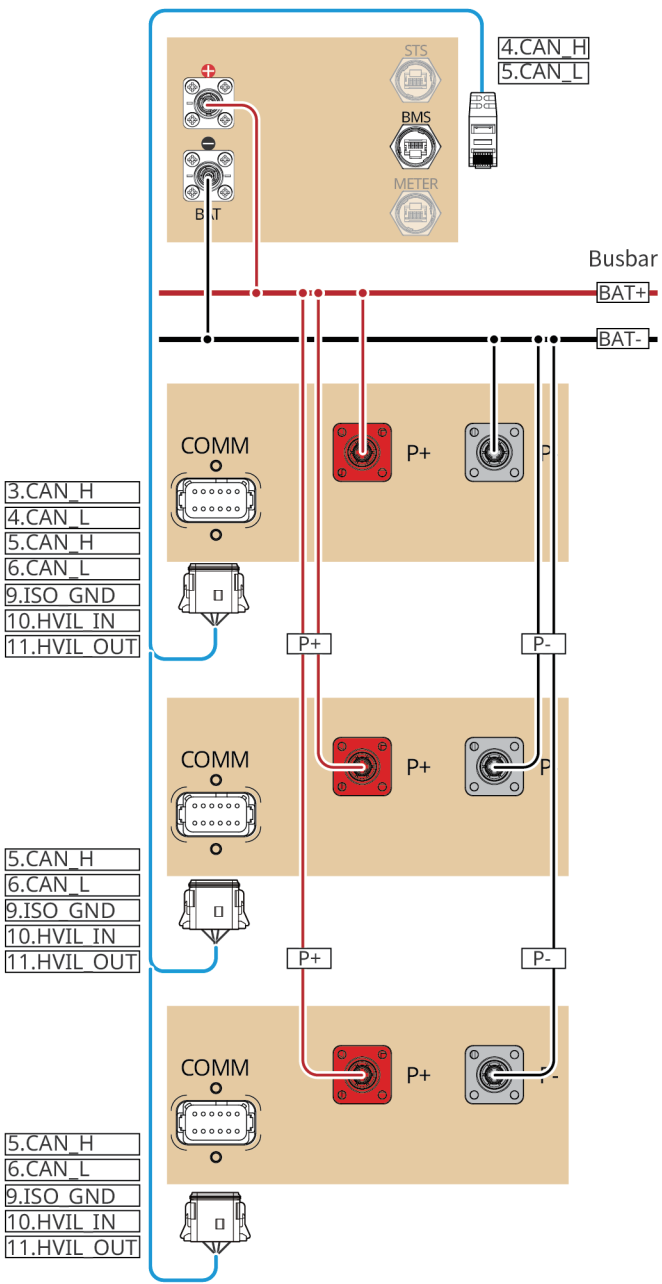
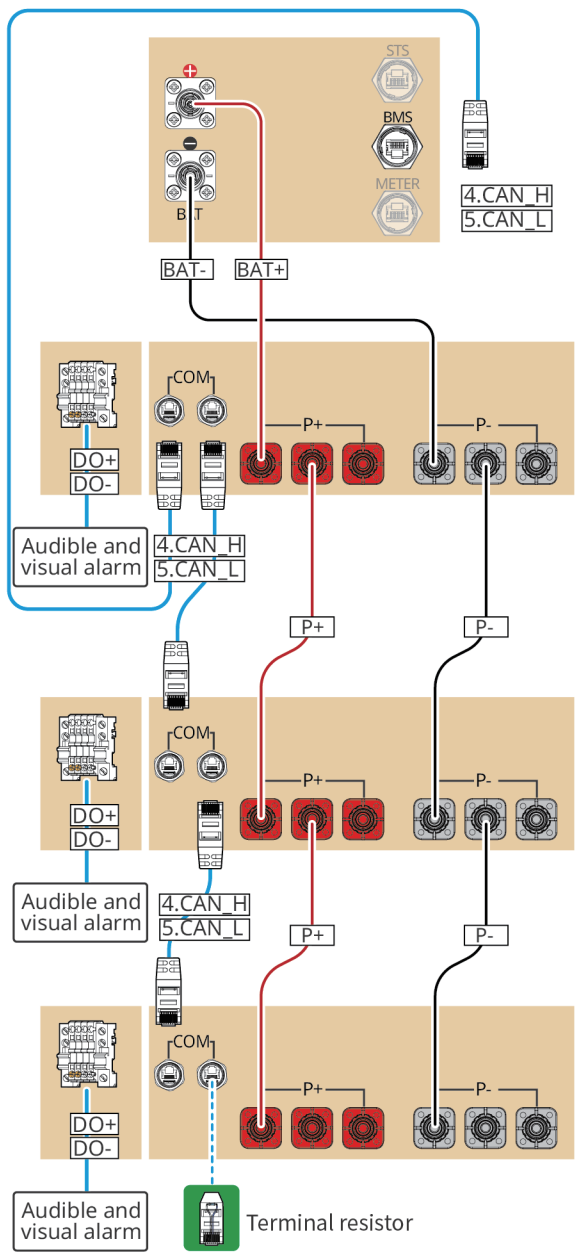
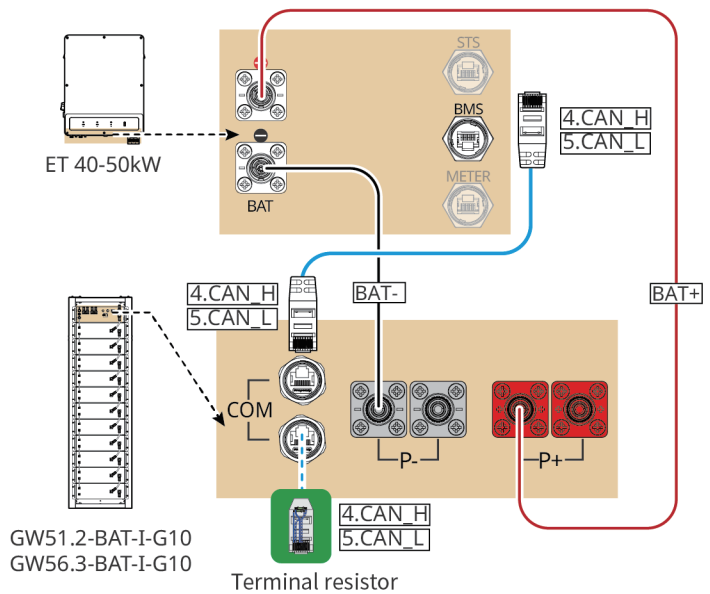
