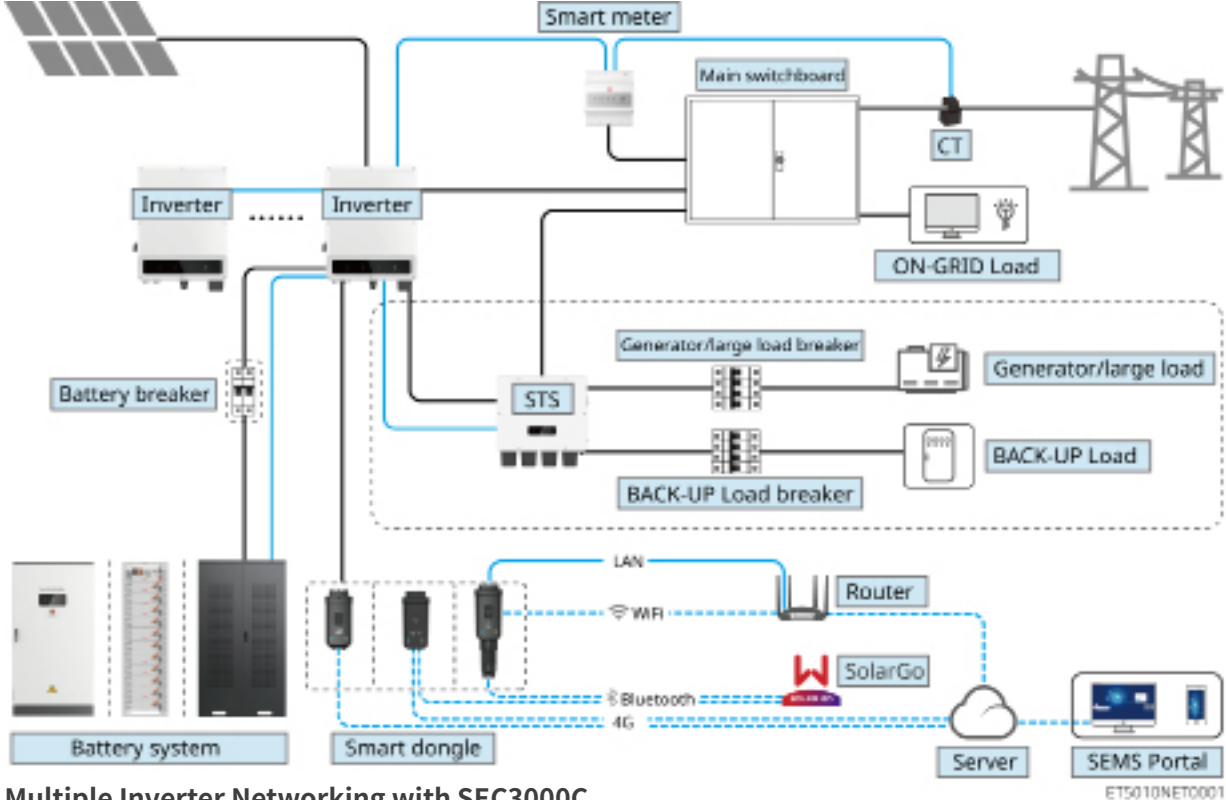


WARNING

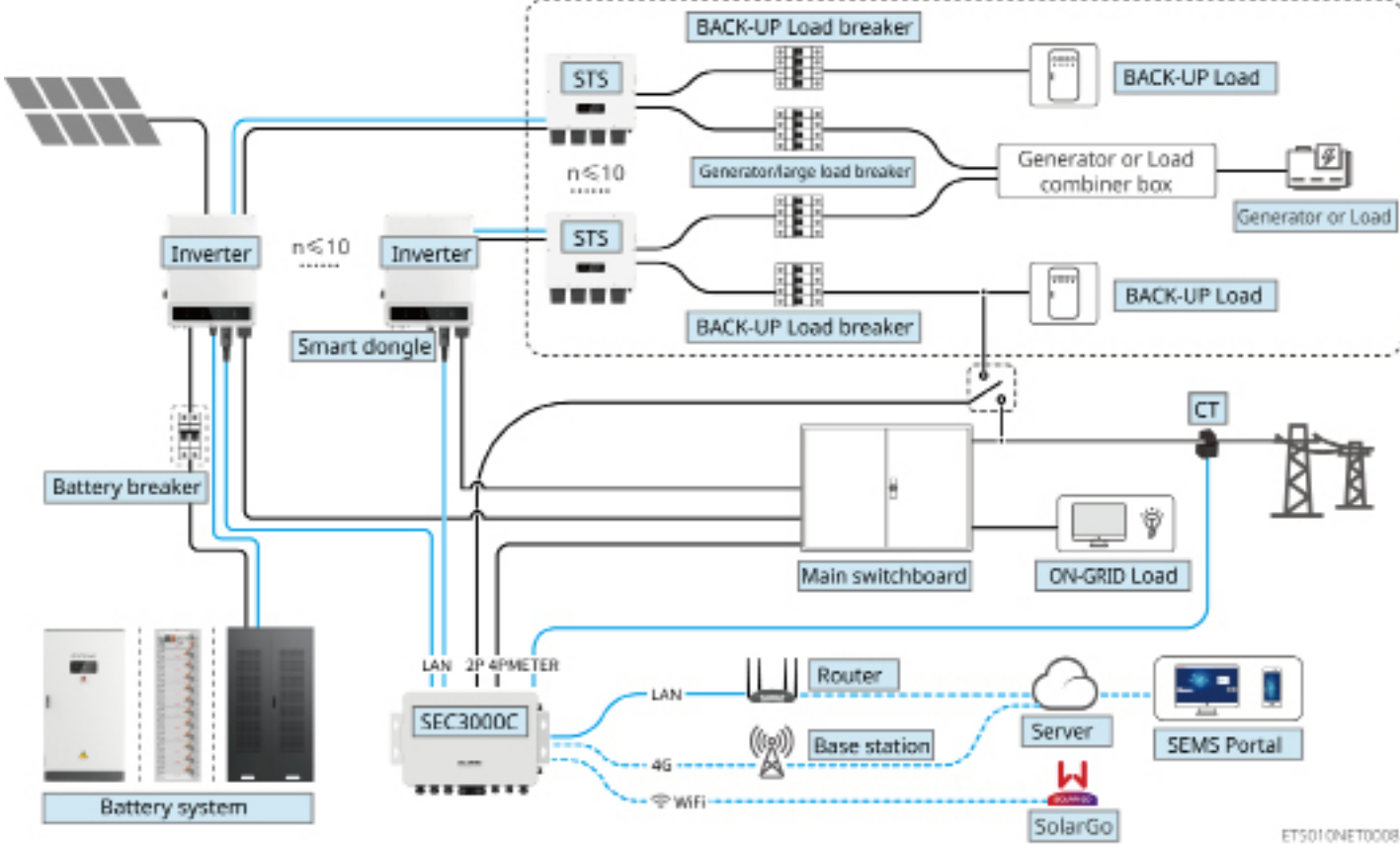
The information in this user manual is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions in the manual are for guidance only.

01 Networking

Single Inverter/Multiple Inverter Networking with Ezlink3000



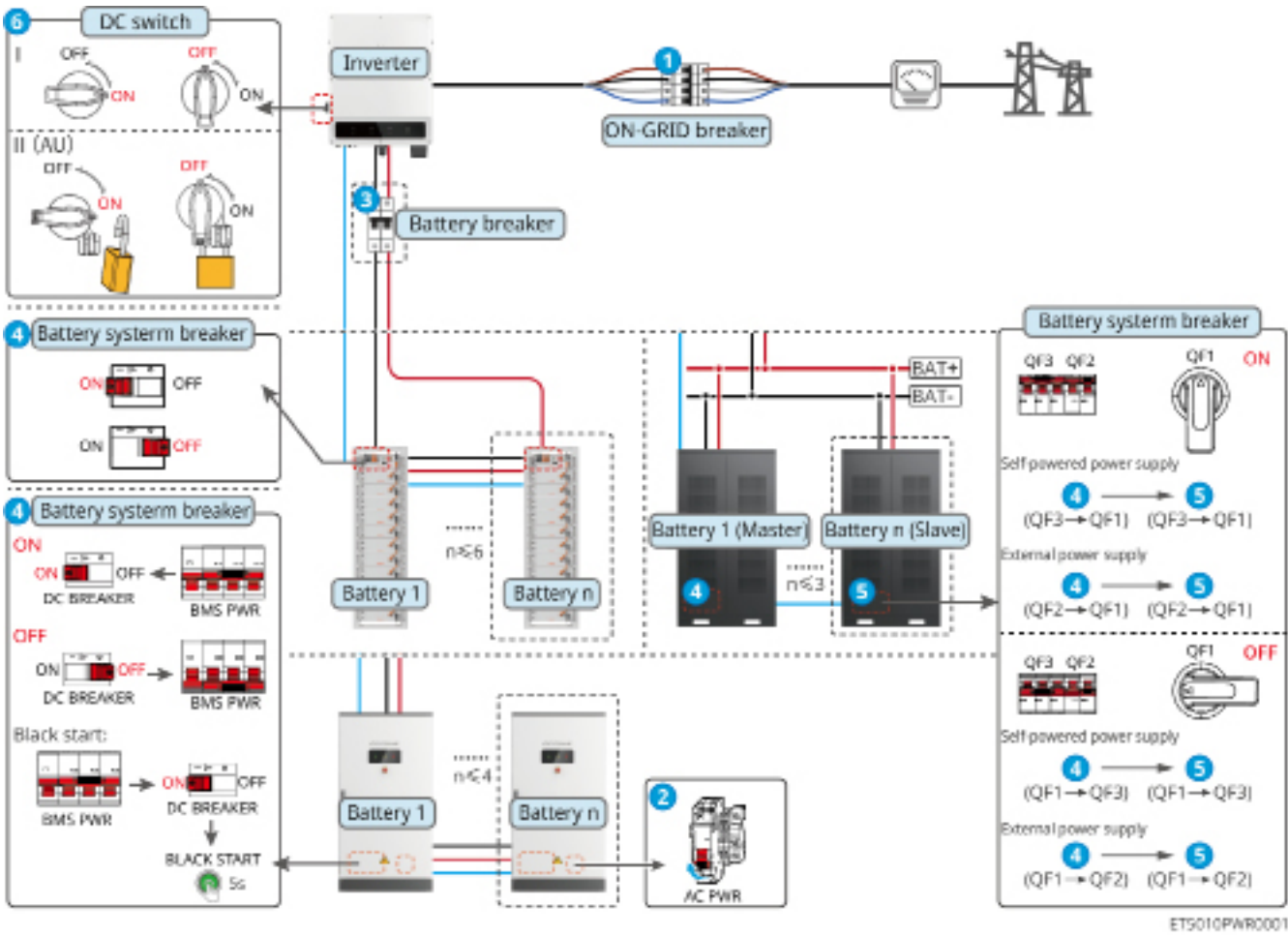
Multiple Inverter Networking with SEC3000C



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 versionsInverter software version requirements:<ul style="list-style-type: none">Inverter ARM software version is 11.475 or aboveInverter 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.
Battery system	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.
	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	<ul style="list-style-type: none">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-20Ezlink3000	<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

