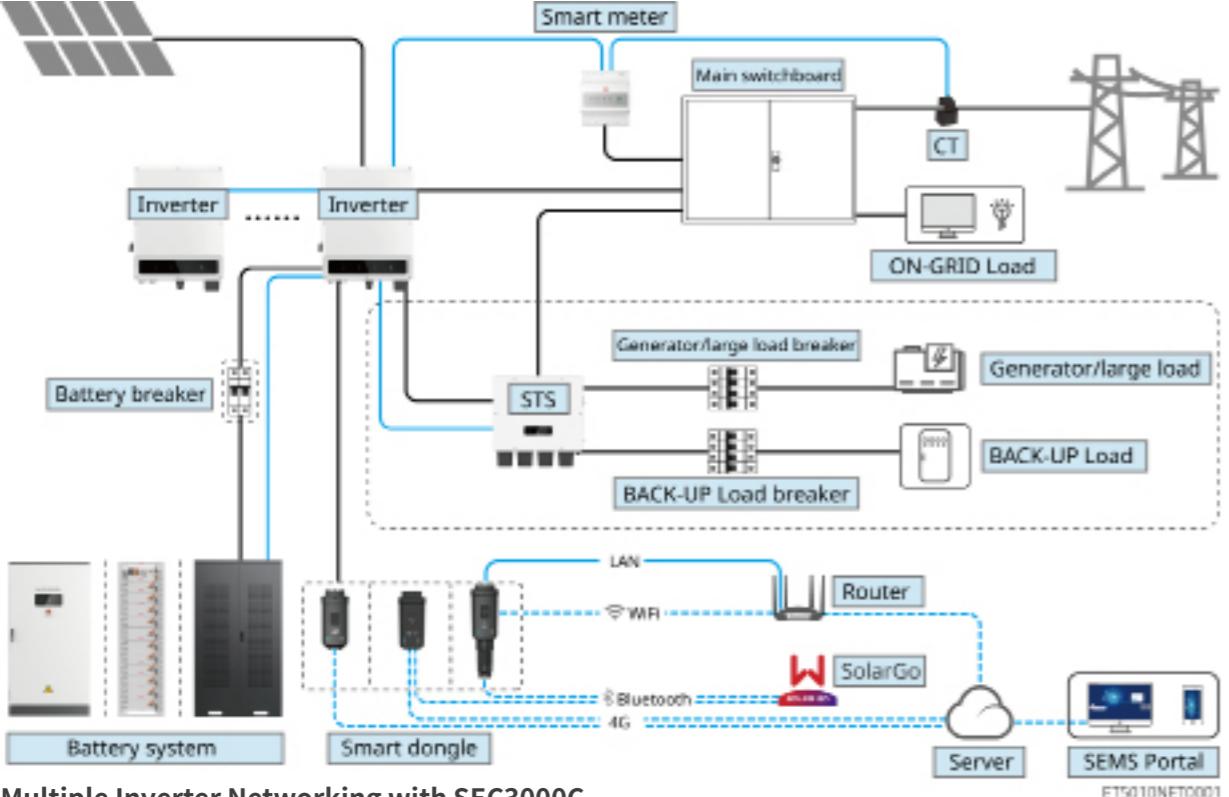
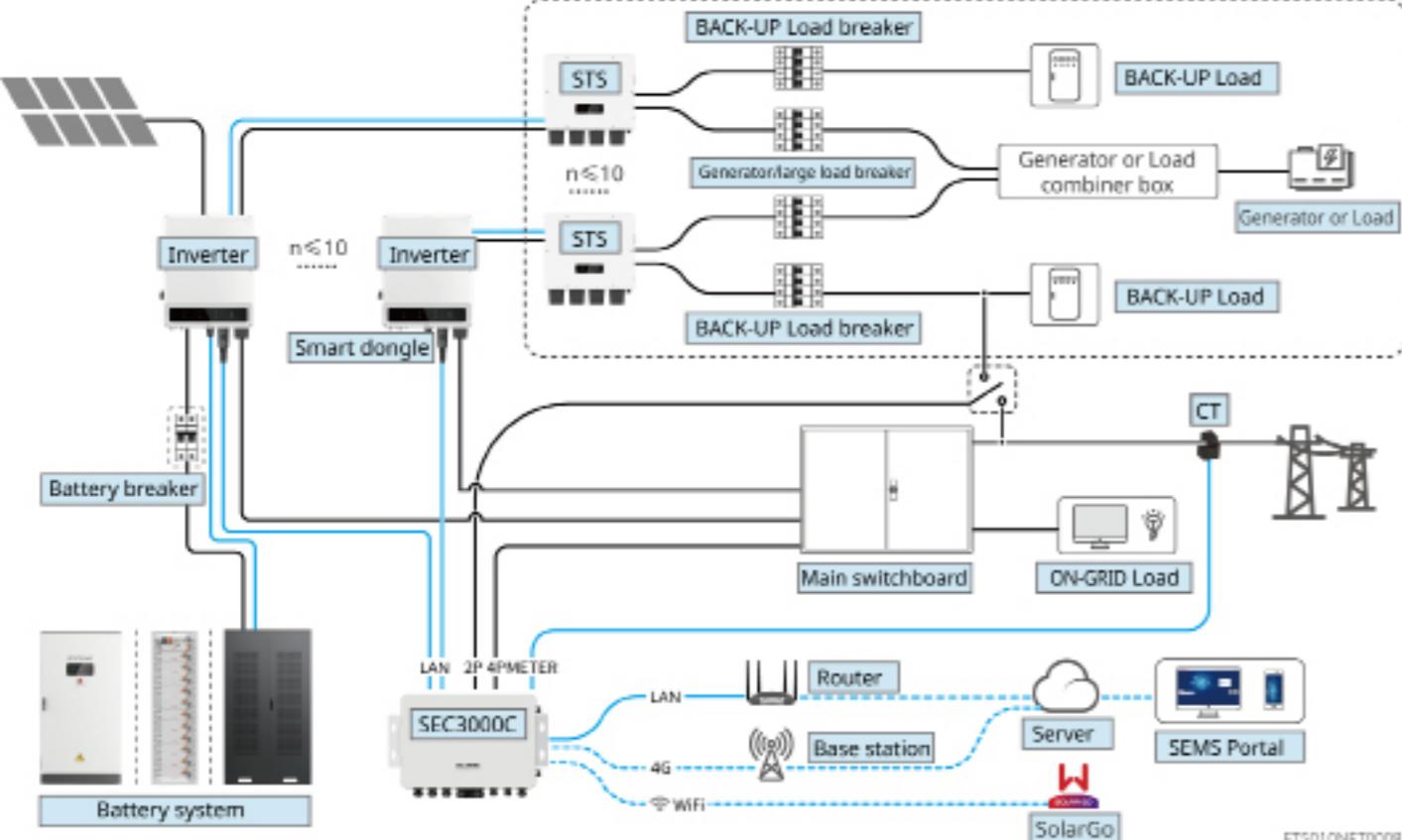


WARNING

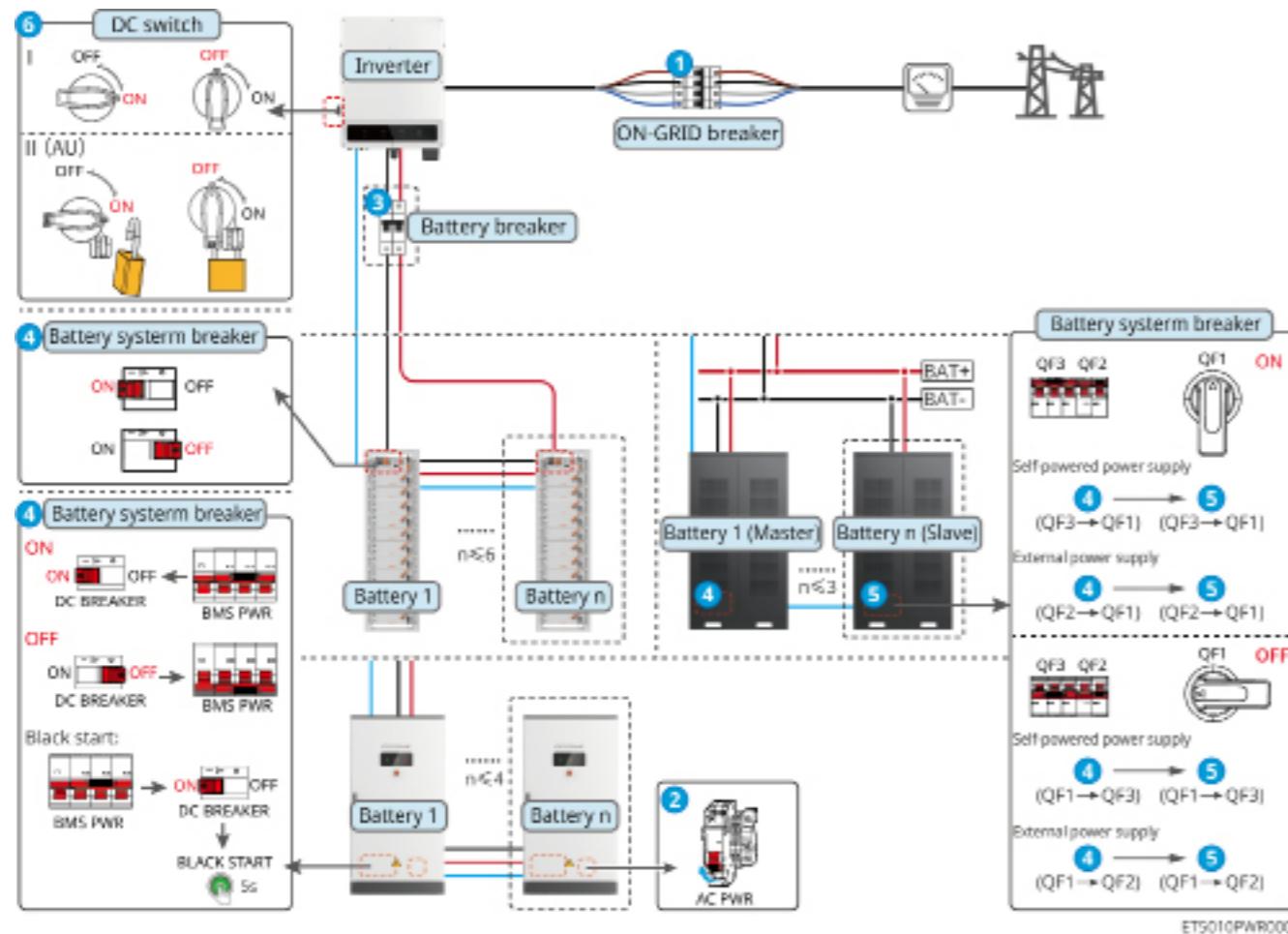
The information in this user manual is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions in the manual are for guidance only.

01 Networking**Single Inverter/Multiple Inverter Networking with Ezlink3000****Multiple Inverter Networking with SEC3000C**

Product Type	Model	Explanation
Inverter	GW25K-ET-10 GW30K-ET-10 GW40K-ET-10 GW50K-ET-10	GW25K-ET-10 and GW30K-ET-10 only support forming a parallel system via Ezlink3000 and do not support SEC3000C parallel operation. For multiple inverters paralleling system, the following version requirements must be met: <ul style="list-style-type: none"> All inverters in the paralleling system have consistent software versions Inverter software version requirements: <ul style="list-style-type: none"> Inverter ARM software version is 11.475 or above Inverter DSP software version is 4.400 or above
STS	STS200-80-10	The off grid function can be used only with a static transfer switch. The software version of static transfer switch is 4.400 or above. No circuit breaker shall be installed between the inverter and the static transfer switch.
	LX C101-10 LX C120-10 LX C138-10 LX C156-10	<ul style="list-style-type: none"> A maximum of 3 battery systems can be clustered in a system. Battery systems of different models cannot be connected in parallel together.
Battery system	GW25.6-BAT-I-G10 GW30.7-BAT-I-G10 GW35.8-BAT-I-G10 GW40.9-BAT-I-G10 GW46.0-BAT-I-G10 GW51.2-BAT-I-G10 GW56.3-BAT-I-G10	<ul style="list-style-type: none"> A maximum of 6 battery systems can be clustered in a system. Battery systems of different models cannot be connected in parallel together.
	GW92.1-BAT-AC-G10 GW102.4-BAT-AC-G10 GW112.6-BAT-AC-G10	<ul style="list-style-type: none"> A maximum of 4 battery systems can be clustered in a system. Battery systems of different models cannot be connected in parallel together.
Smart energy controller	SEC3000C	For information on SEC3000C requirements, installation, wiring, etc., please refer to the SEC3000C User Manual .
Smart meter	• GM330	For single inverter scenario or inverters paralleling scenario with Ezlink3000, a smart meter needs to be used. The meter will be delivered with inverter. The CT can be purchased from GoodWe or other suppliers. CT ratio: nA/5A. <ul style="list-style-type: none"> nA: CT primary input current, n ranges from 200 to 5000. 5A: CT Secondary input current.
Smart dongle	<ul style="list-style-type: none"> 4G Kit-CN (Only China) 4G Kit-CN-G21 (Only China) WiFi/LAN Kit-20 Ezlink3000 	<ul style="list-style-type: none"> When operating as a standalone unit, use the WiFi/LAN Kit-20, 4G Kit-CN, or 4G Kit-CN-G21. When configuring a parallel system with the SEC3000C inverter, each inverter must be paired with a WiFi/LAN Kit-20 for network wiring. When operating in parallel, only the master inverter needs to be connected to the Ezlink3000; the slave inverters do not need to be connected to the smart dongle. The Ezlink3000 firmware version must be 1.5.4 or higher. When using the Ezlink3000 for parallel operation, up to four inverters can be configured into a parallel system.