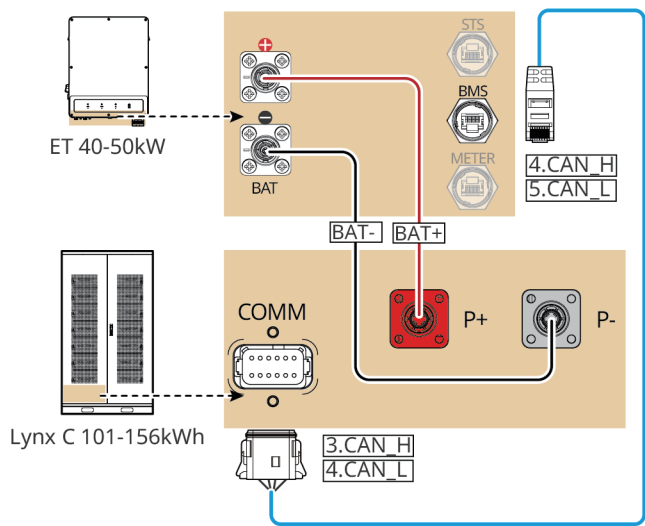
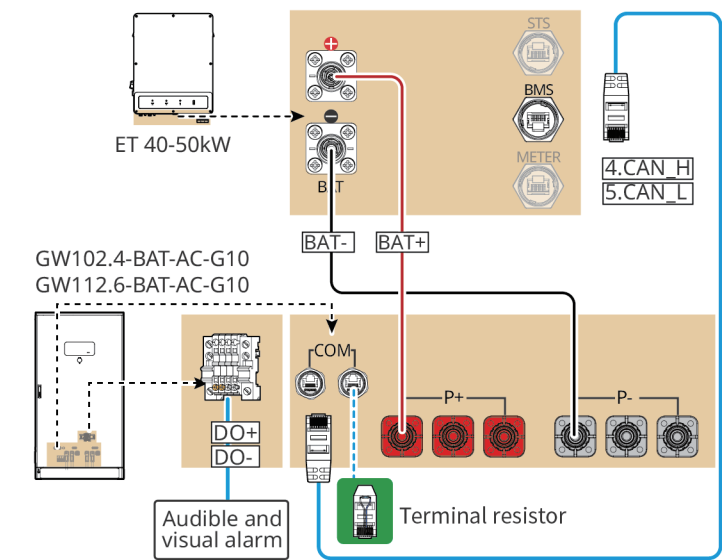