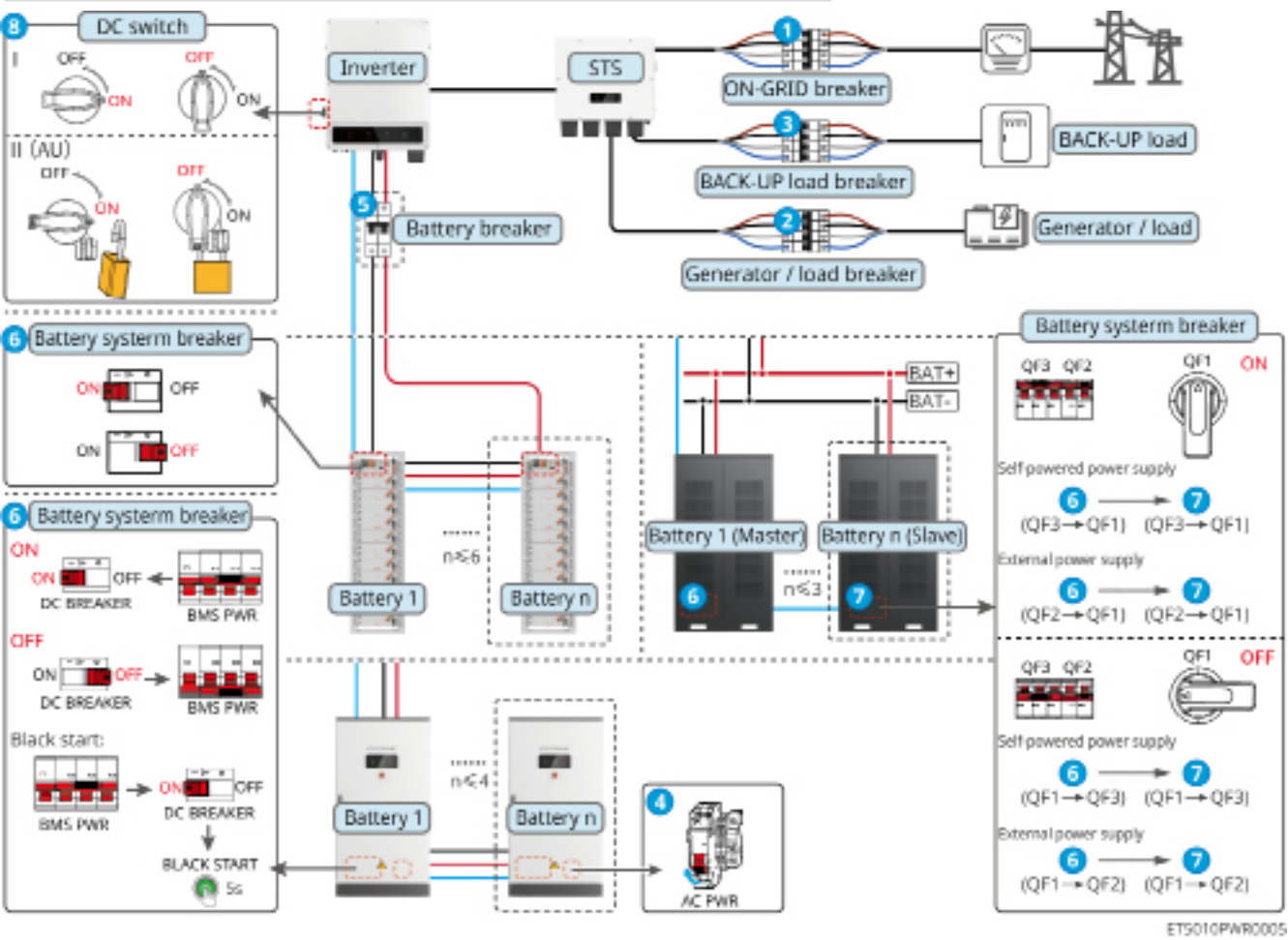


Power ON/OFF:

1 → 2 → 3 → 4 → 5 → 6

3 Optional in compliance with local laws and regulations

Single inverter, with BACK-UP function



Power ON/OFF:

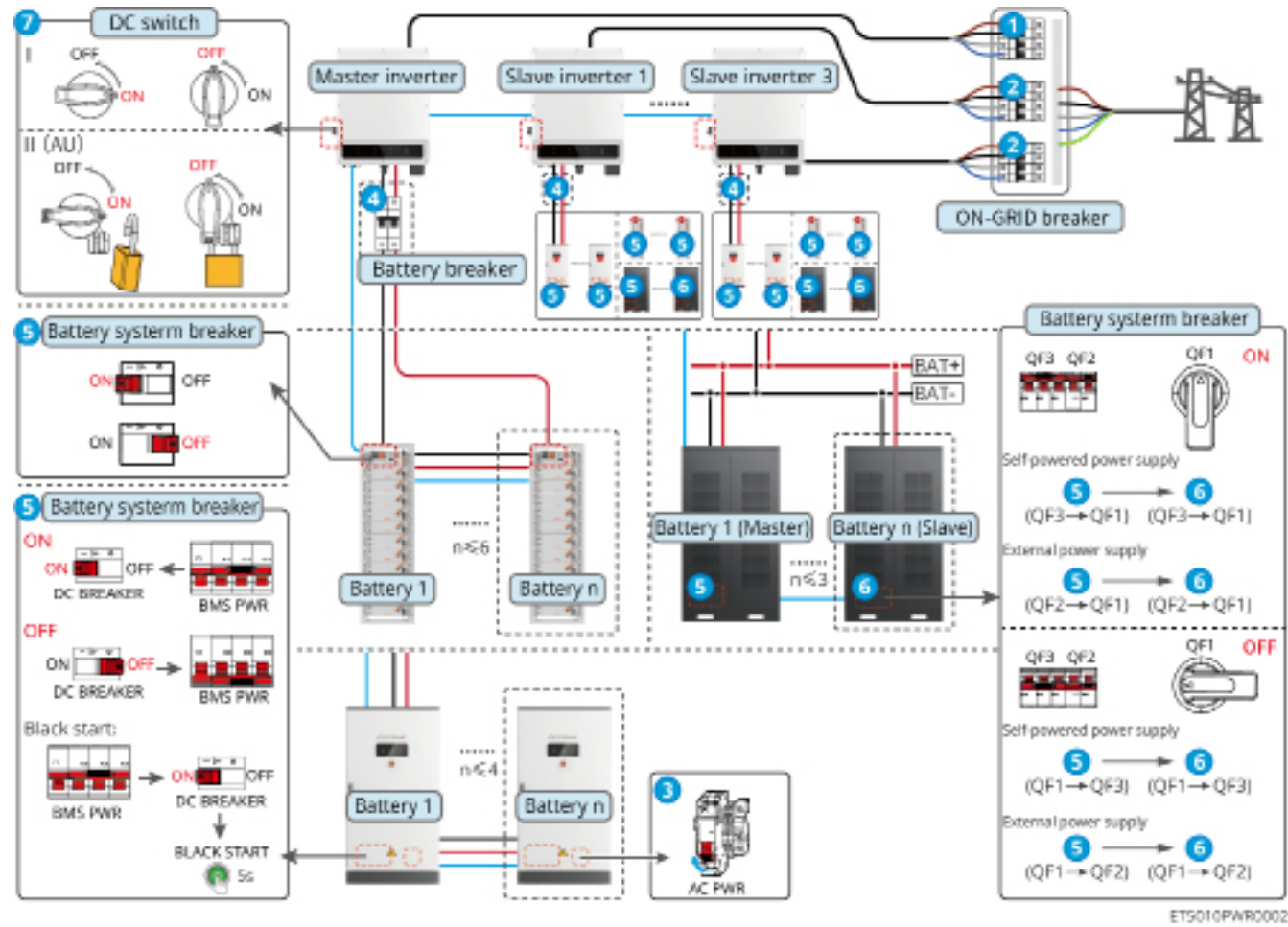
4 Optional in compliance with local laws and regulations

Power ON/OFF:

1 → 2 → 3 → 4 → 5 → 6 → 7 → 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)

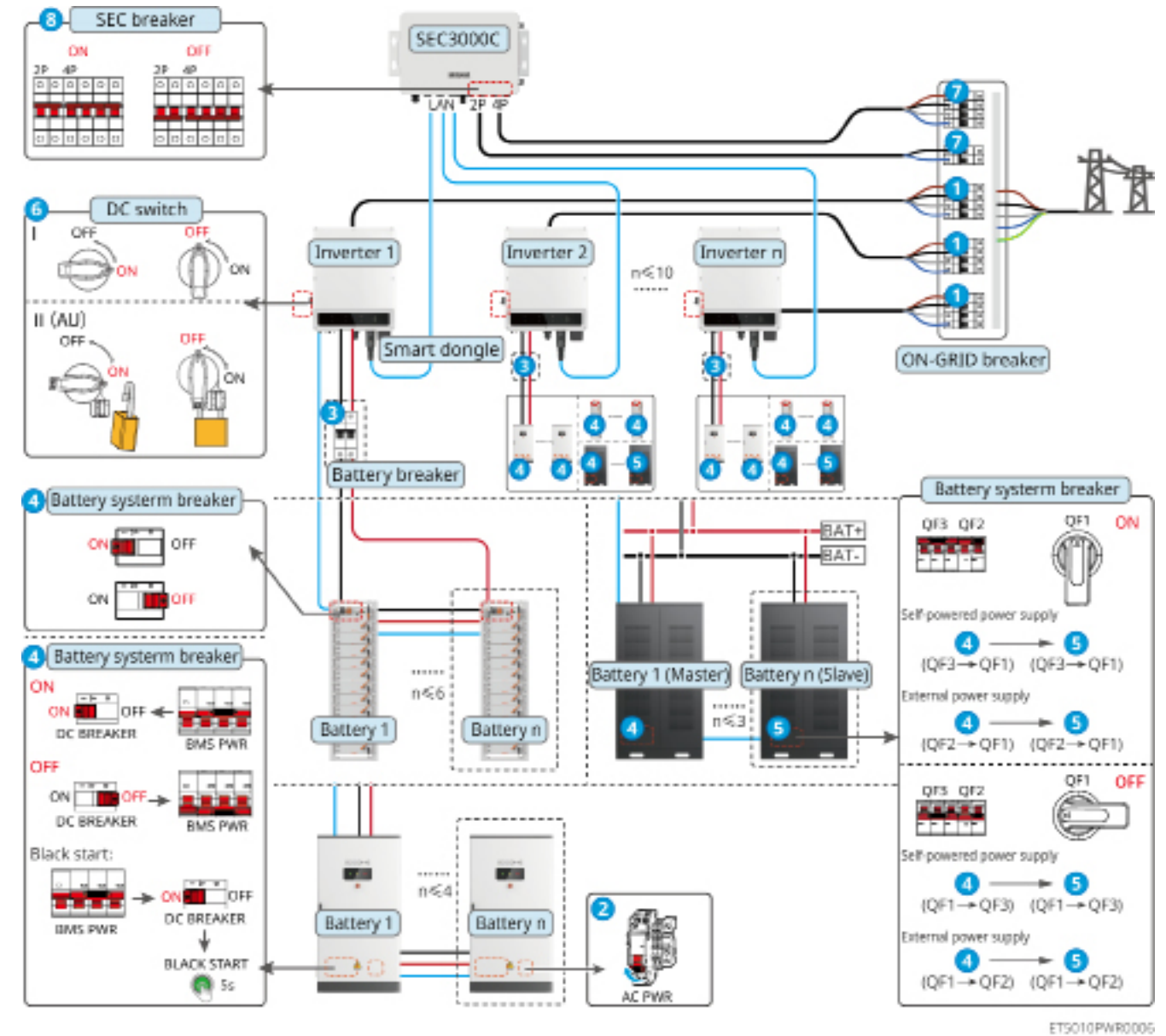


Power ON/OFF:

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)

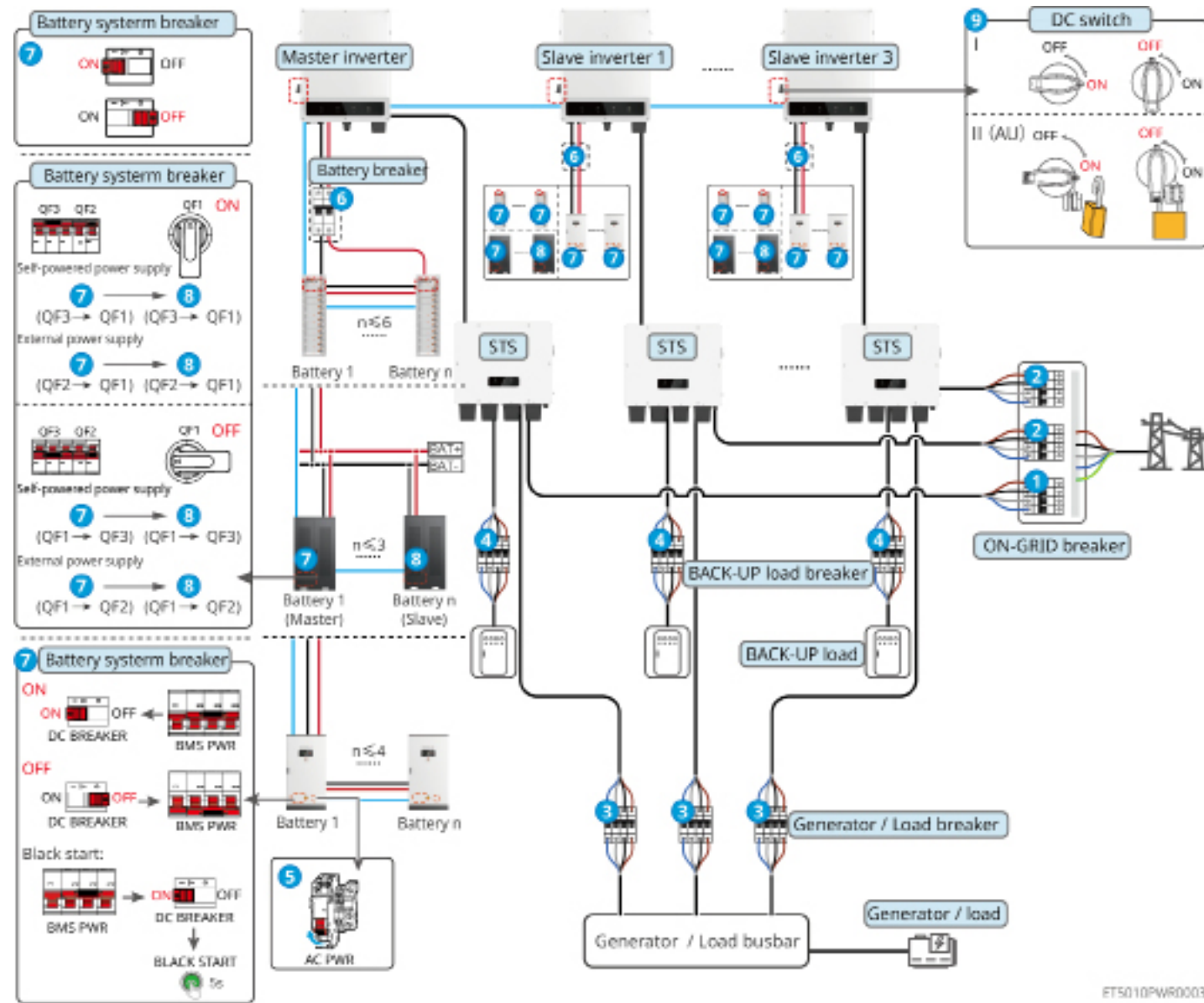


Power ON/OFF:

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)

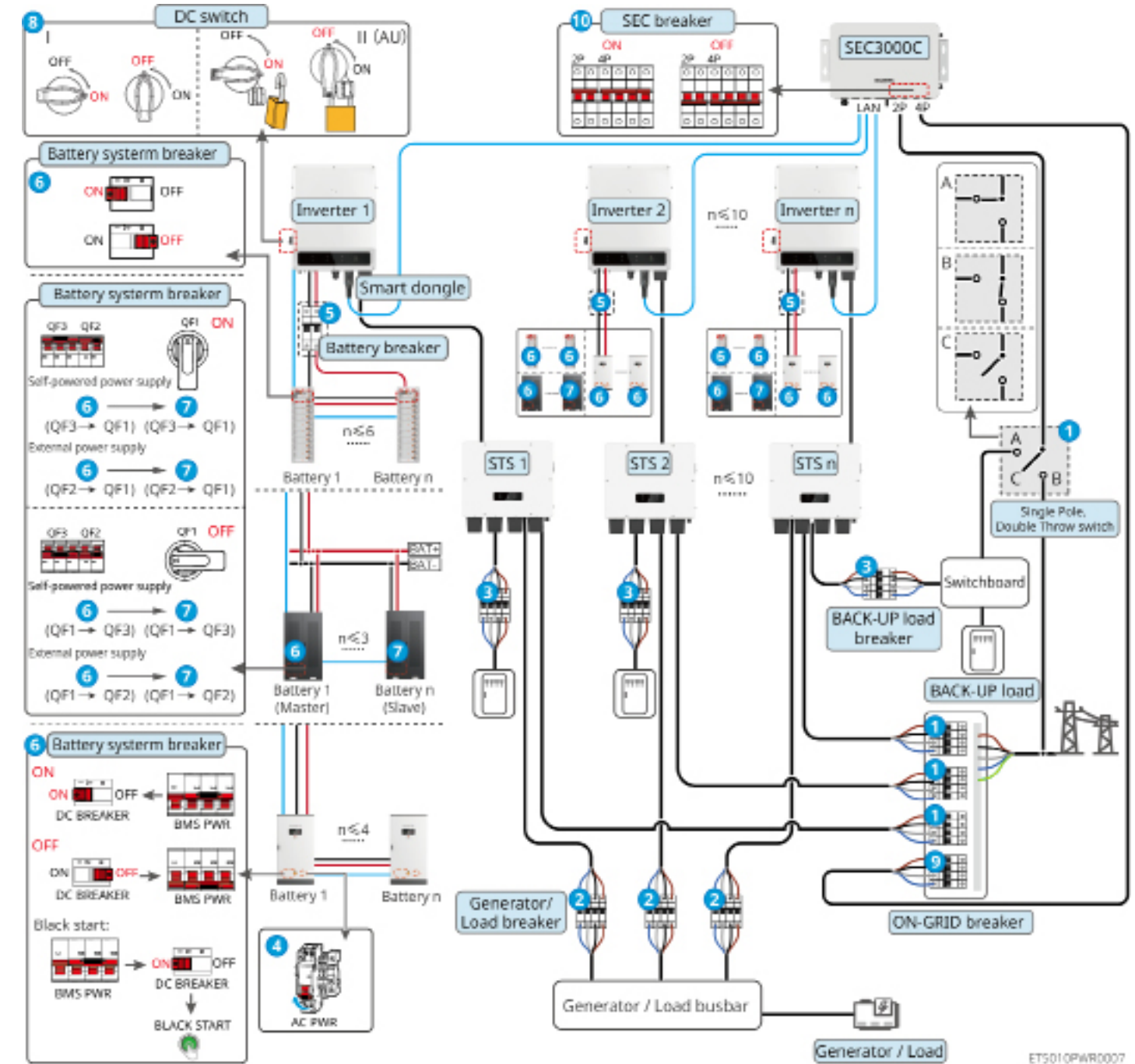


Power ON/OFF:

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)

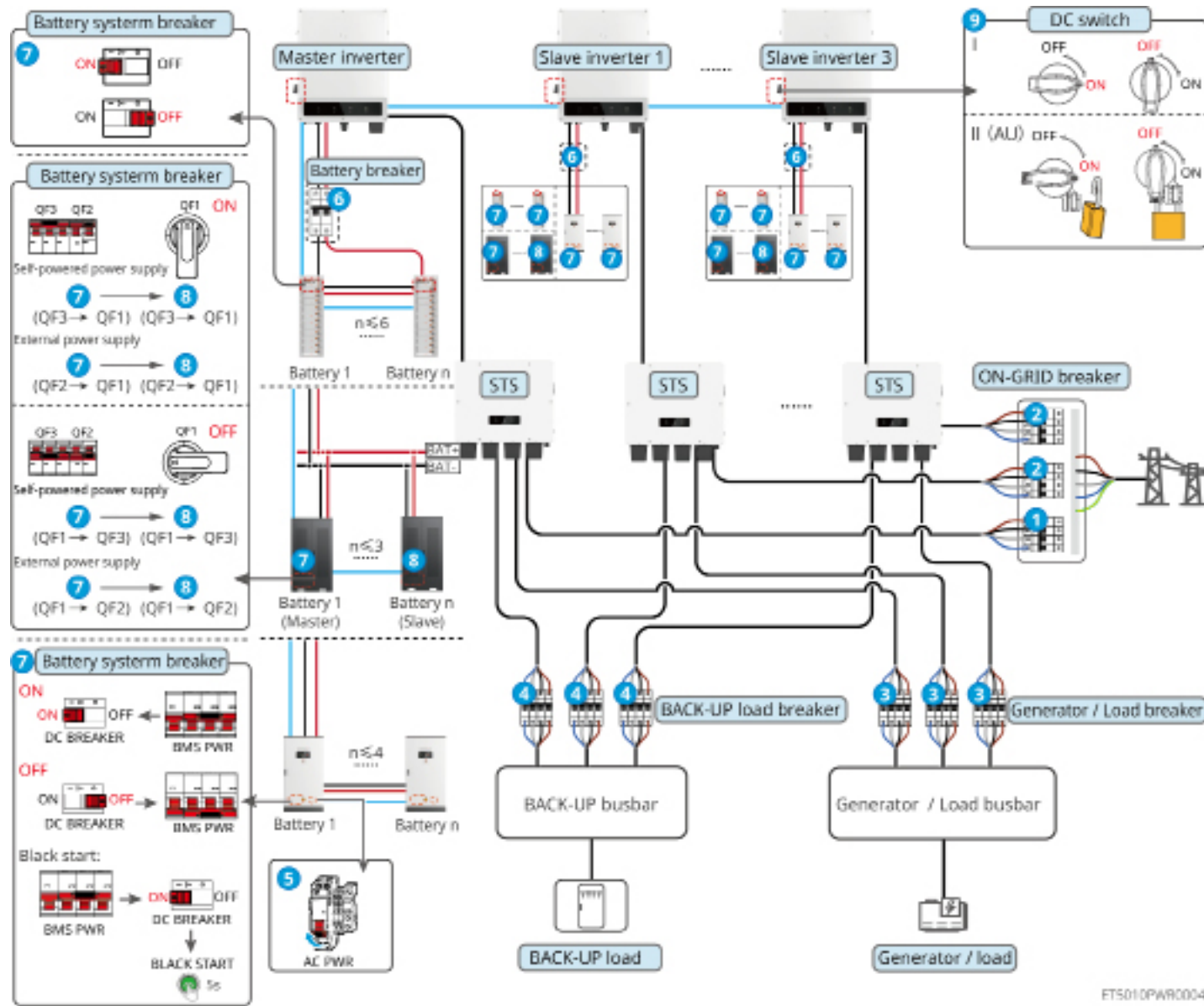


Power ON/OFF:

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)

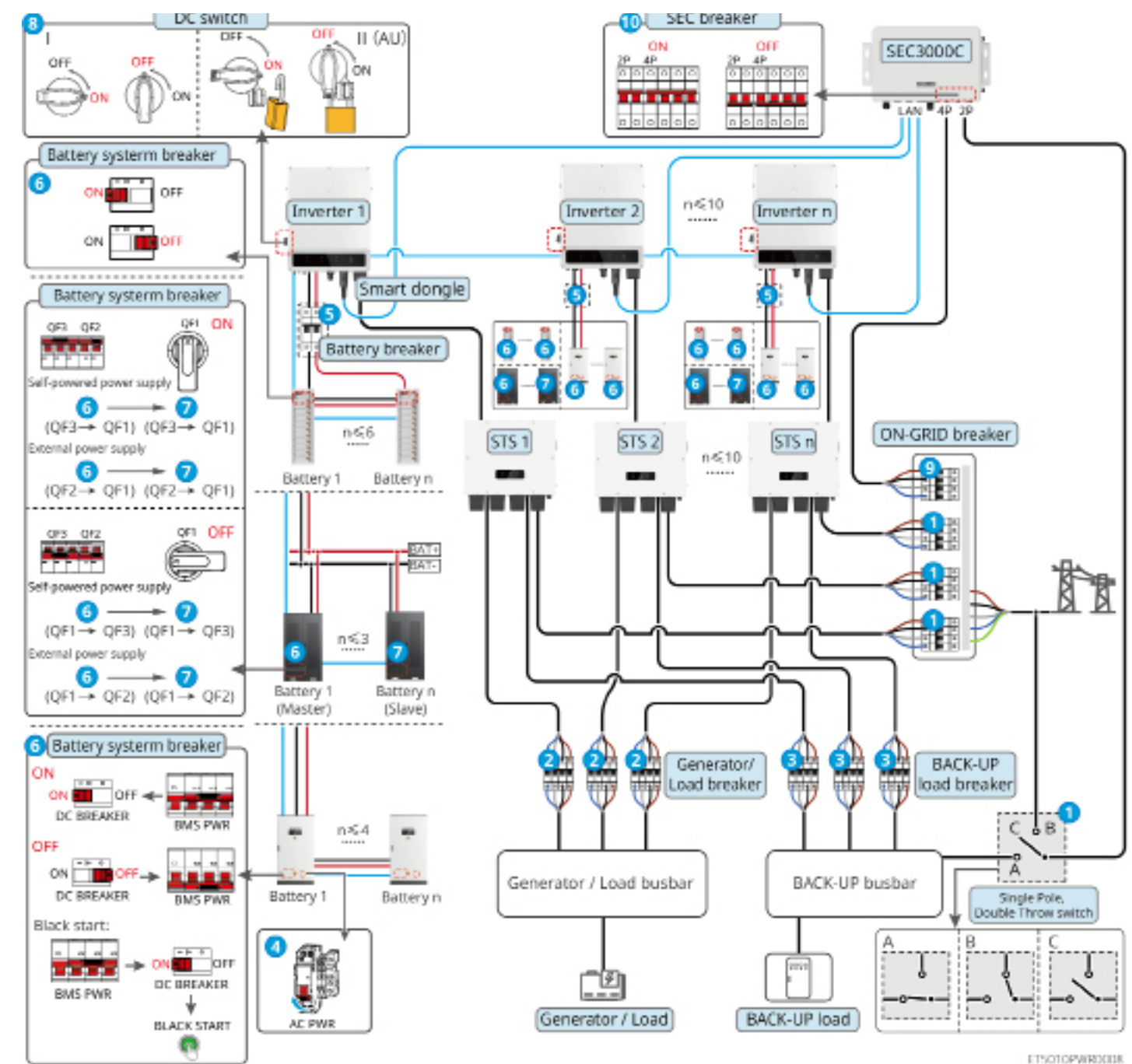


Power ON/OFF:

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

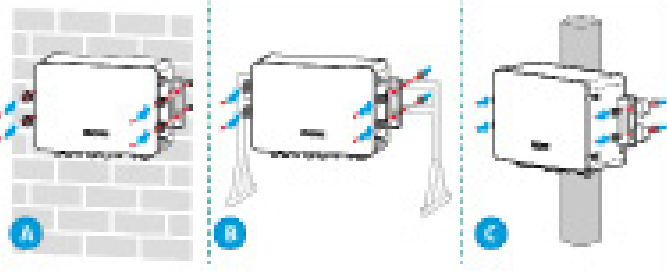


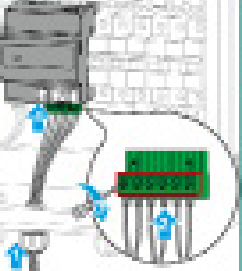

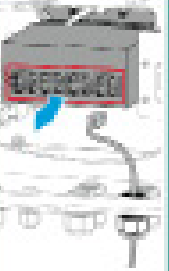
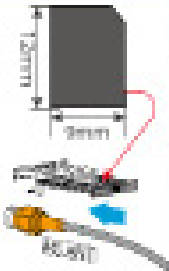
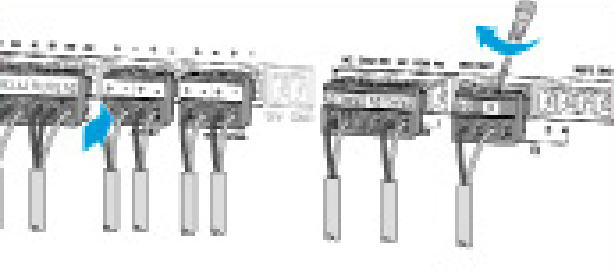
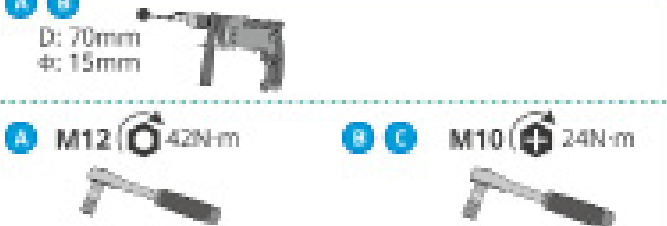




⑤ Optional in compliance with local laws and regulations

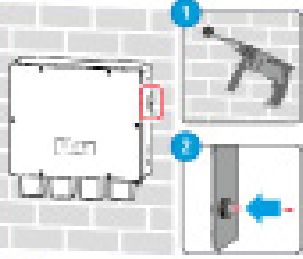
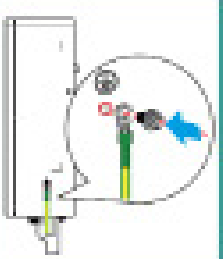
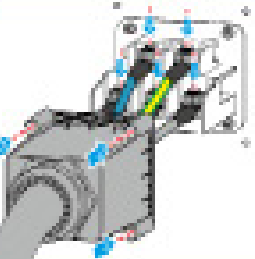
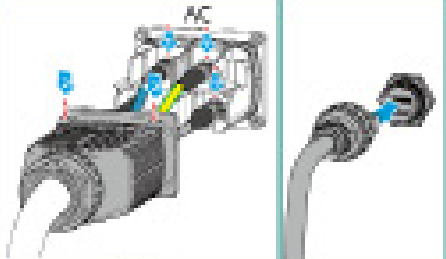
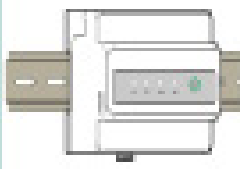
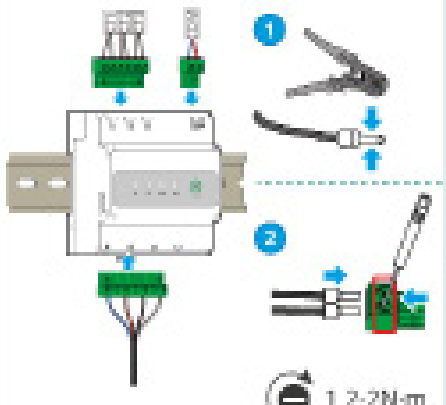
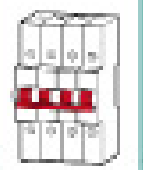






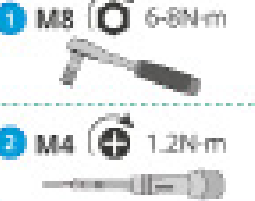
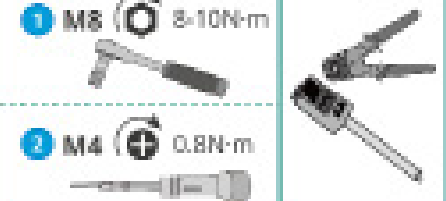
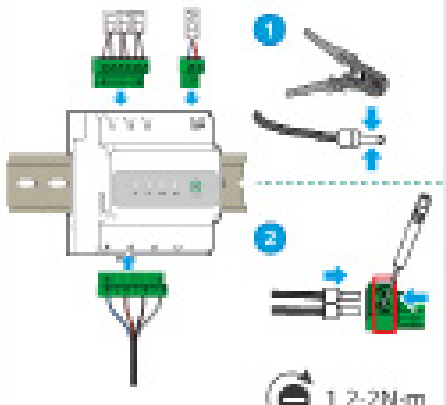
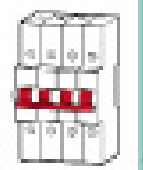




03 Installations

Steps	❶ Installation	❷ PE	❸ PV	❹ Battery	❺ AC		❻ COM	❼ Communication module		
Inverter										
Tools										