02 Power On/Off

Single inverter, without BACK-UP function

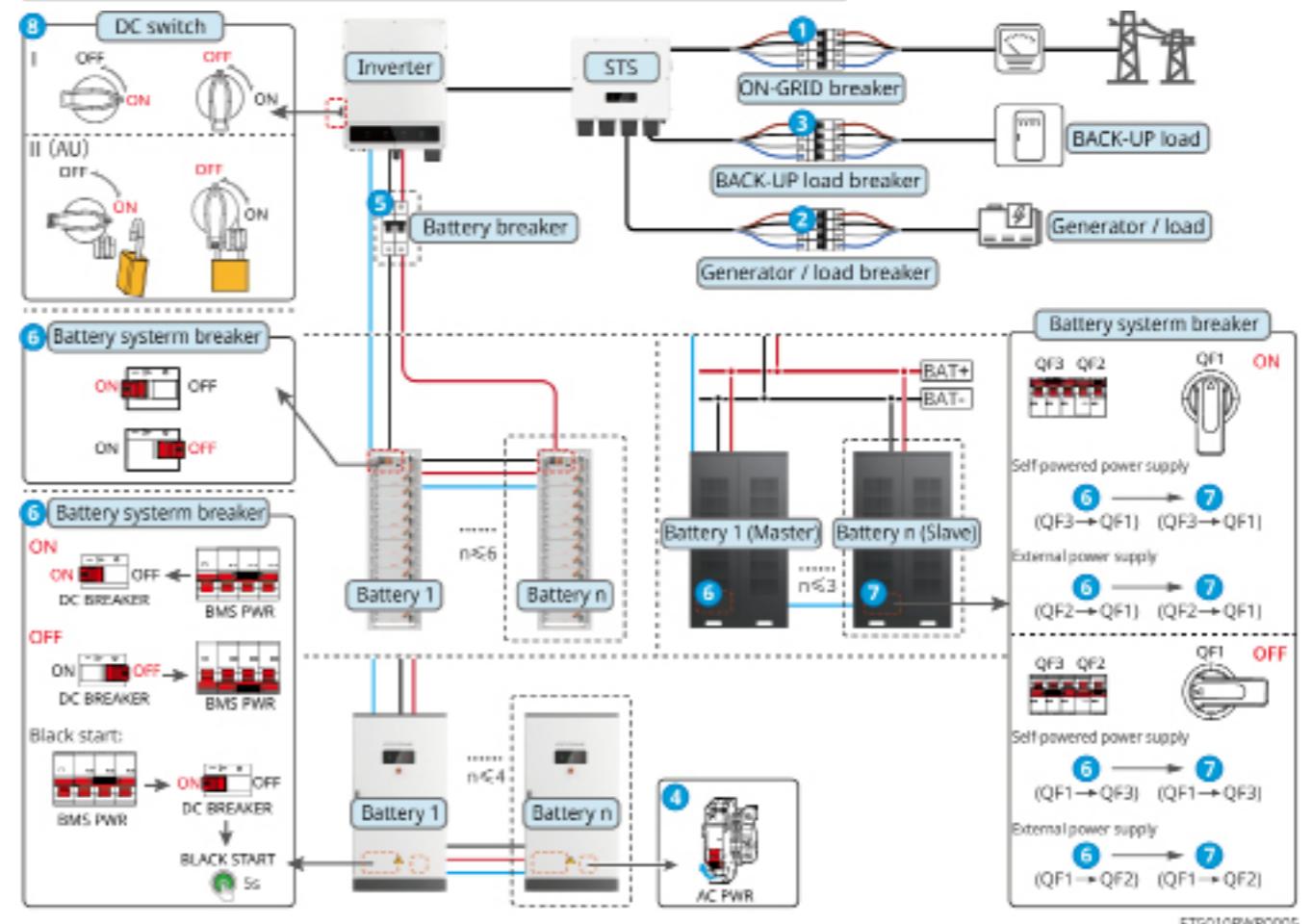


Power ON/OFF:

```
graph LR; 1((1)) --> 2((2)); 2 --> 3((3)); 3 --> 4((4)); 4 --> 5((5)); 5 --> 6((6))
```

3 Optional in compliance with local laws and regulations

Single inverter, with BACK-UP function



Power ON/OFF:

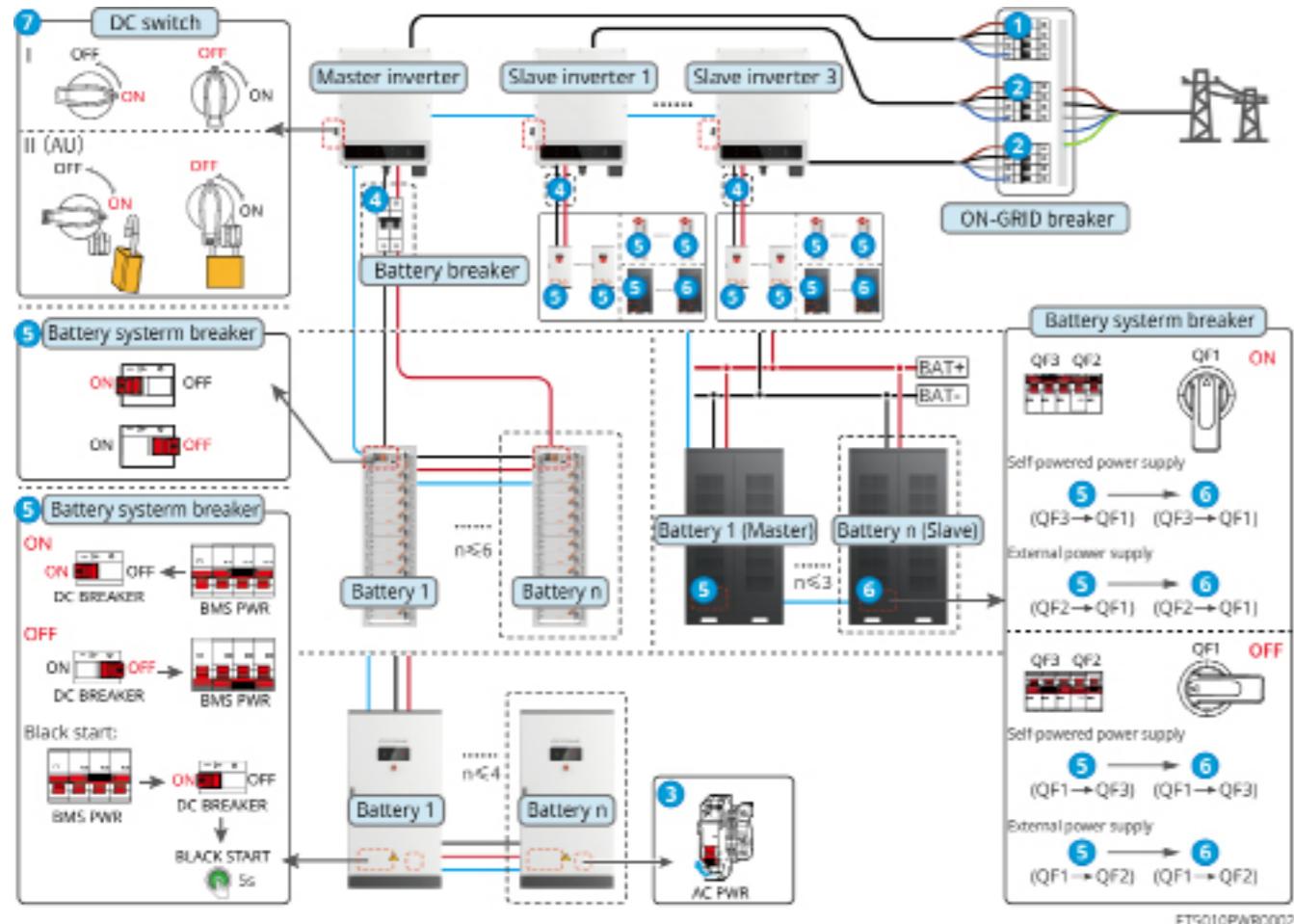
4 Optional in compliance with local laws and regulations

Power ON/OFF:

```
graph LR; 1((1)) --> 2((2)); 2 --> 3((3)); 3 --> 4((4)); 4 --> 5((5)); 5 --> 6((6)); 6 --> 7((7)); 7 --> 8((8))
```

5 Optional in compliance with local laws and regulations

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

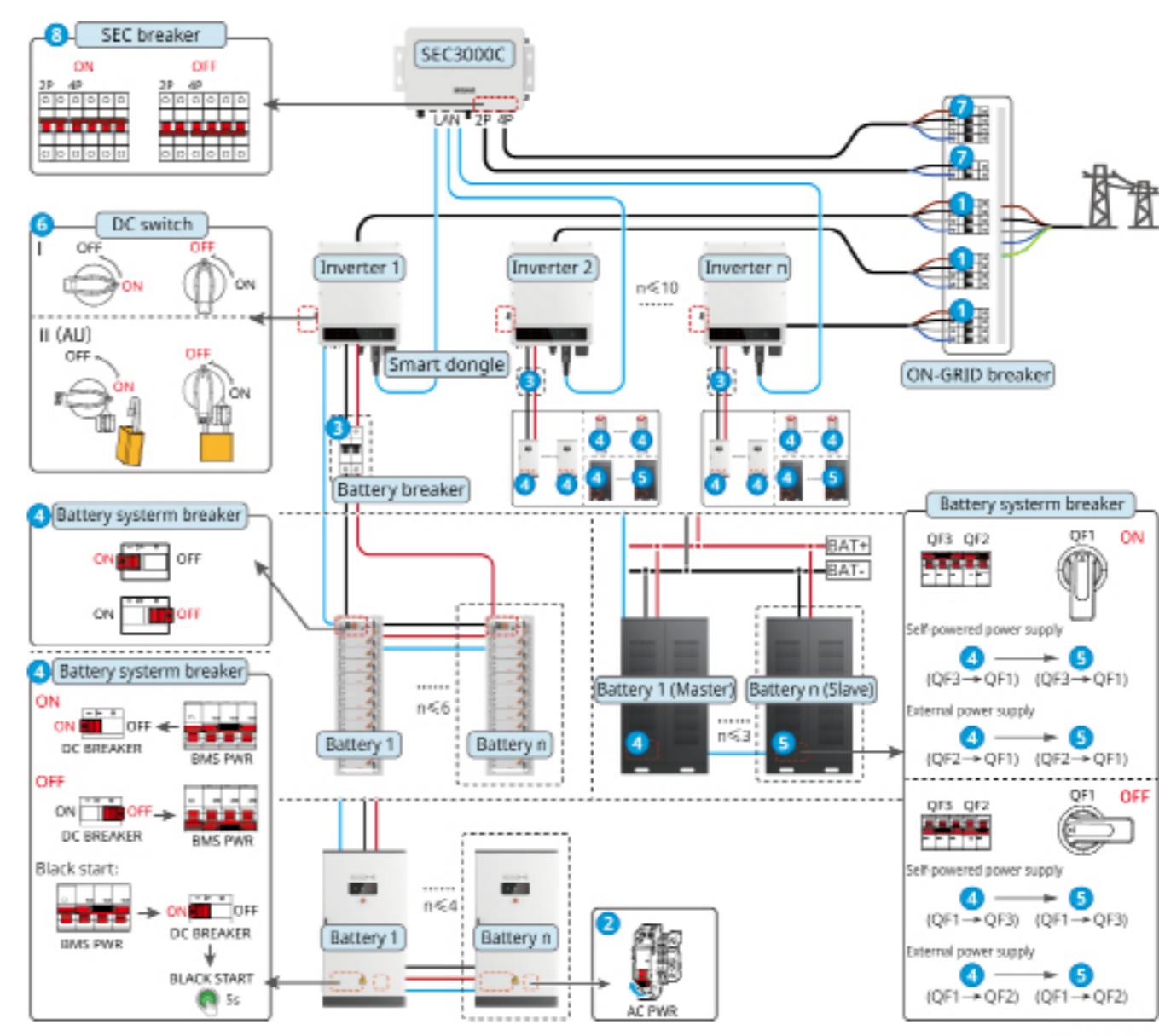


Power ON/OFF:

1 → 2 → 3 → 4 → 5 → 6 → 7

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)

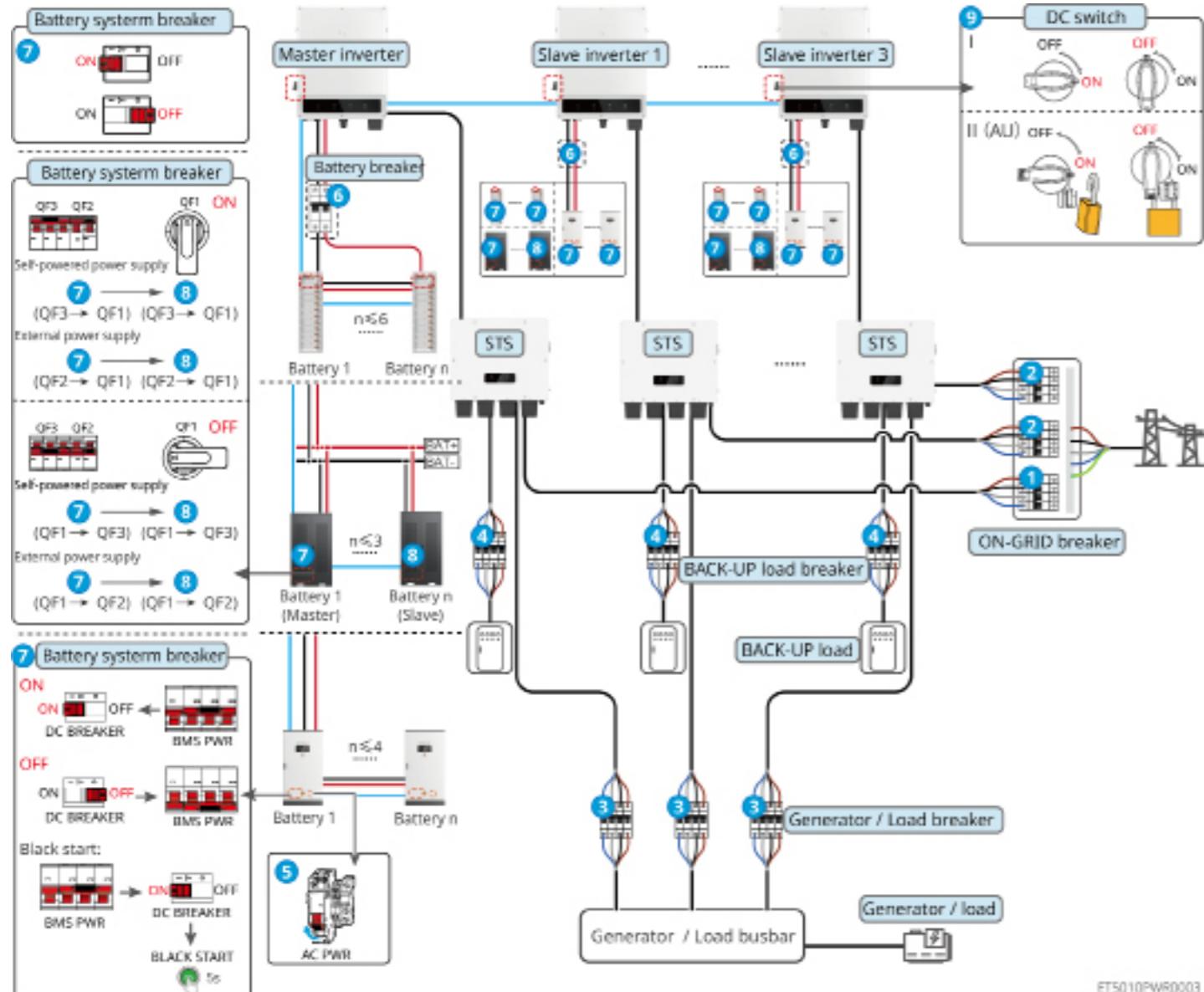


Power ON/OFF:

1 → 2 → 3 → 4 → 5 → 6 → 7 → 8

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 ≤ 4)

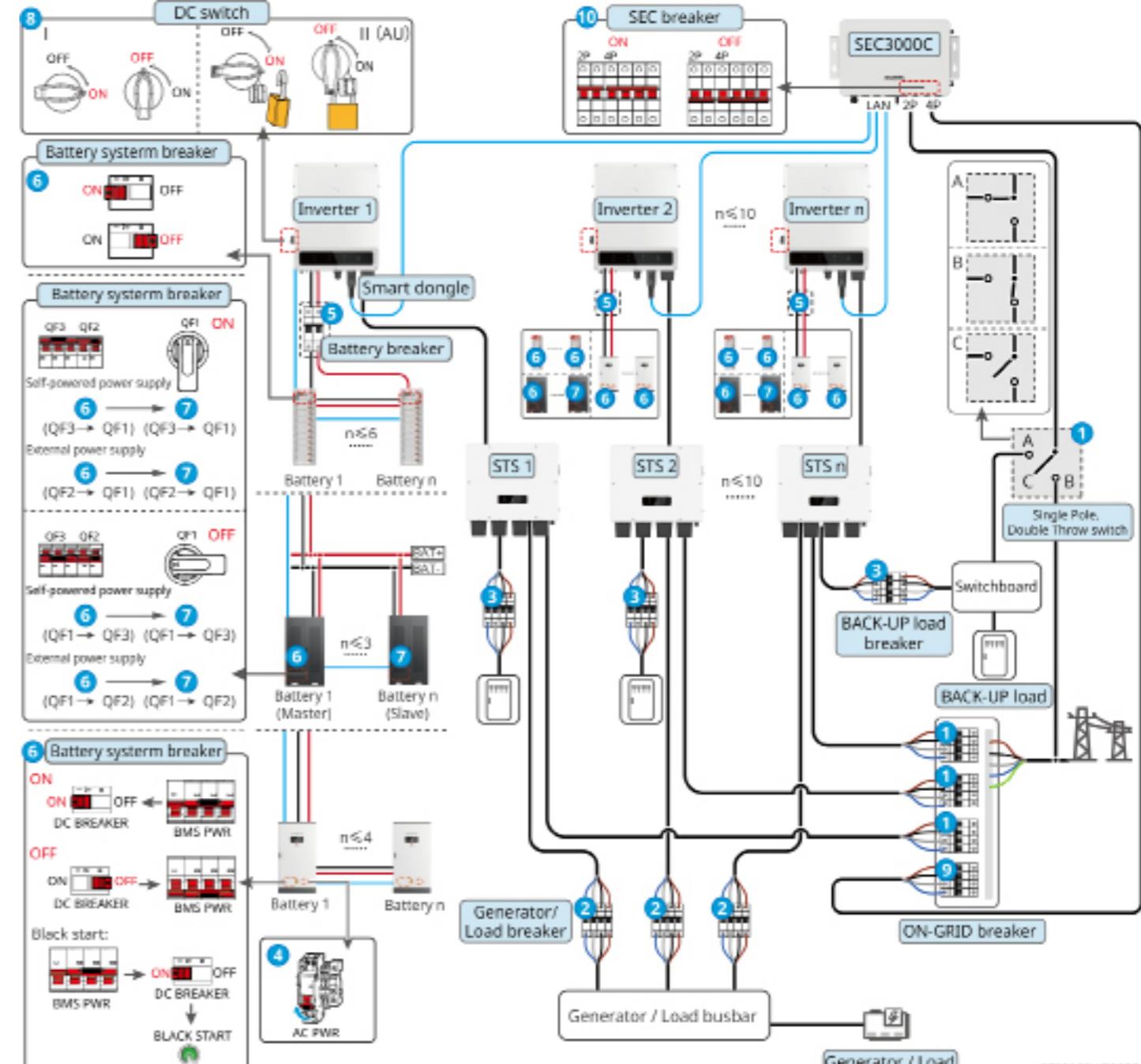


Power ON/OFF:

1 → 2 → 3 → 4 → 5 → 6 → 7 → 8 → 9

6 Optional in compliance with local laws and regulations

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

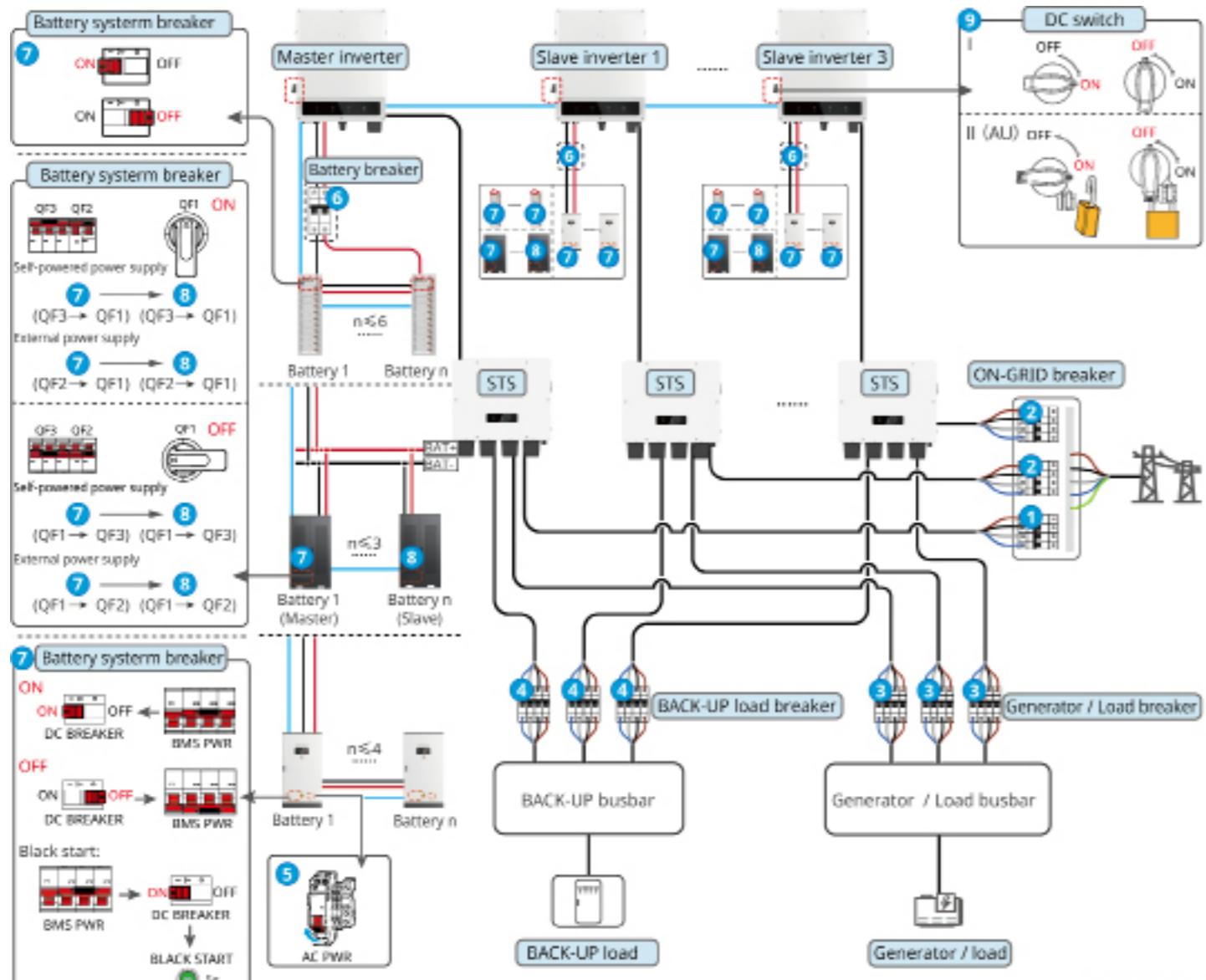


Power ON/OFF:

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

5 Optional in compliance with local laws and regulations

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

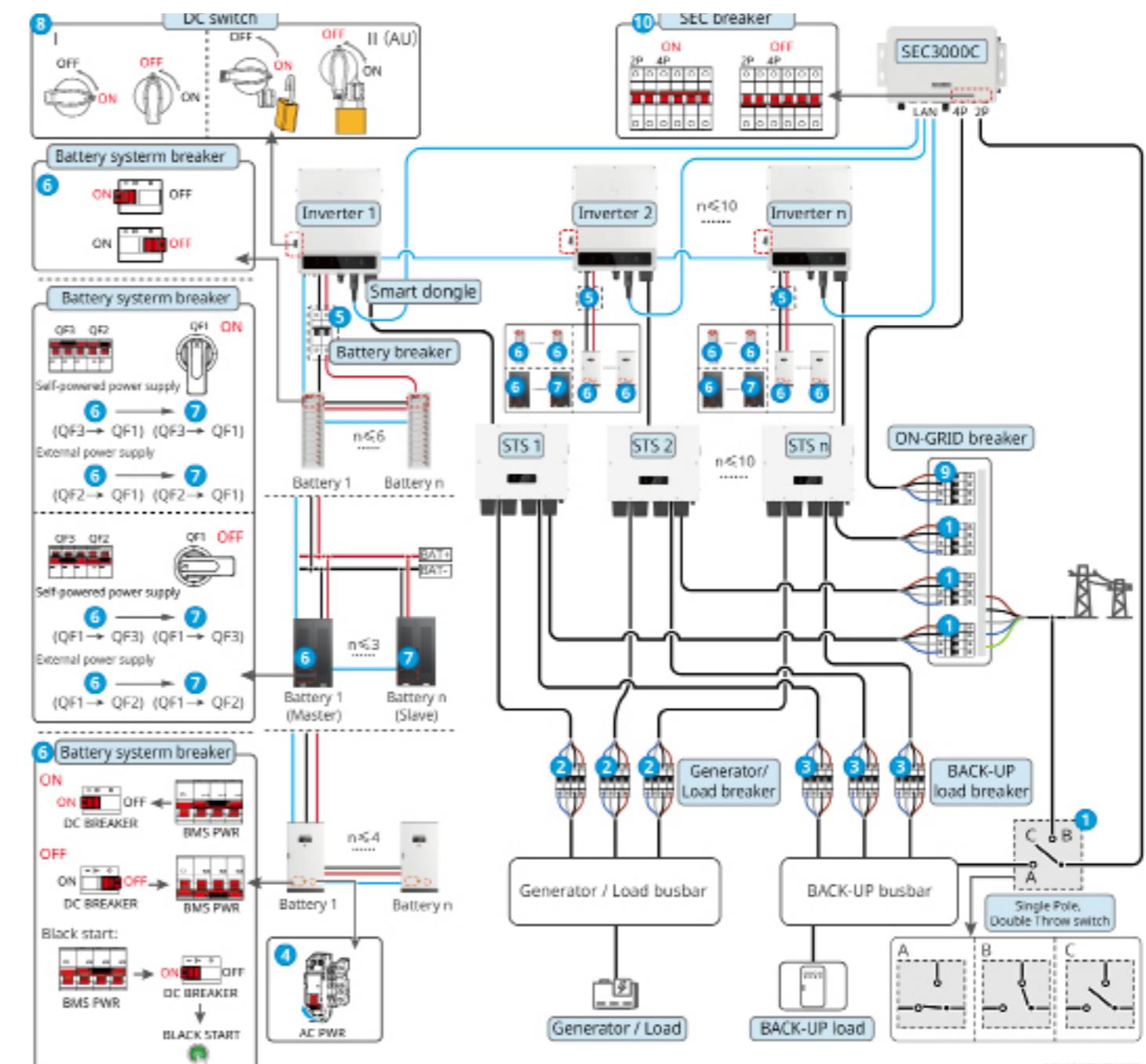


Power ON/OFF:

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)

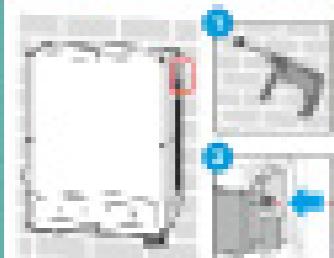
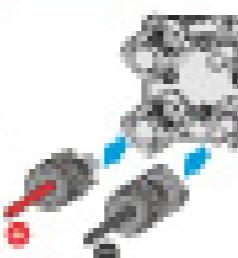
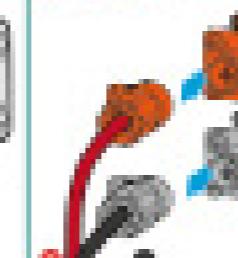
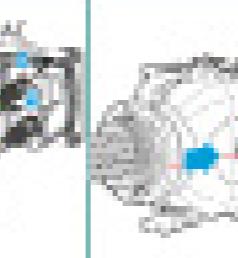
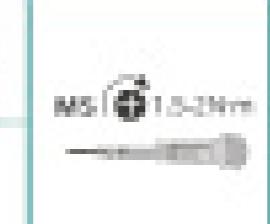
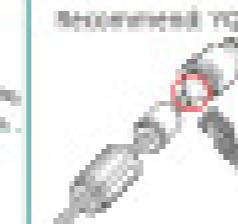
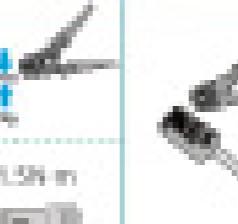
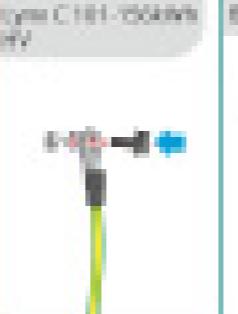
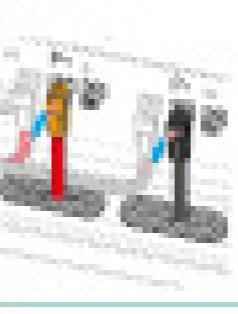
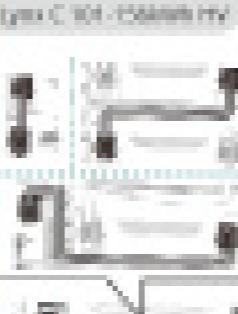
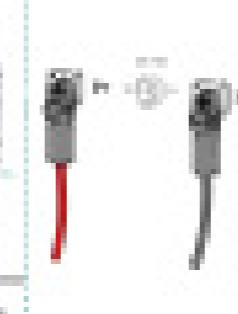
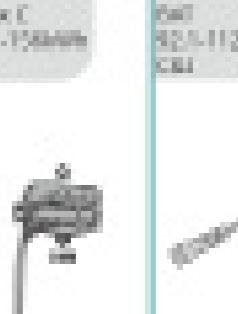
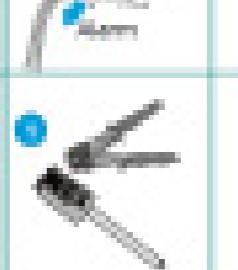
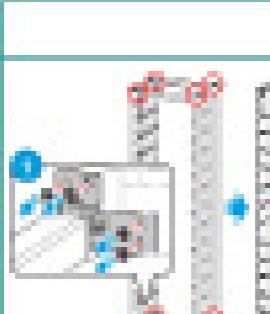
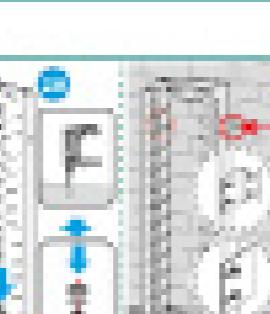
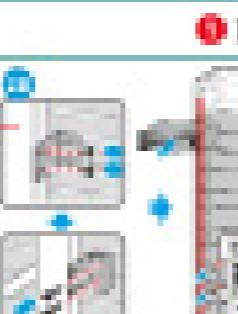
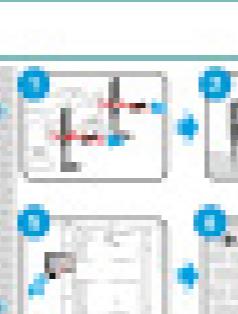
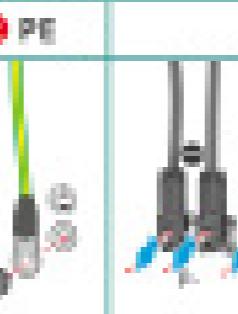
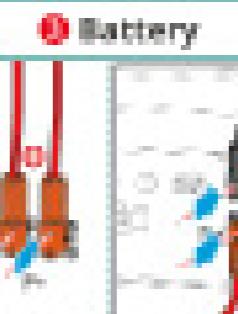
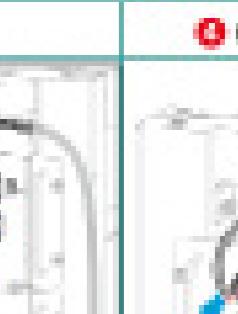
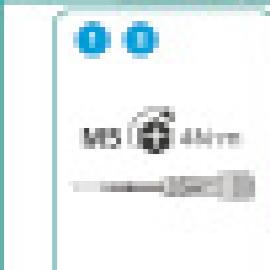
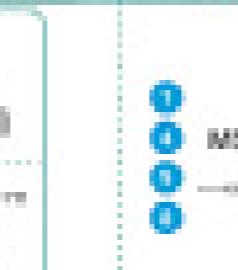
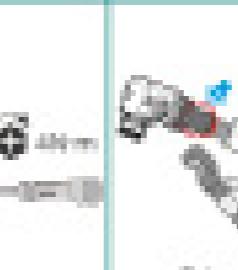


Power ON/OFF:

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							
Tools	 	 		 	 		 
Steps	① Installation	② PE	③ PV	④ Battery	⑤ AC	⑥ COM	⑦ Communication module
Battery	 	 		 	 	 	
Tools	 	 		 	 		 
Steps	① Installation	② PE	③ PV	④ Battery	⑤ AC	⑥ COM	⑦ Communication module
Battery	 		 	 	 	 	
Tools	 	 		 	 		 

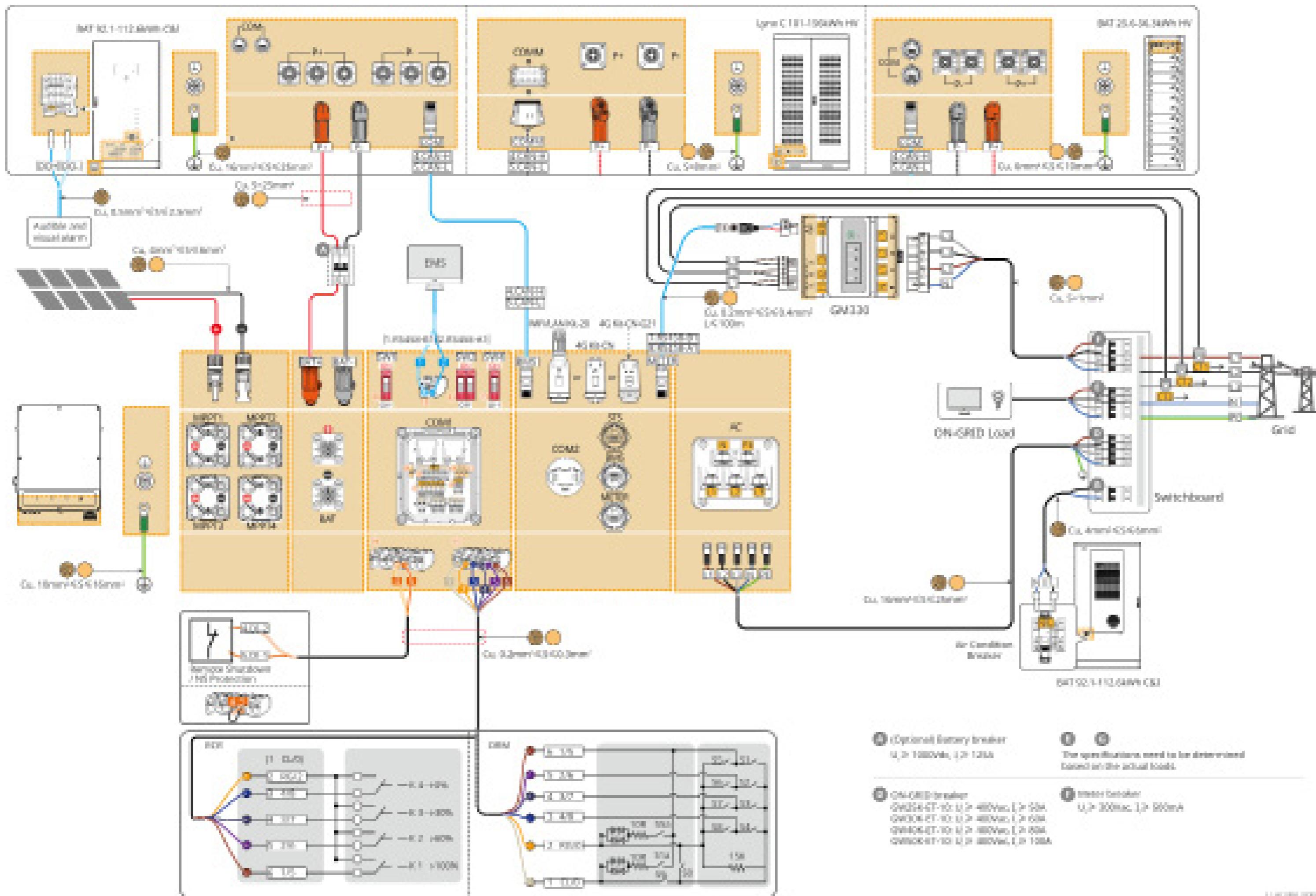
Steps	① Installation	② PE	③ AC	④ CT	⑤ COM	⑥ ETH	⑦ 4G	⑧ DO/DI/AI/PT
Controller SEC3000C								
Tools		MS 1.5-2N·m	M7 2-2.5N·m	0.5N·m				M2 0.5N·m