Multiple inverter in parallel, with BACK-UP paralleling: Inverters + STS + Battery + GM330 + Ezlink3000 (number of inverters  $\leq 4$ )



Battery system wiring diagram



CAT 5E and higher categories



## 05 Commissioning

If the energy storage system has been operated independently, it is necessary to ensure that all energy storage system parameters are set the same before forming a parallel system; Otherwise, it may result in the failure of parallel system parameter settings.



SolarGo App



SEMS Portal App



- In parallel scenarios, the software version of SolarGo App should be 5.7.1 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

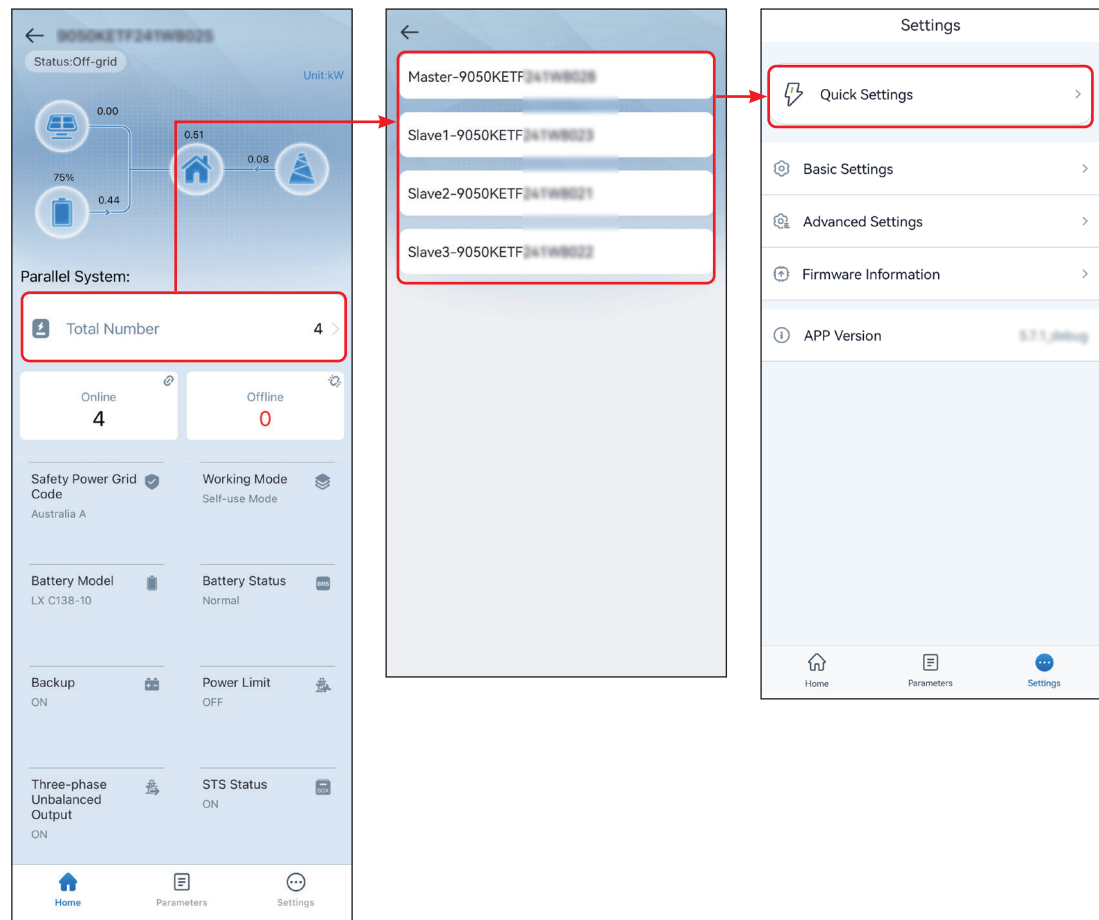
### Setting Inverter Quantity (Only For Parallel Connections)