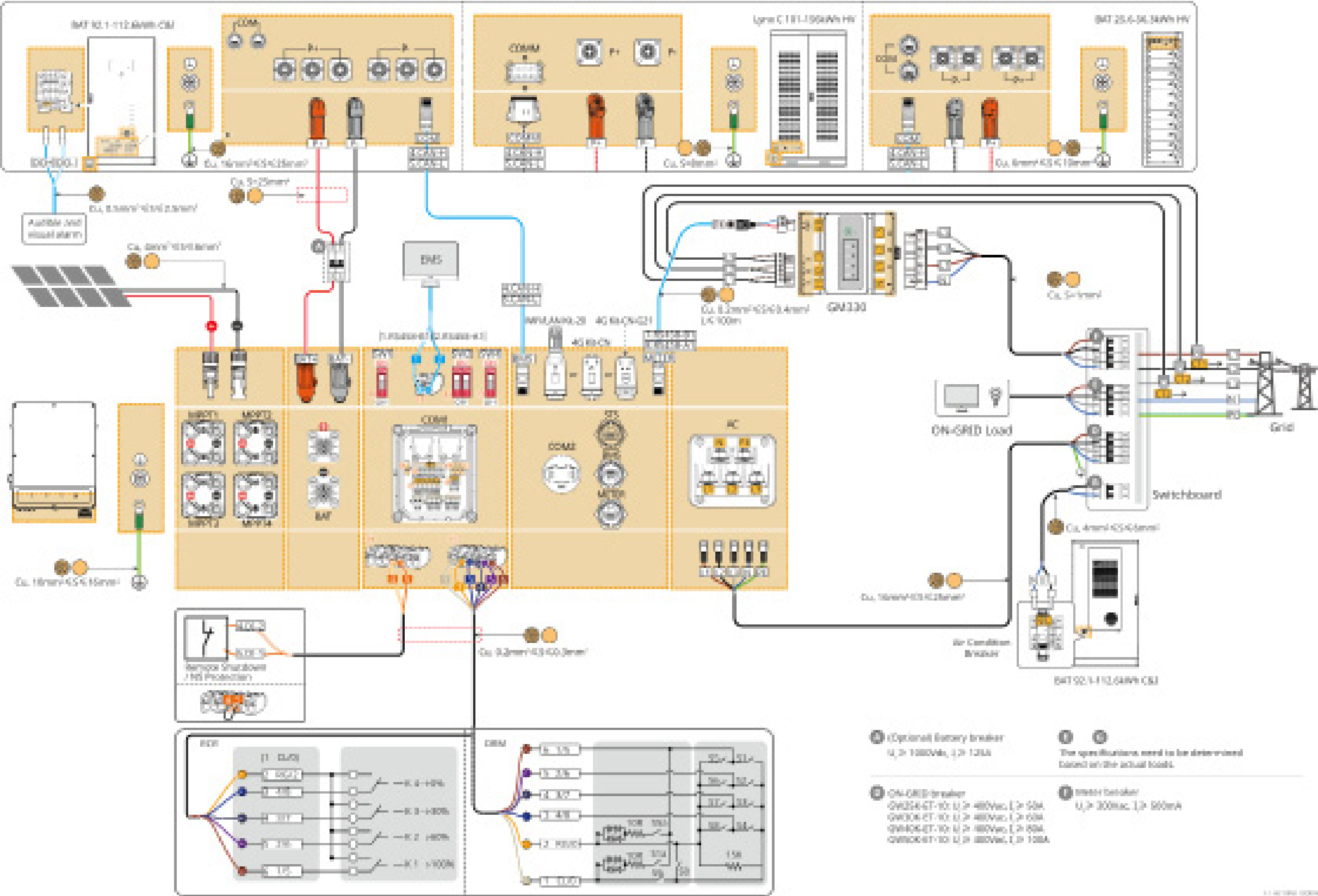
Steps	❶ Installation		❷ PE		❹ Battery		❺ COM		❸ AC cable power wiring
Battery									
Tools									

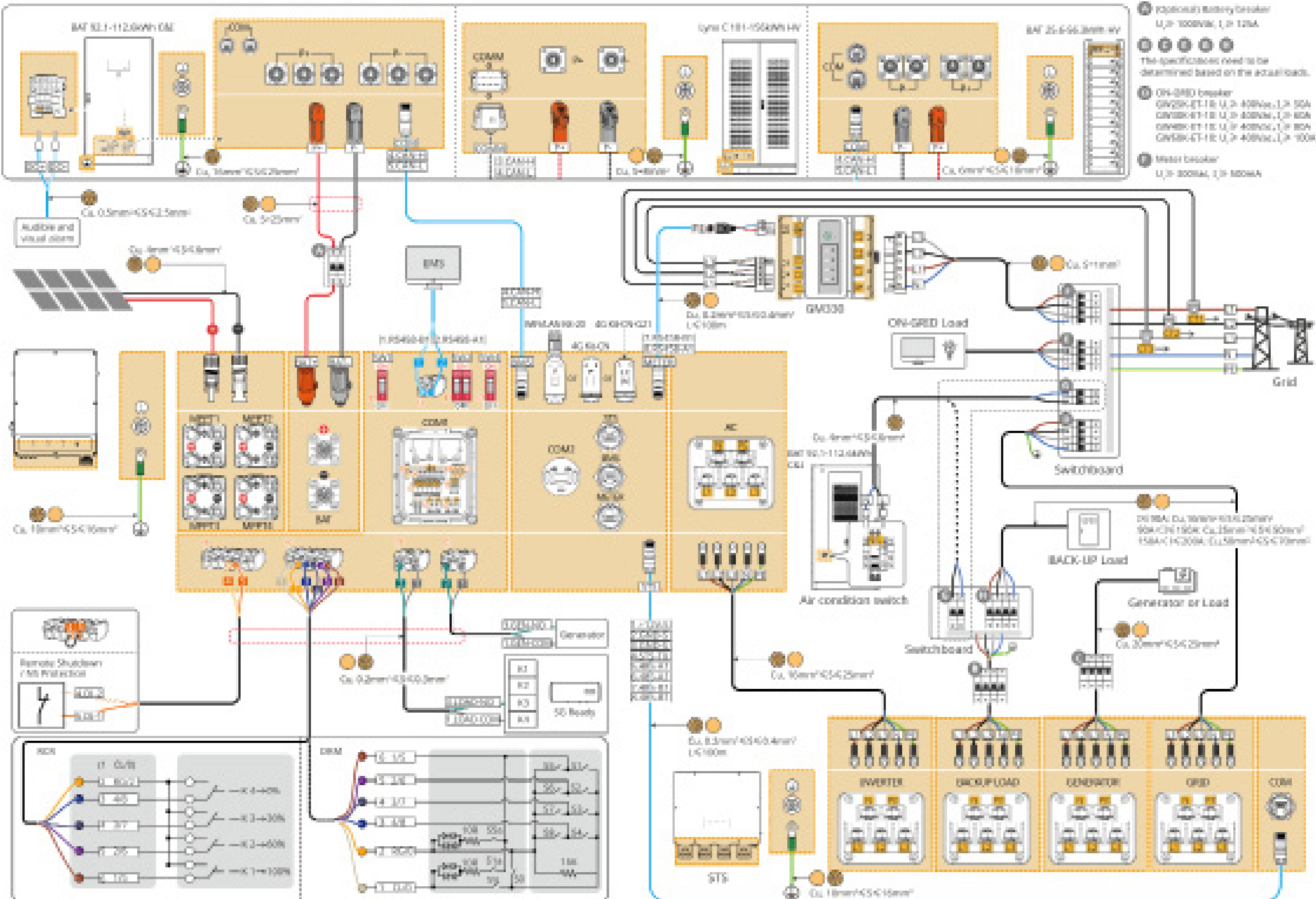
Steps	❶ Installation				❷ PE	❹ Battery		❺ COM
Battery								
Tools								

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

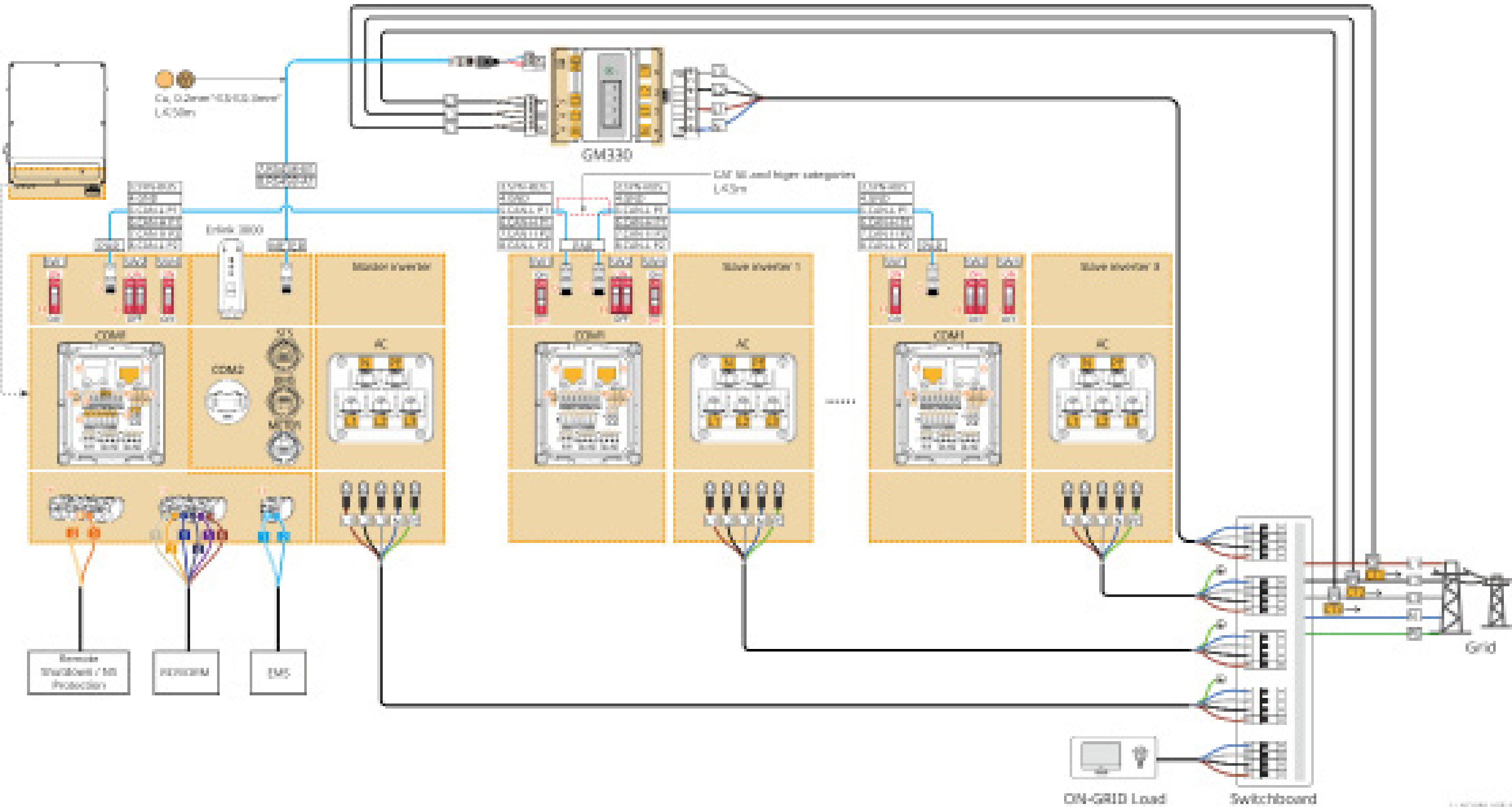
Steps	1 Installation	2 PE	3 AC	4 COM	Steps	1 Installation	2 Cable Connections	3 Power	4 Commissioning
STS					Smart meter GM330				   
Tools	 <p> 1 D: 80mm Φ: 8mm 3 M5 1.2-2N·m </p>	 <p> M5 1.5-2N·m </p>	 <p> 1 M8 6-8N·m 3 M4 1.2N·m </p>	 <p> 1 M8 8-10N·m 2 M4 0.8N·m </p>			 <p> 1 1.2-2N·m 2 1.2-2N·m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