Steps	① Installation	② PE	③ AC	④ COM	Steps	① Installation	② Cable Connections	③ Power	④ Commissioning
STS					Smart meter GM330				
Tools		MS 1.5-2N·m	M8 6-8N·m	M8 8-10N·m					

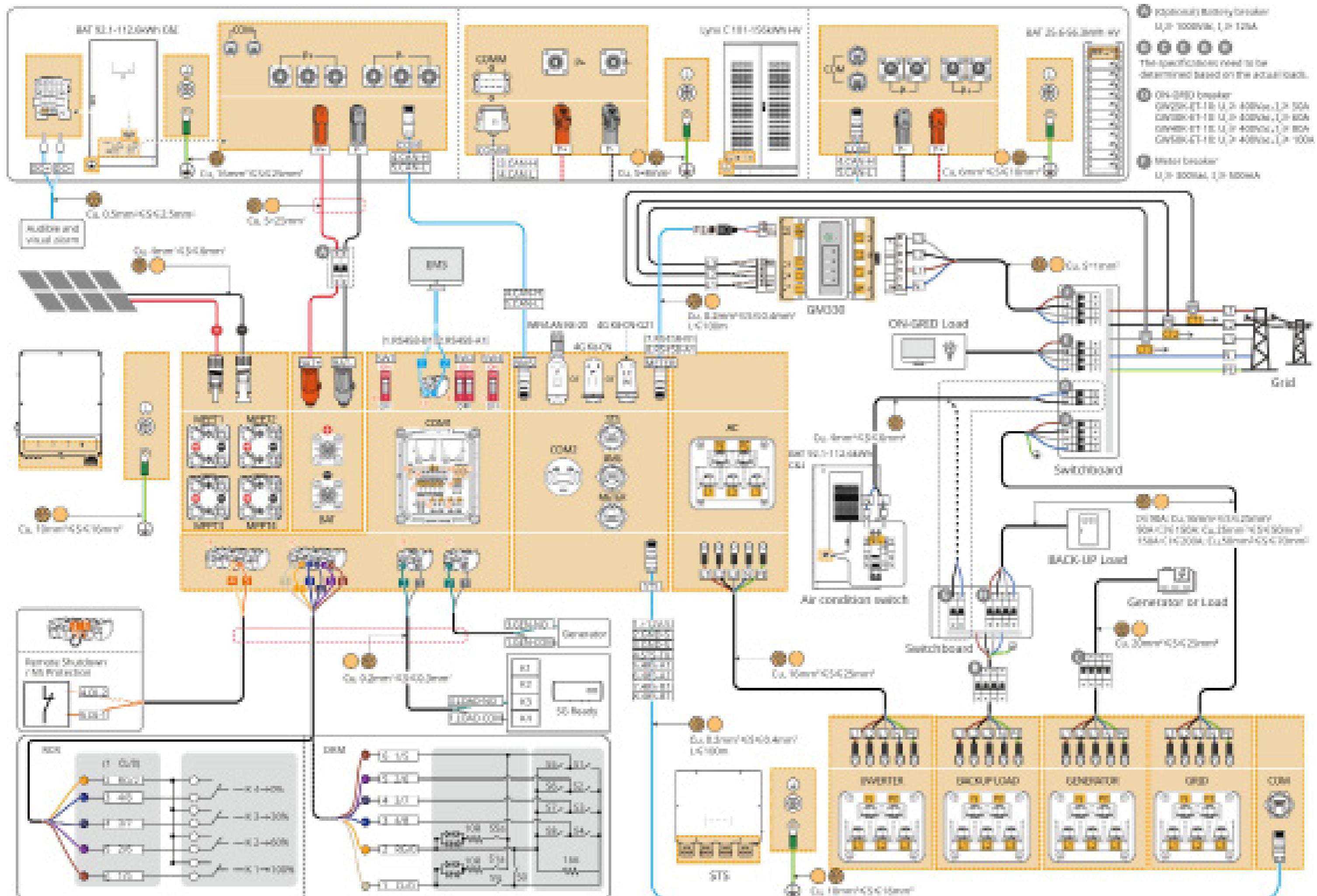
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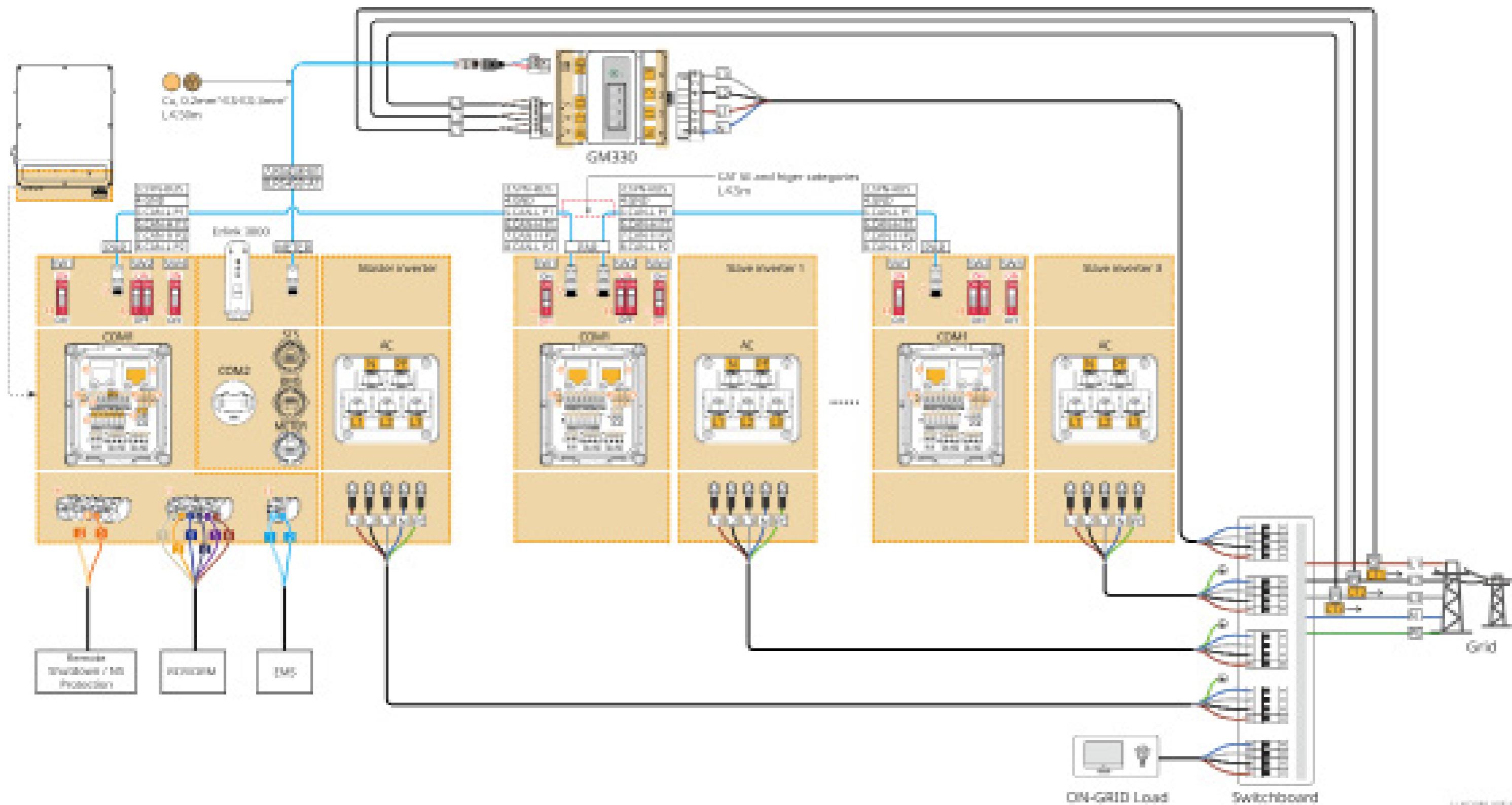
04 Wiring Diagram

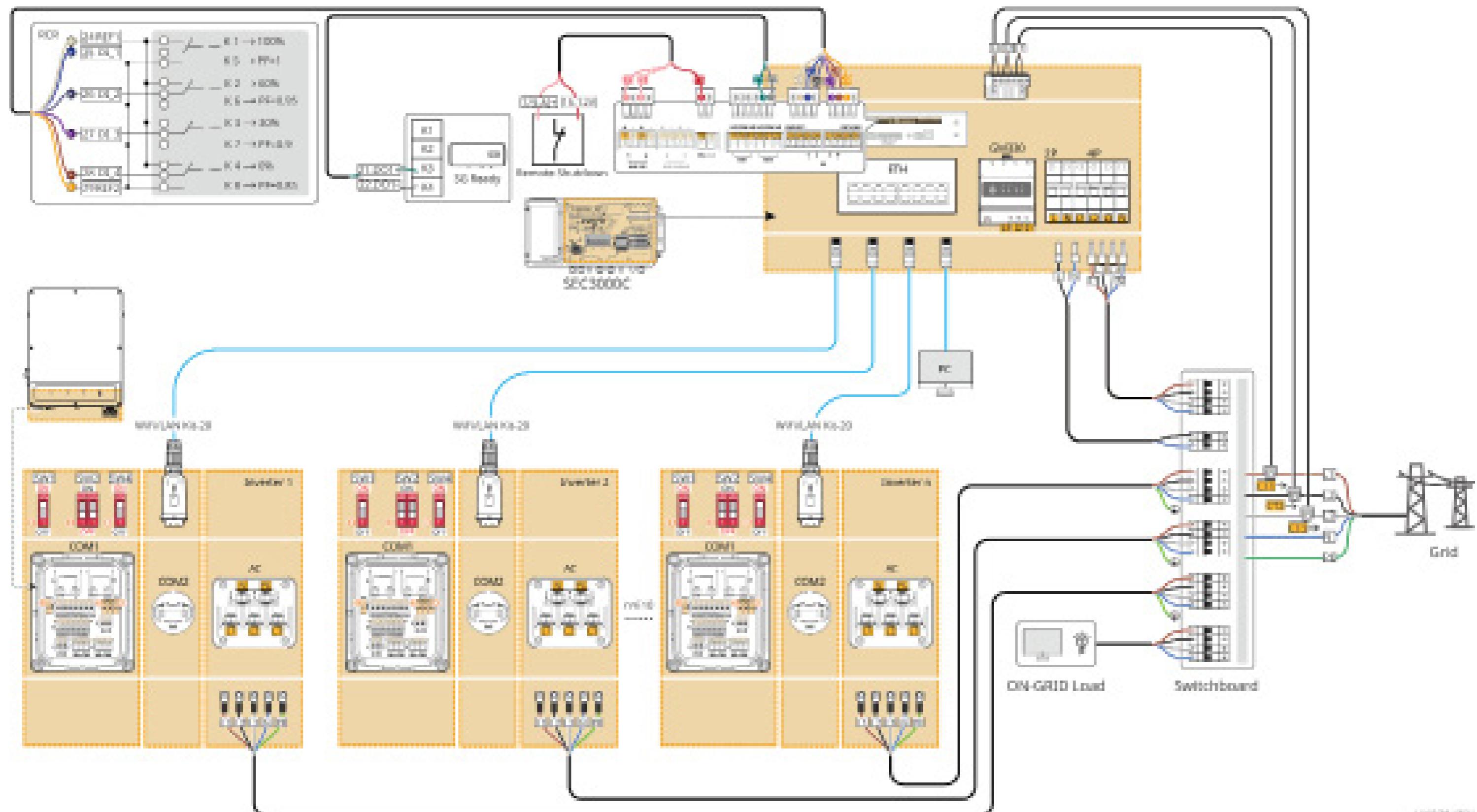
Single inverter, without BACK-UP function: Inverter + Battery + GM330