### Setting the BAT Connect Mode

### Setting the Working Mode

## Setting Batteries Of Each Inverters (Only For Parallel Connections)

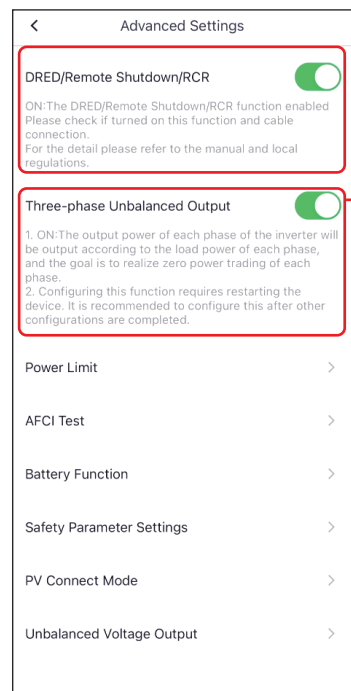
Open SolarGo App. Follow the prompts to set the battery model and connection mode of each inverter.



## Setting Advanced Parameters

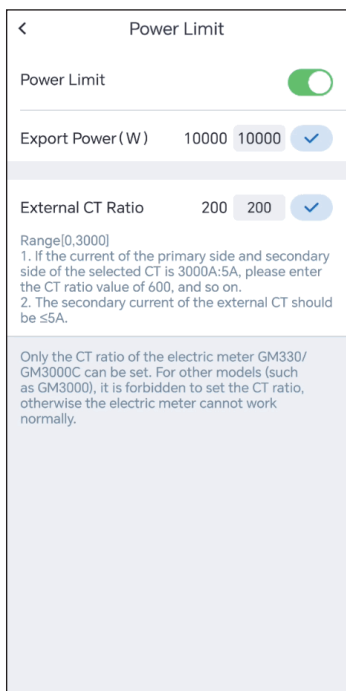
Tap Home > Settings > Advanced Settings to set the following functions.

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



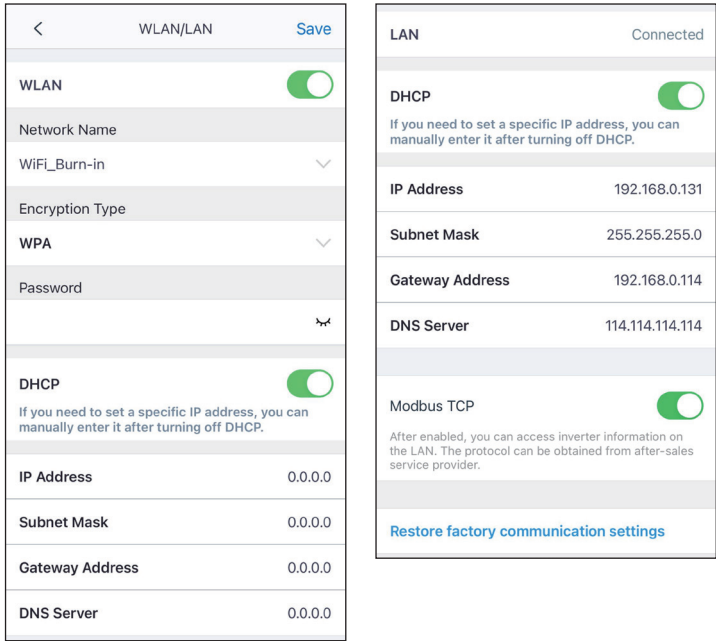
Enable Three-phase Unbalanced Output when the utility grid company adopts phase separate billing.