BTN010N1000A

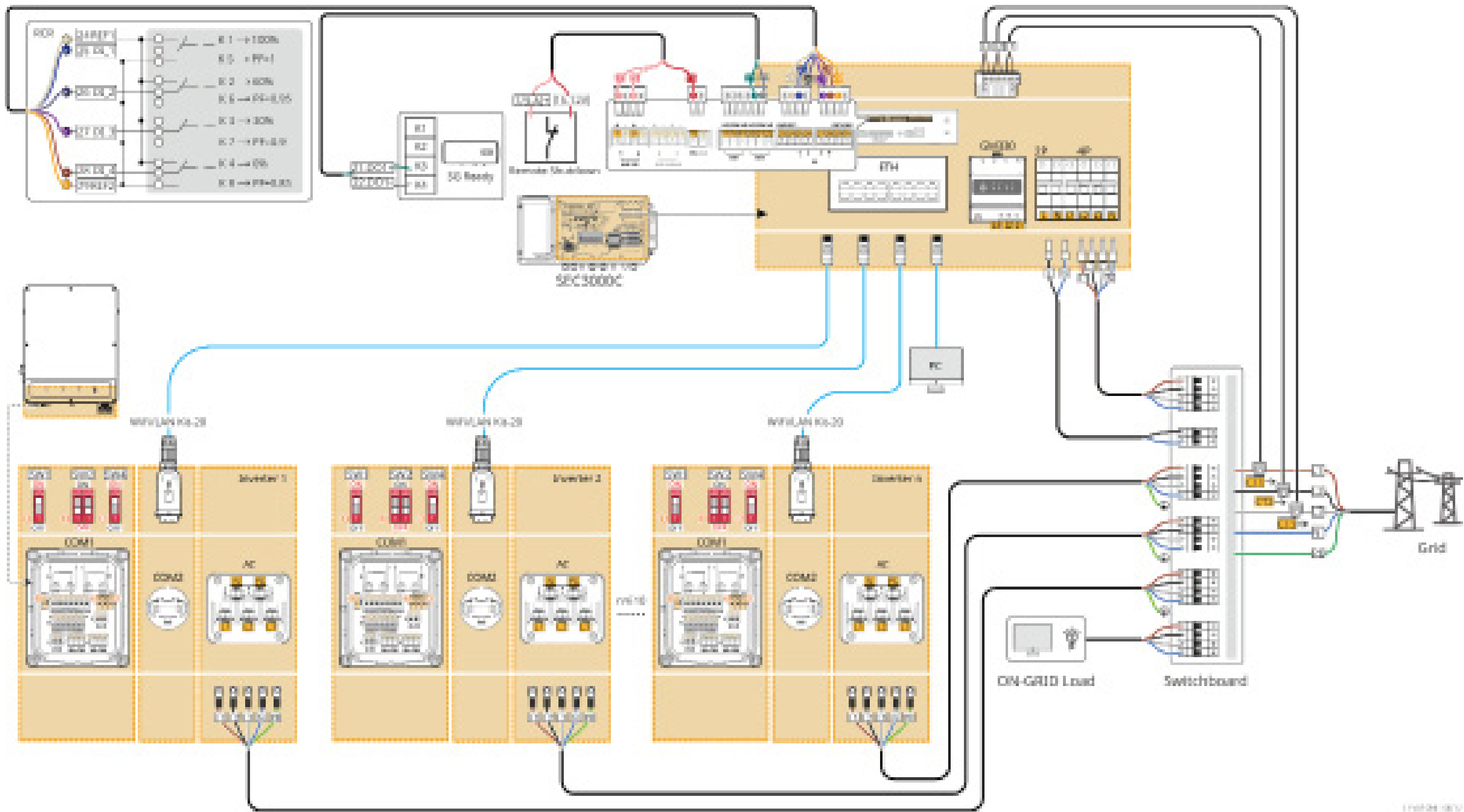




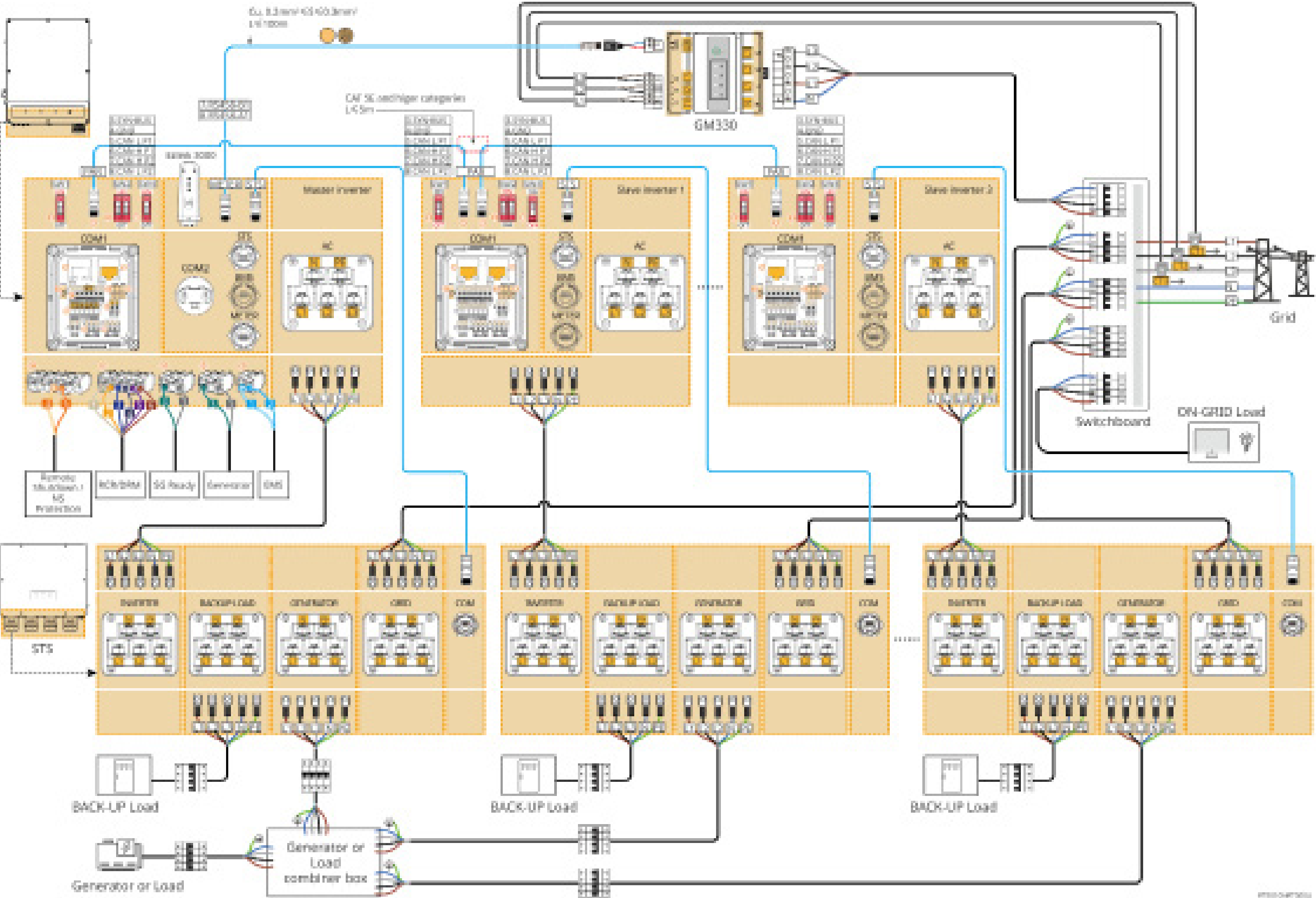
Multiple inverter in parallel, without BACK-UP function: Inverters + Battery + GM330 + Ezlink3000 (number of inverters in parallel≤4)



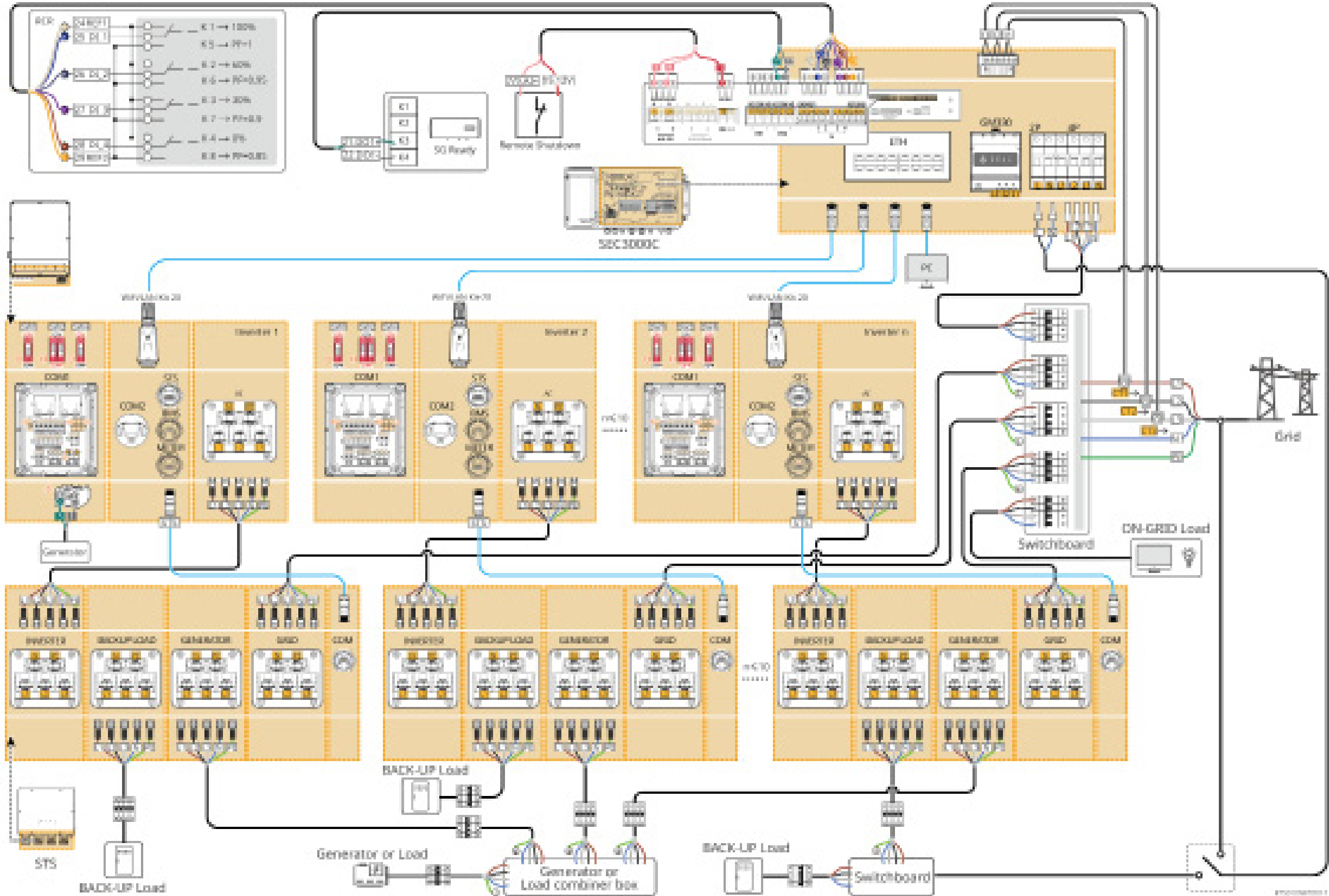
Multiple inverter in parallel, without BACK-UP function: Inverters + Battery + SEC3000C + WiFi/LAN Kit-20 (number of inverters in parallels≤10)