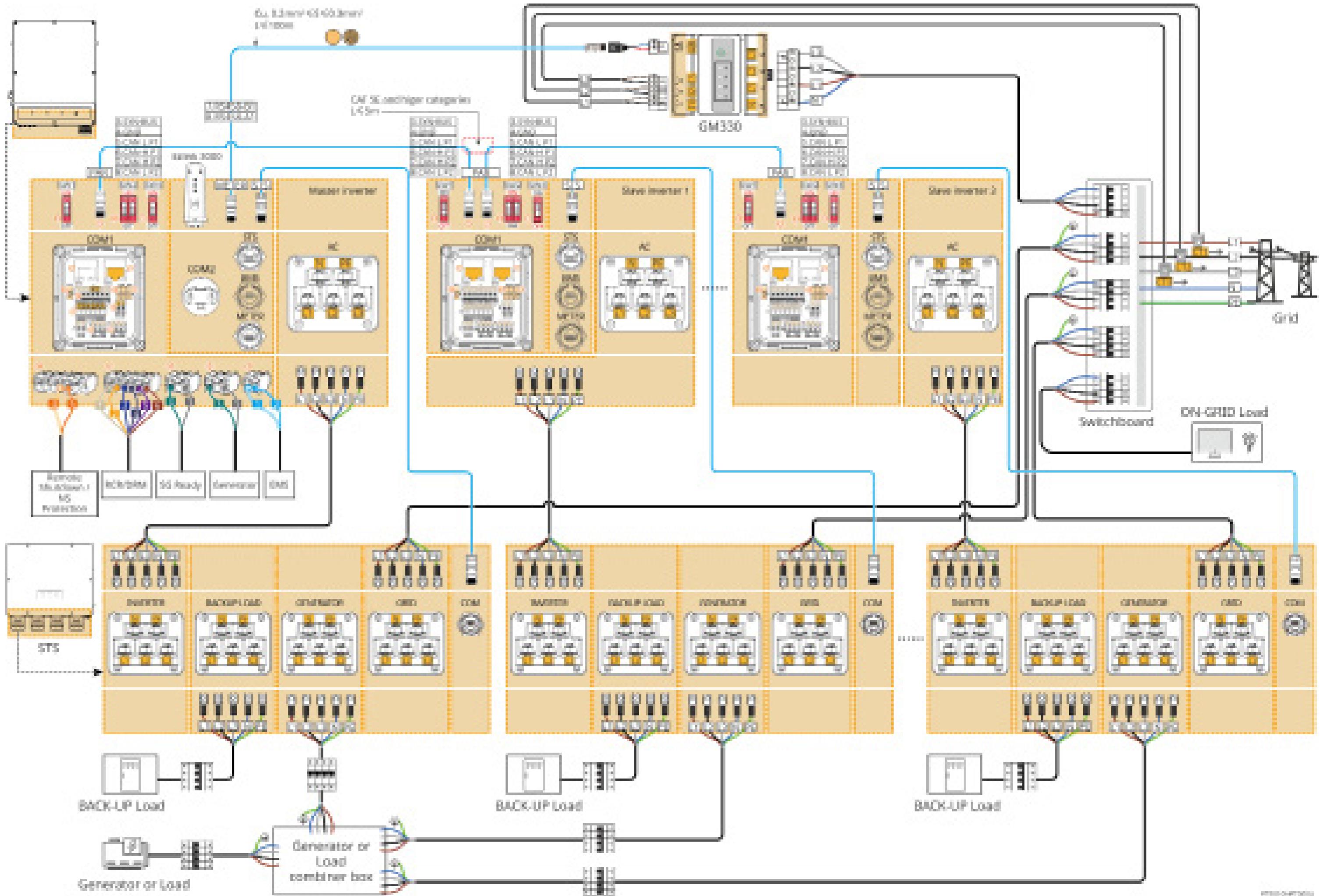
Single inverter, with BACK-UP function: Inverter + STS + Battery + GM330



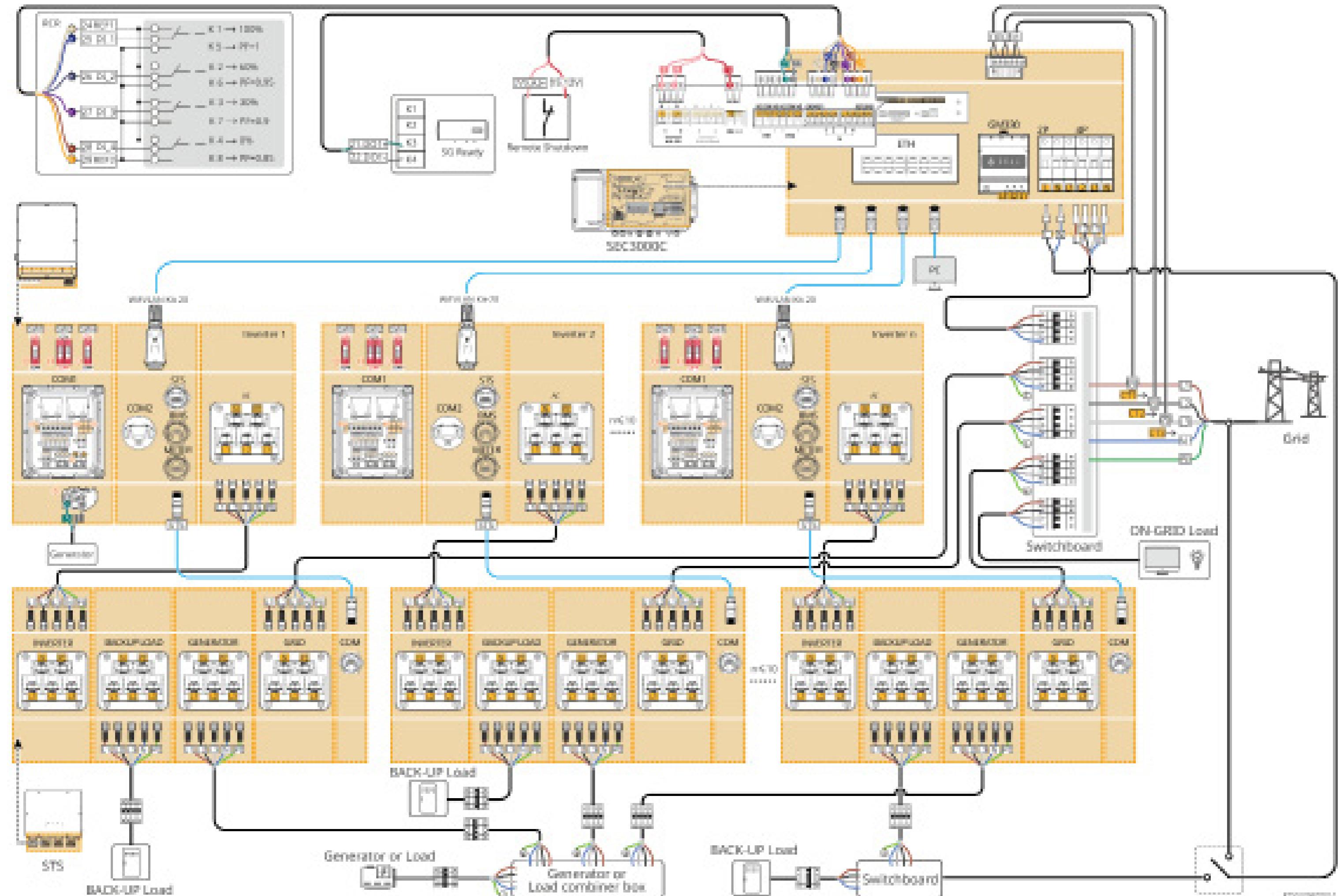




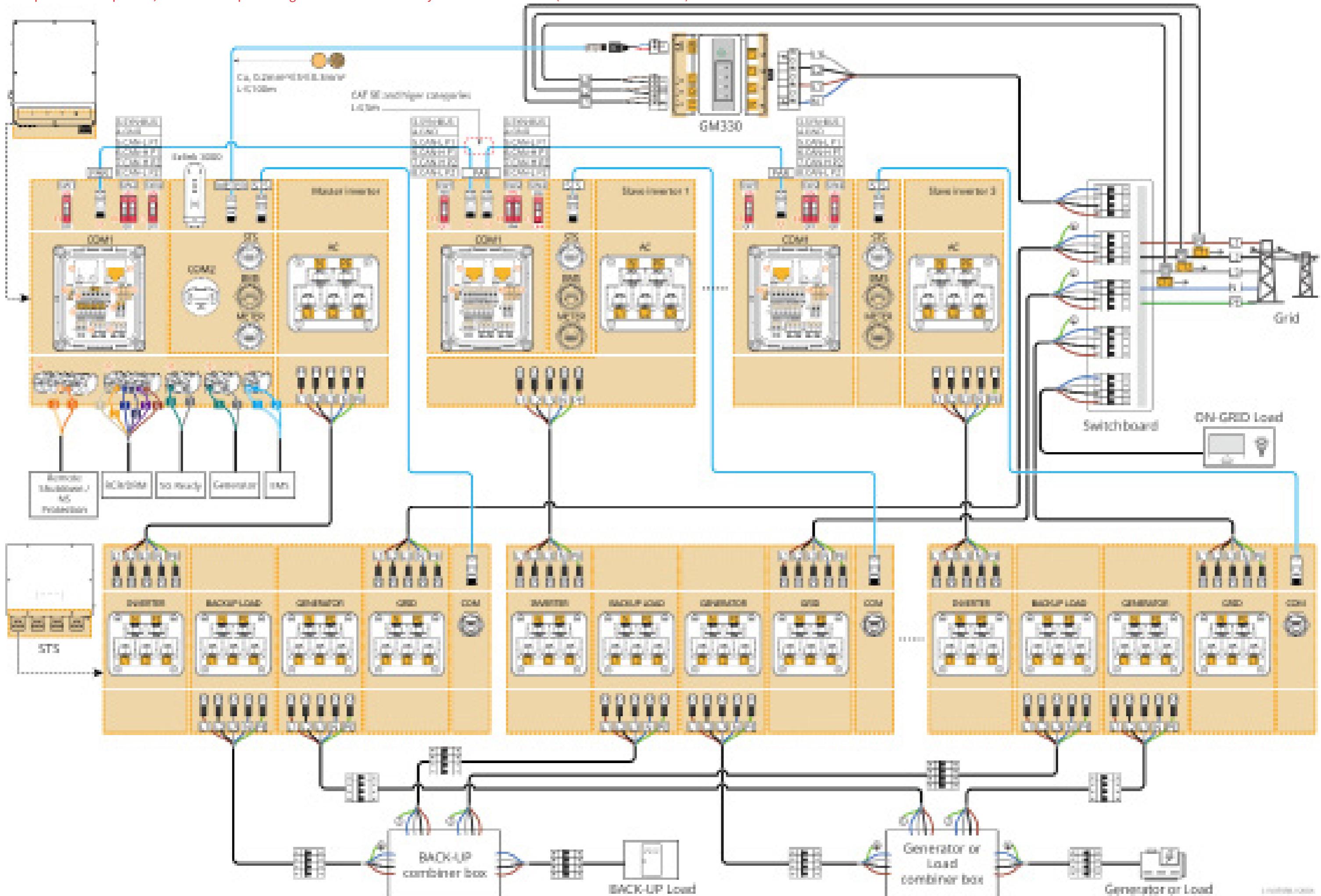
Multiple inverter in parallel, without BACK-UP paralleling: Inverters + STS + Battery + GM330 + Ezlink3000 (number of inverters ≤ 4)