**Setting the Power Limit Function**



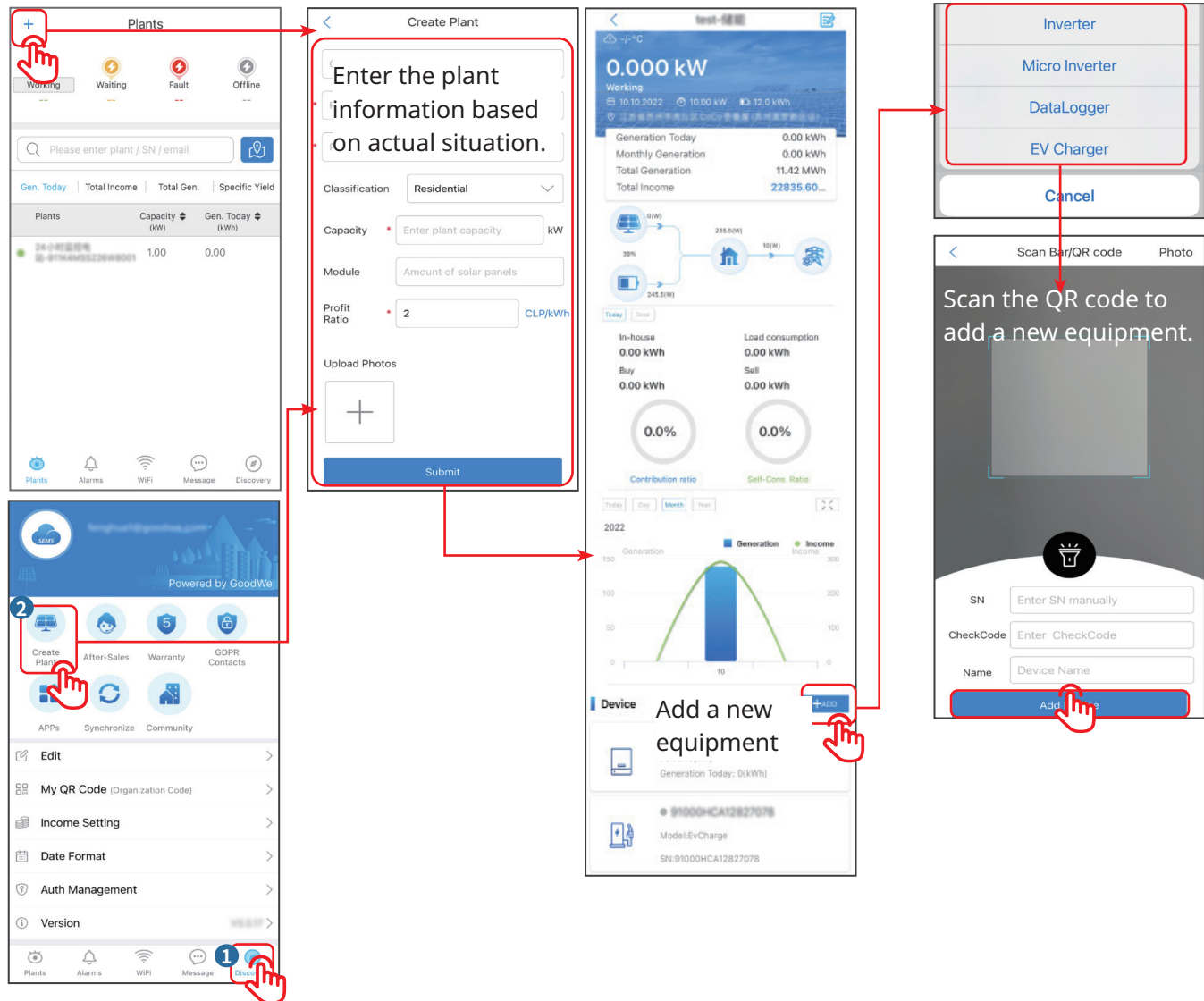
## Configuring the Network

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



## Creating a Power Plant

Create power plants and add equipments via SEMS Portal app.





Setting Wiring Method

Do not set the Wiring Method if the inverter is installed for the first time and only one inverter is applied.  
Log in SolarGo app and tap **Home > Settings > Wiring Method** to set the wiring method.