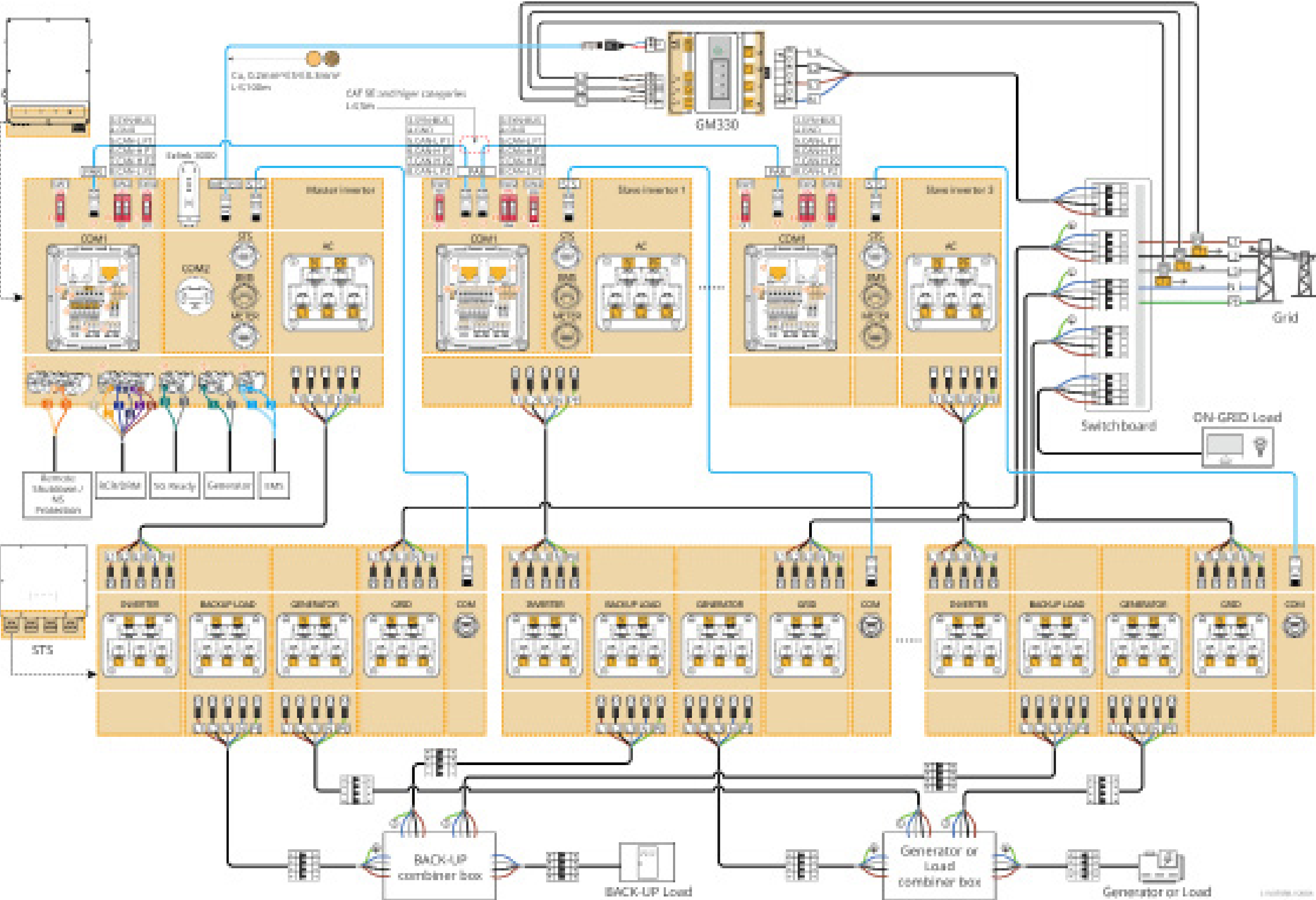
Multiple inverter in parallel, without BACK-UP paralleling: Inverters + STS + Battery + GM330 + Ezlink3000 (number of inverters ≤ 4)



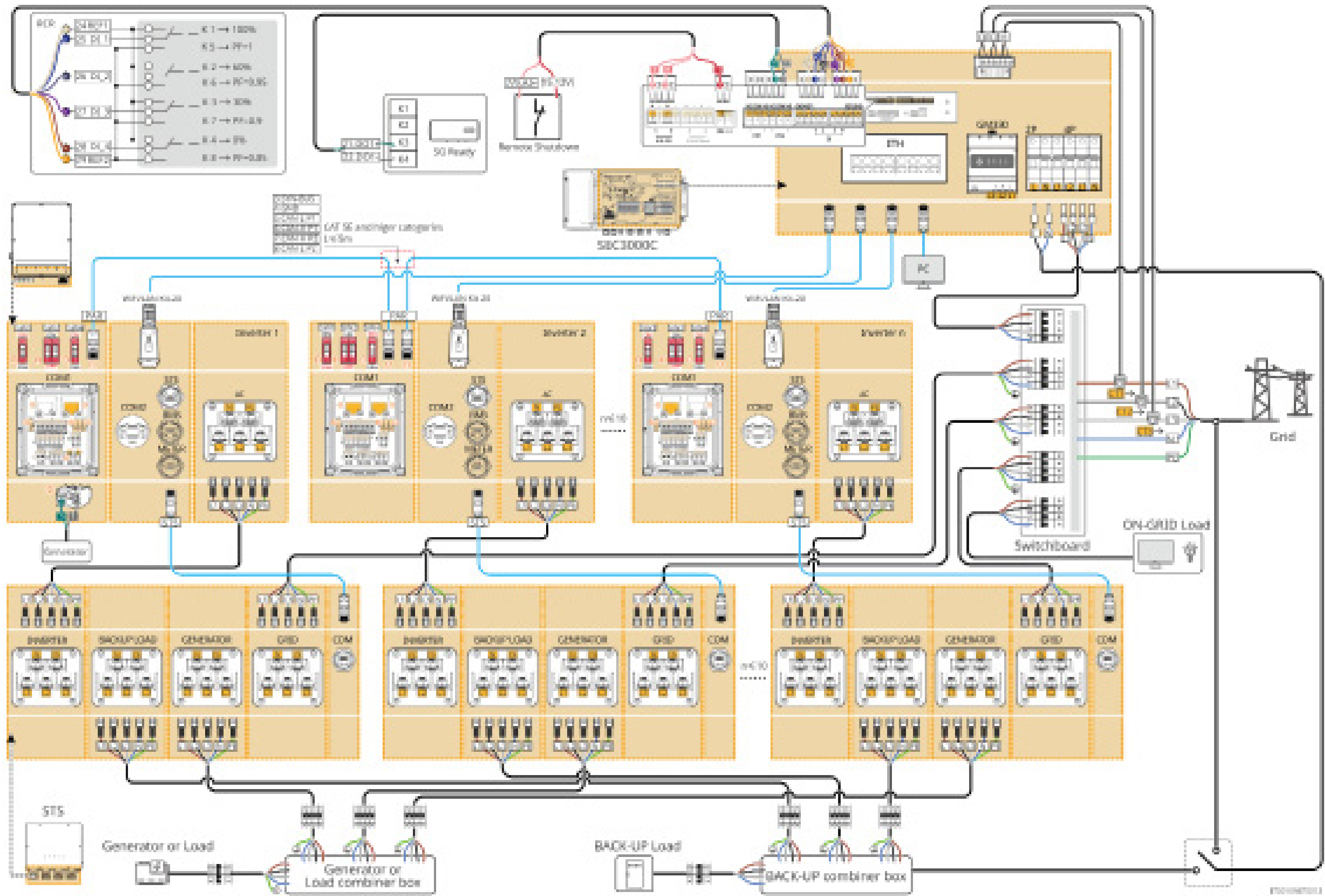
Multiple inverter in parallel, without BACK-UP paralleling: Inverters + STS + Battery + SEC3000C + WiFi/LAN Kit-20 (number of inverters ≤ 10)