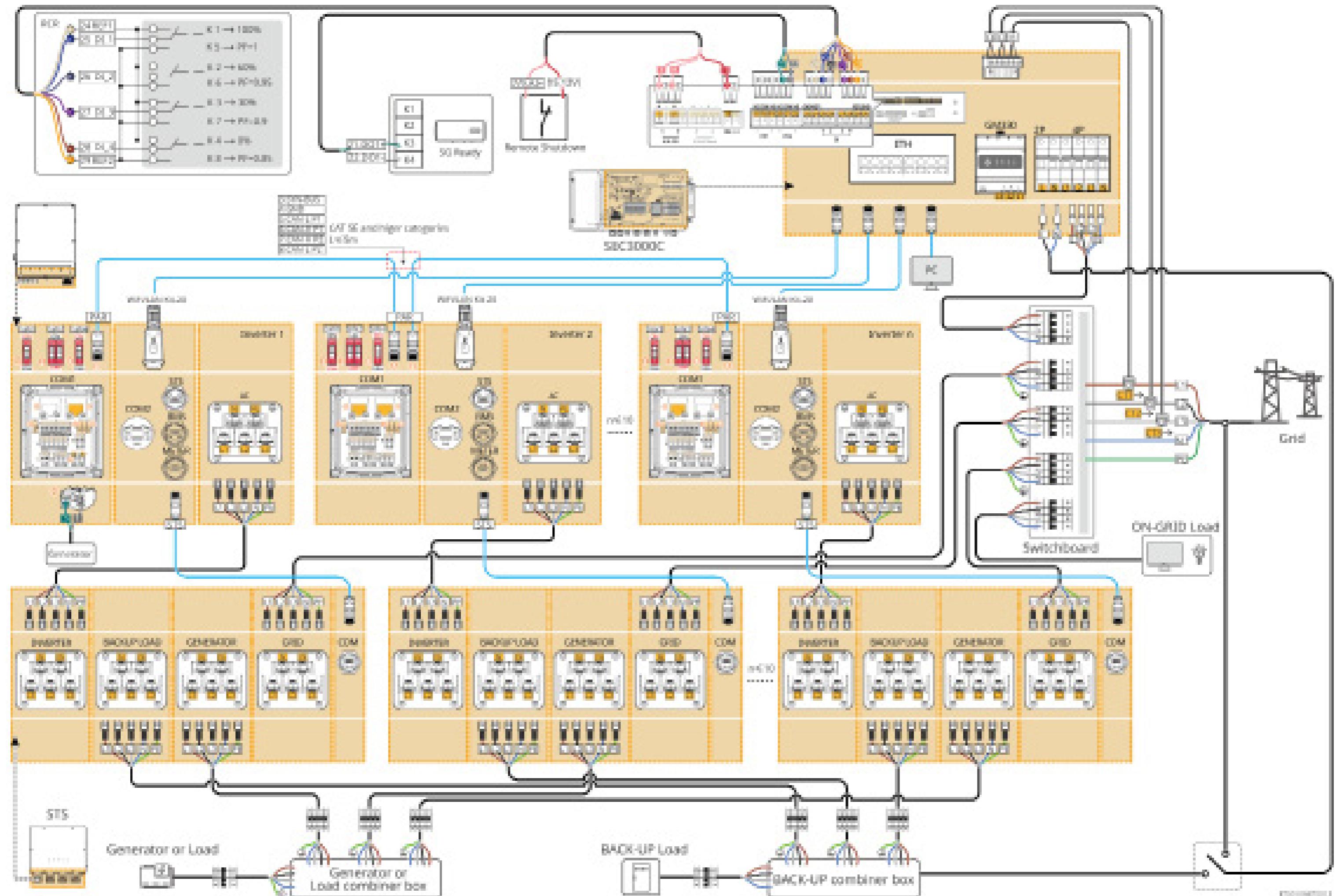
Multiple inverter in parallel, without BACK-UP paralleling: Inverters + STS + Battery + SEC3000C + WiFi/LAN Kit-20 (number of inverters ≤ 10)

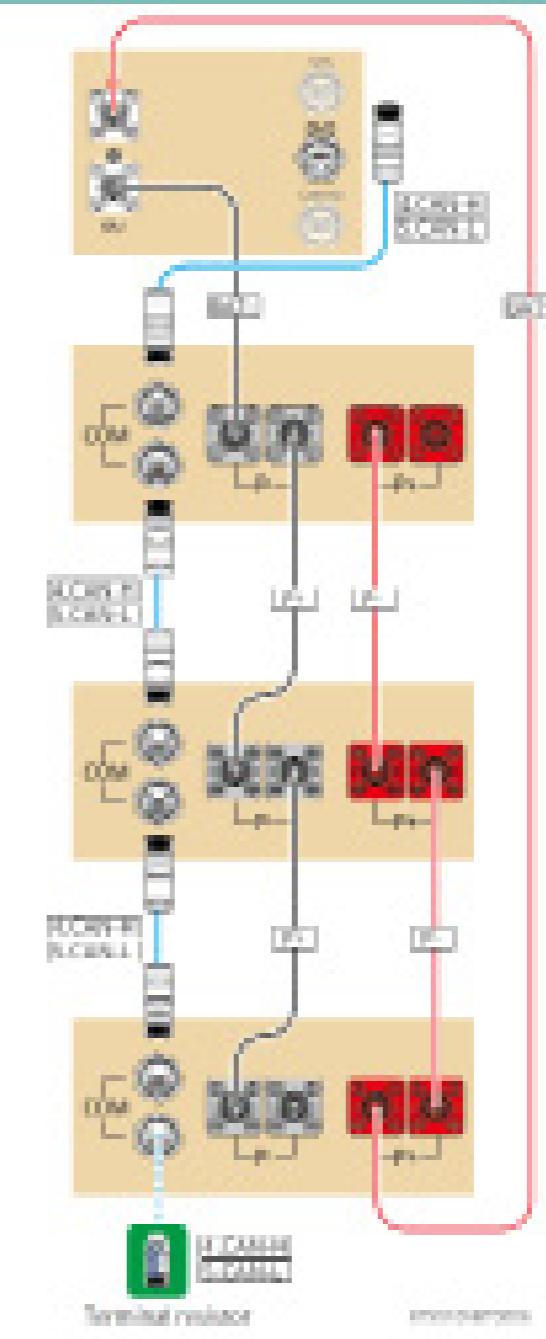
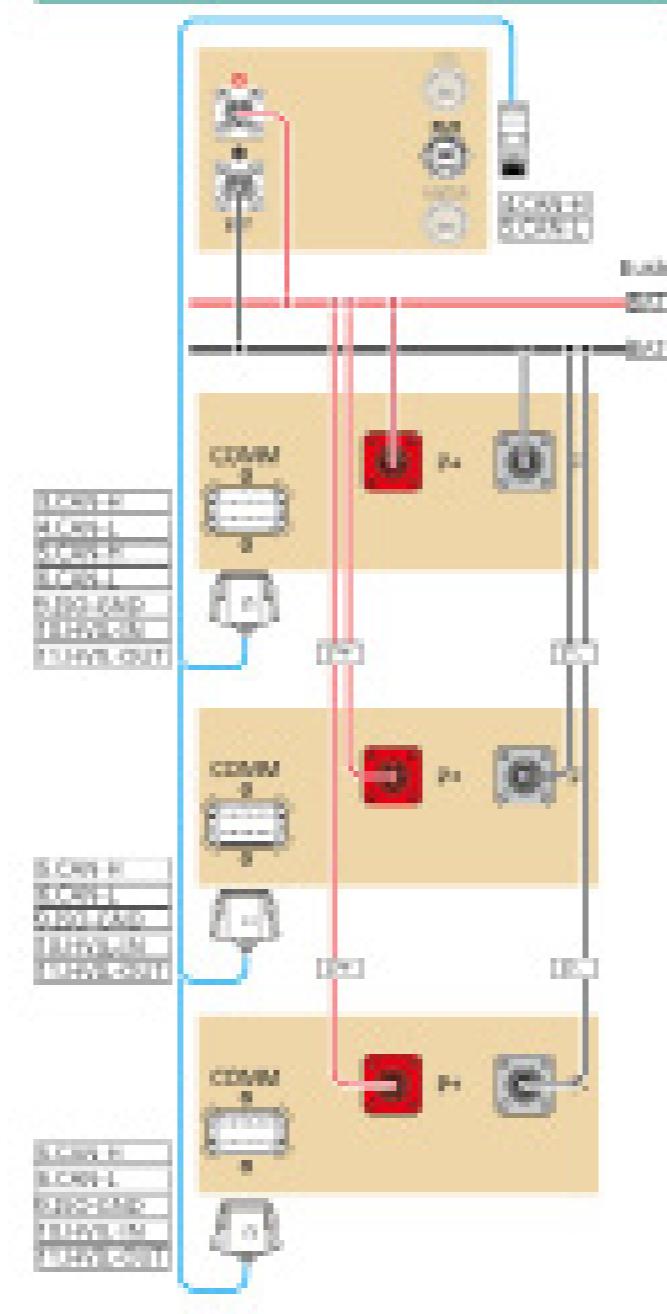
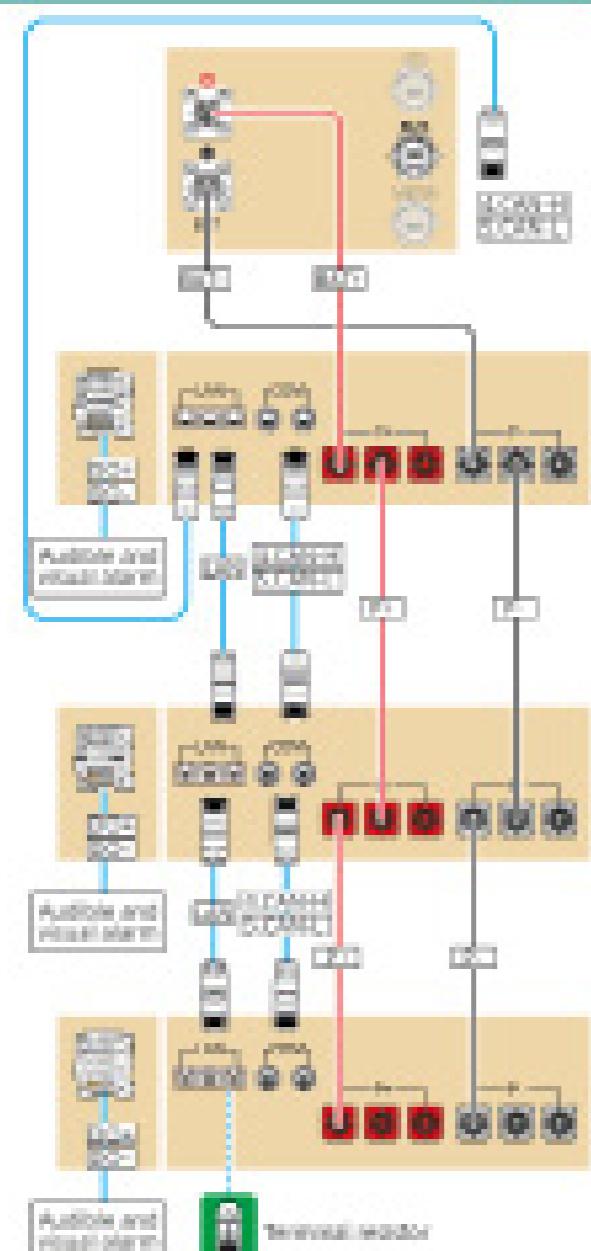
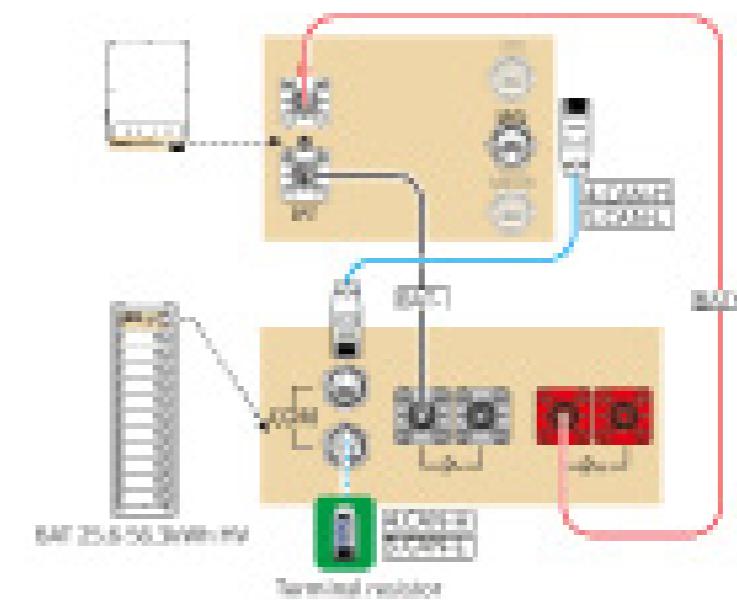
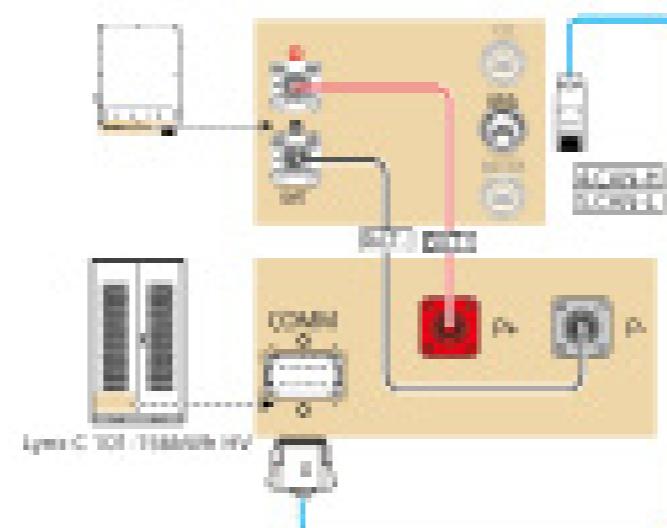
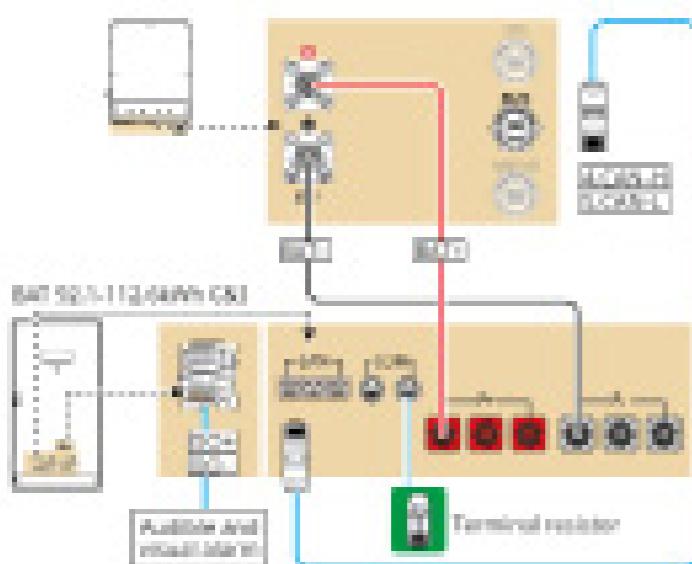


Multiple inverter in parallel, with BACK-UP paralleling: Inverters + STS + Battery + GM330 + Ezlink3000 (number of inverters ≤ 4)



Multiple inverter in parallel, with BACK-UP paralleling: Inverters + STS + Battery + GM330 + Ezlink3000 (number of inverters ≤ 10)





Current and future challenges

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

Safety Code	Export
Safety Code	Australia A
Voltage Protection Parameters:	
OV Stage1 Trip Value	115.2%Vn
OV Stage1 Trip Time	1500ms
UV Stage1 Trip Value	78.3%Vn
UV Stage1 Trip Time	10500ms
OV Stage2 Trip Value	119.6%Vn
OV Stage2 Trip Time	120ms
UV Stage2 Trip Value	30.4%Vn
UV Stage2 Trip Time	1500ms
OV Stage3 Trip Value	0.0%Vn

Exit PREV Next

Safety Code	Save
America	
Australia	
Europe	
Oceania	
Asia	✓
Africa	
Others	

Exit PREV Next

Setting Inverter Quantity (Only For Parallel Connections)

Quantity Settings	
Number Of Inverters	1 2 Tower ✓
Enter at least 2 units	

Exit PREV Next

Setting the BAT Connect Mode

BAT Connect Mode	
Battery Connect Setting	✓
No Battery	

Exit PREV Next

Select Battery Model	
Selected Battery	
Manufacturer:--	
Series:--	
Model:--	
GoodWe	
Lynx Home D Series*N	
1 Lynx C Outdoor*2	✓
Lynx C Outdoor*3	
Lynx C Indoor*2	
Lynx C Outdoor	
Lynx C Indoor*3	
LX S-H	
LX F-H*N	
If there is no available battery model, please open the mobile network and restart the app to obtain one.	

Exit PREV Next

Setting the Working Mode

Peak Shaving	Working Mode	Backup Mode	Time
Save	Save	Save	Save
Reserved SOC for Peak Shaving	Self-use Mode	Charging Power From Grid	Time
Range[0,100]%	Backup Mode	ON: Photovoltaic prioritizes charging the battery. If the photovoltaic power is insufficient for charging, electricity will be purchased from the grid for charging. Nighttime charging is not supported.	Start Time
Peak Power Purchase Limit	TOU Mode	Charging Power	End Time
Range[0,655]kW	Off-grid Mode	Range[0,100]%	Repetition (Requires both monthly and weekly repetition to take effect)
Time For Charging From Grid	Peak Shaving	Peak power of buying electricity for charging, percentage of inverter power	Month-Repeat
00:00-00:00	Delayed Charging	Priority of Working Mode: Off-grid Mode>Peak Shaving>Delayed Charging>TOU Mode>Backup Mode>Self-use Mode	Week-Repeat

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.

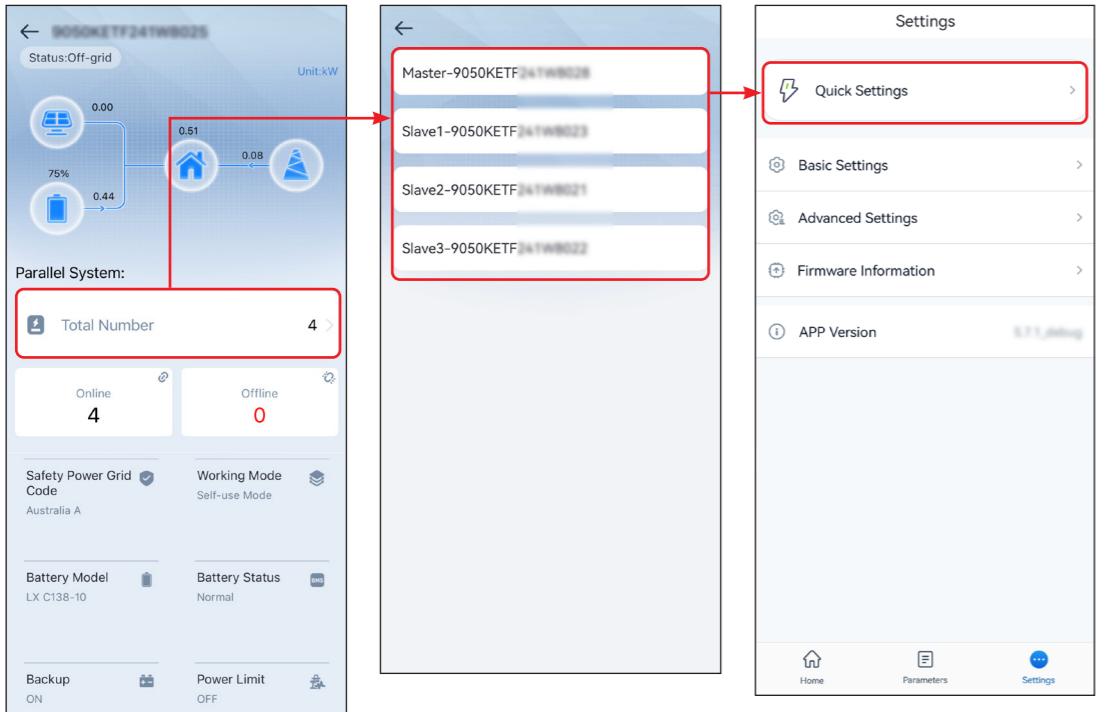
Wiring Method	Save
System Mode	
Device Stand-Alone Working	
The current device is only for standalone use, select this option	
Multiple Device Parallel Working	✓
The current device has already formed a parallel system or will form a parallel system. Select this option	
Please select the communication module of the parallel system	
Ezlink3000	
SEC3000C	
Please select the wiring method for the parallel system	
STS-Backup Port Parallel Connect	✓
Ezlink3000 STS BACKUP Ezlink3000 STS BACKUP Ezlink3000 STS BACKUP	
STS-Backup Port Stand-alone Connect	
Ezlink3000 STS BACKUP Ezlink3000 STS BACKUP Ezlink3000 STS BACKUP	
No STS Box	
Ezlink3000	

Save

Cancel Confirm

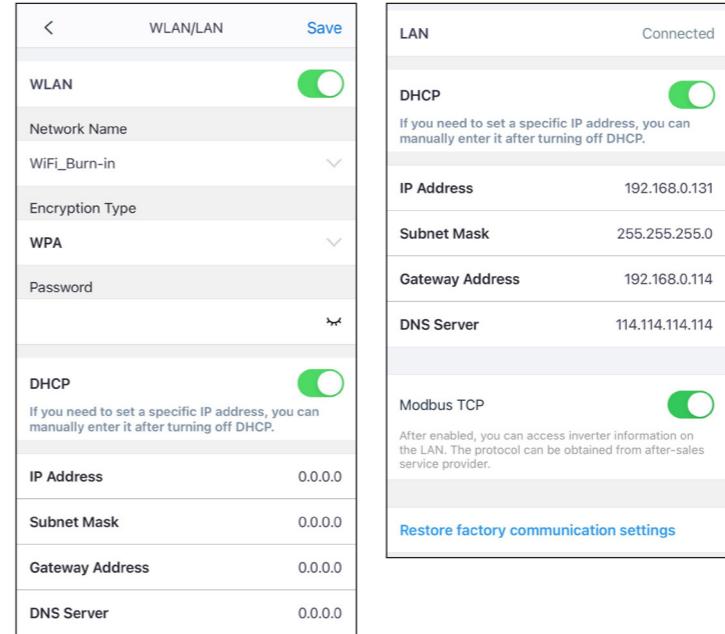
Setting Batteries Of Each Inverters (Only For Parallel Connections)

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



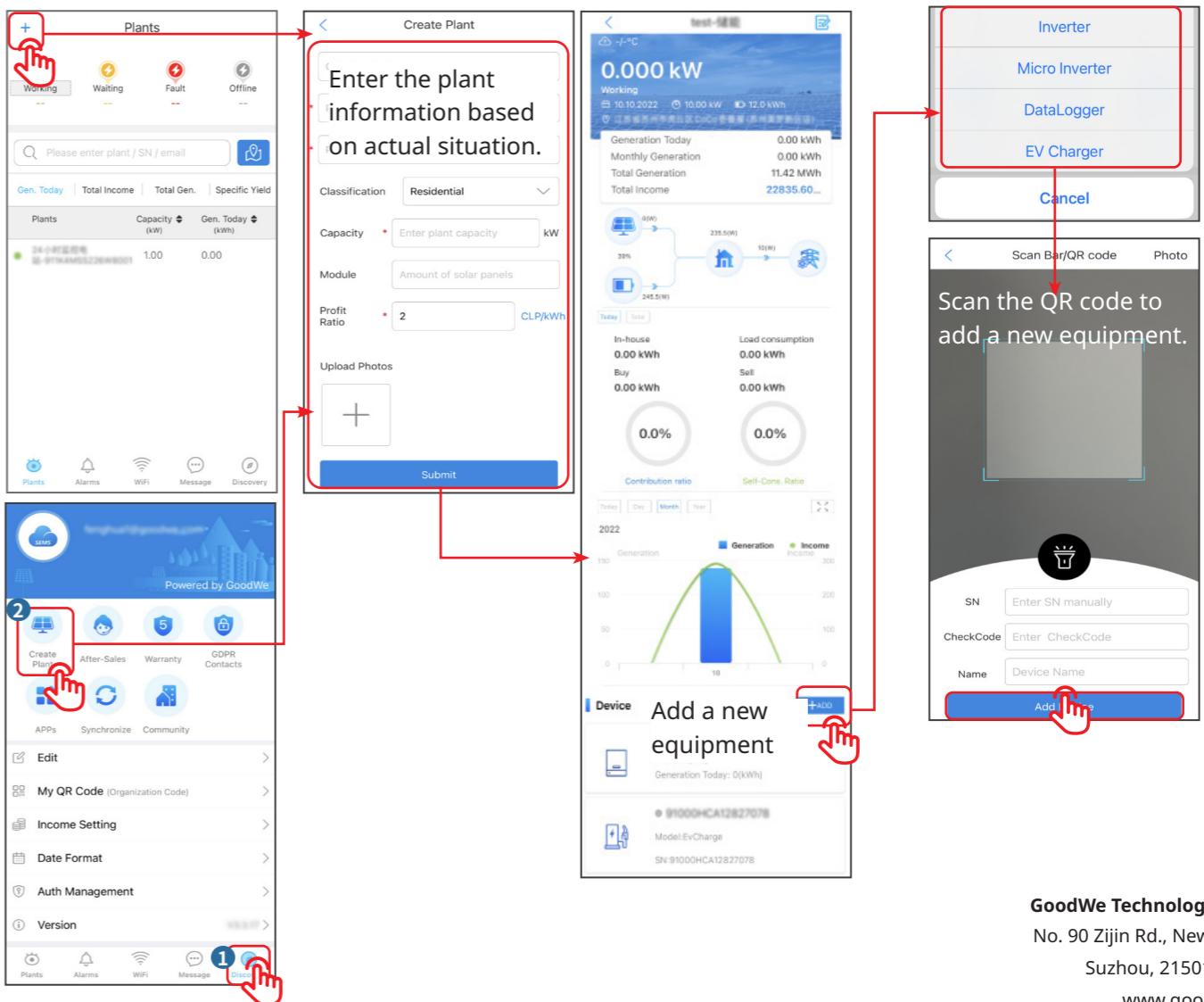
Configuring the Network

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



Creating a Power Plant

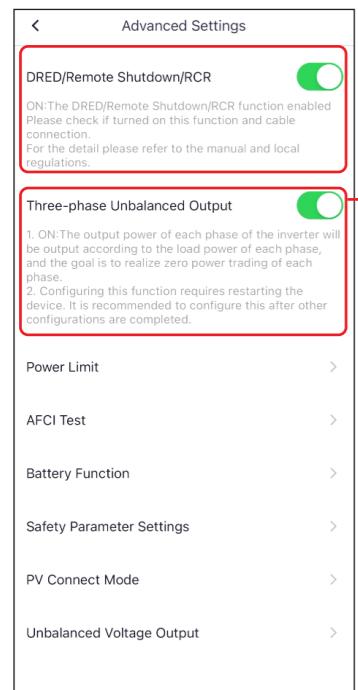
Create power plants and add equipments via SEMS Portal app.



Setting 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