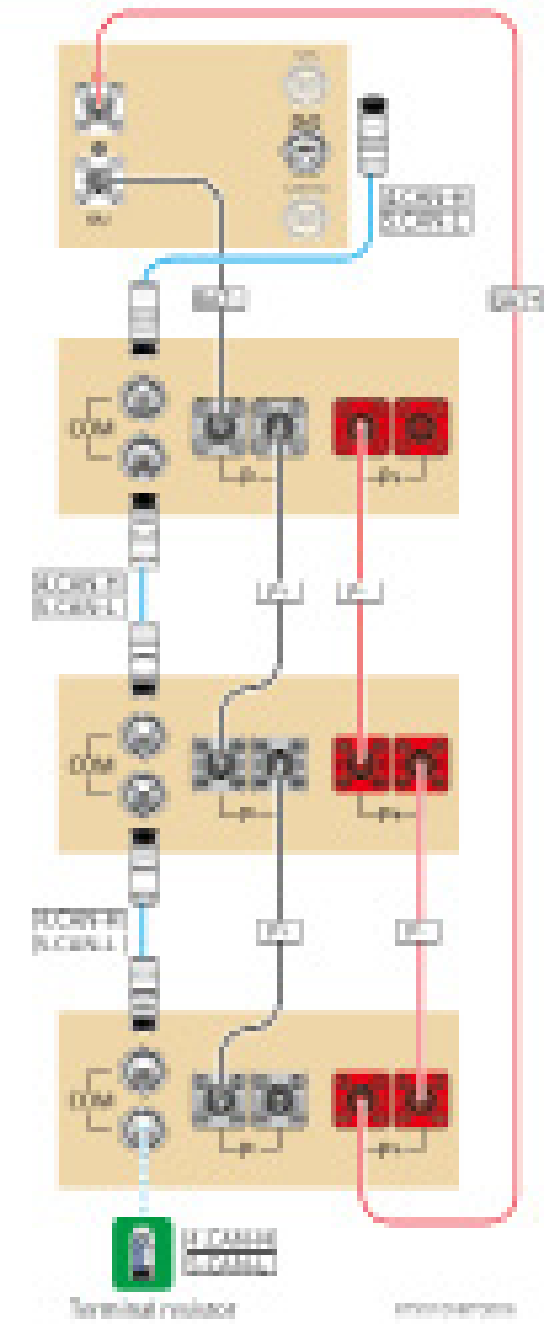
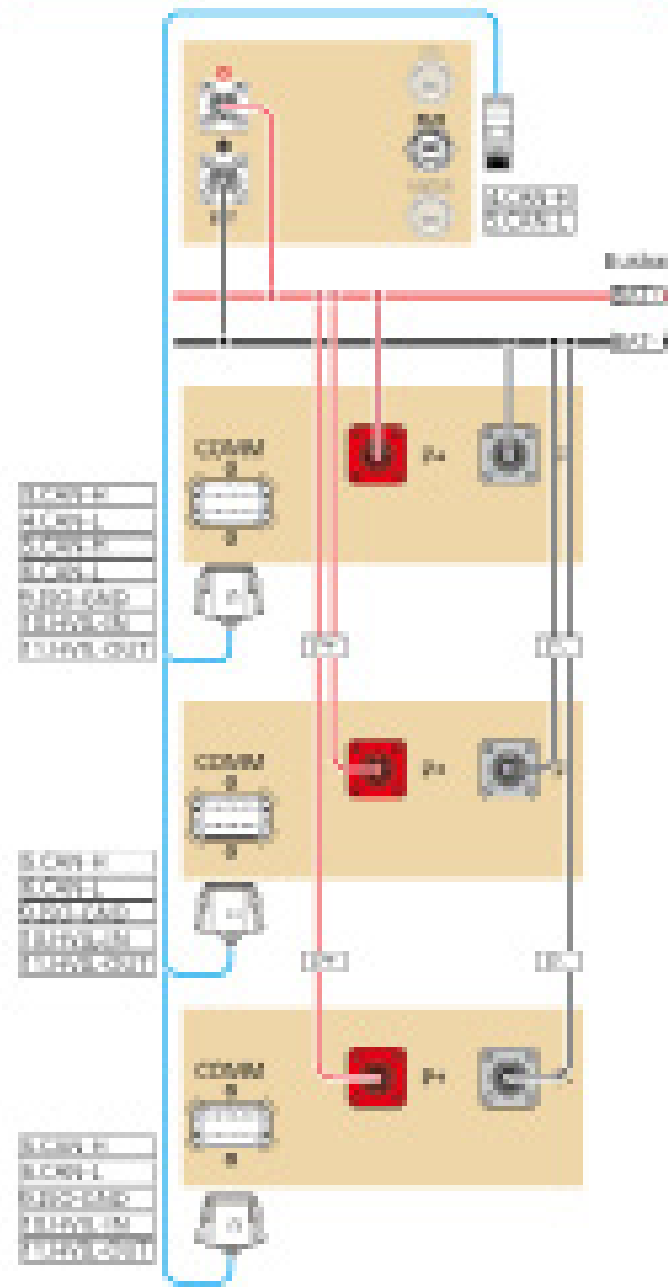
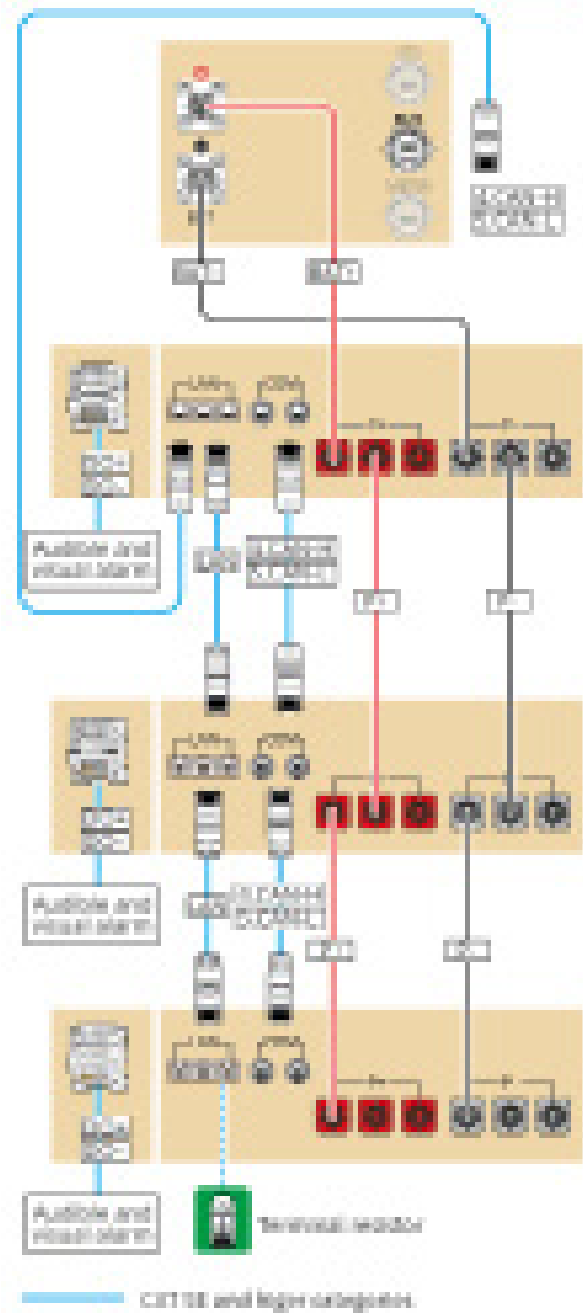
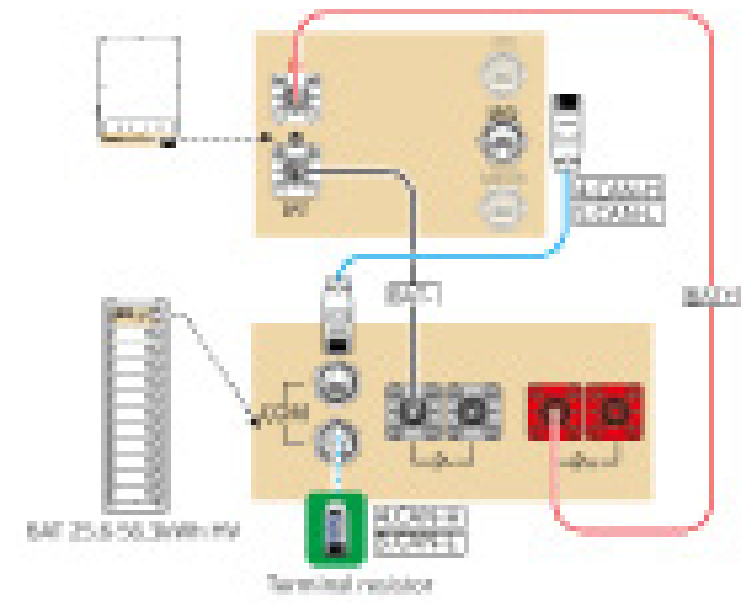
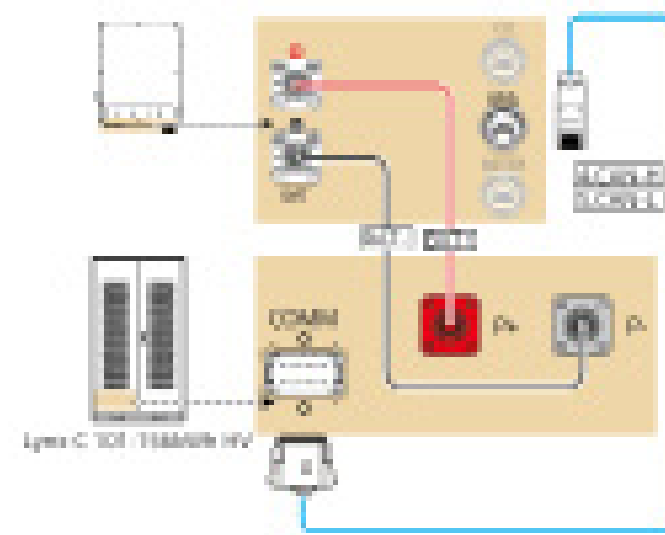
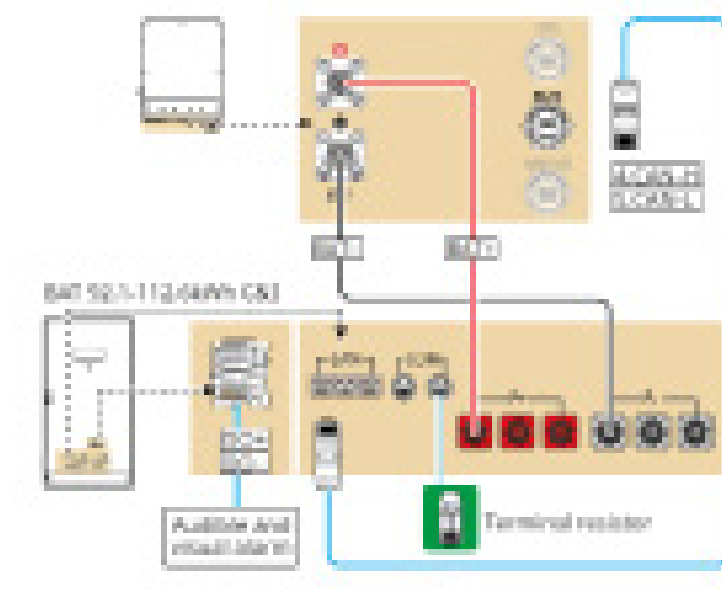


Multiple inverter in parallel, with BACK-UP paralleling: Inverters + STS + Battery + GM330 + Ezlink3000 (number of inverters ≤ 4)



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





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

Australia A

✓

Oceania

Australia B

○

Asia

Australia C

○

Africa

New Zealand

>

Others

Others

>

Setting Inverter Quantity (Only For Parallel Connections)

Quantity Settings

Number Of Inverters

1 2 Tower 2 ✓

Enter at least 2 units

Exit

PREV

Next

Setting the BAT Connect Mode

BAT Connect Mode

Battery Connect Setting

✓

No Battery

○

Select Battery Model

Selected Battery

Manufacturer:--

Series:--

Model:--

GoodWe

LX F-H*US*N

✓

Lynx Home D Series*N

1 Lynx C Outdoor*2

2 Lynx C Outdoor*3

✓

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

Reserved SOC for Peak Shaving

0 0

Range[0,100]%

Peak Power Purchase Limit

0.00 0.00

Range[0,655]kW

Time For Charging From Grid

00:00-00:00

>

Working Mode

Self-use Mode

Backup Mode

TOU Mode

Off-grid Mode

Capacity Demand Management

Peak Shaving

Delayed Charging

Priority of Working Mode:

Off-grid Mode>Peak Shaving>Delayed Charging>TOU Mode>Backup Mode>Self-use Mode

Exit

PREV

Next

Backup Mode

Charging Power From Grid

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.

Charging Power

0.0 0.0

Range[0,100]%

Peak power of buying electricity for charging. percentage of inverter power

Time

Start Time

End Time

21 58 21 58

22 58 22 58

23 59 23 59

01 01 01 01

02 02 02 02

03 03 03 03

Repetition (Requires both monthly and weekly repetition to take effect)

Month-Repeat

None

Week-Repeat

None

Charging/Discharge Mode

Battery Charging

Discharge

Battery Discharge Power

0.0 0.0

Range[0,100]%

Delayed Charging

Peak Power Sales Limit

0 0

Range[0,1000]kW

PV Prioritizes Charging Battery

ON: PV power generation changes from selling electricity to charging batteries

Start Charging Time

Suggest setting a time point with strong sunlight exposure

None

>

TOU Mode

Time

Add up to 8 sets of time

23:59-01:01 +1

Month-Repeat

Every Month

Week-Repeat

Every day

Charge Or Discharge Mode

Battery Discharge

Battery Discharge Power

45.0%

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

✓

STS-Backup Port Stand-alone Connect

○

No STS Box

○

Wiring Method

Save

STS-Backup Port Parallel Connect

✓

Tips

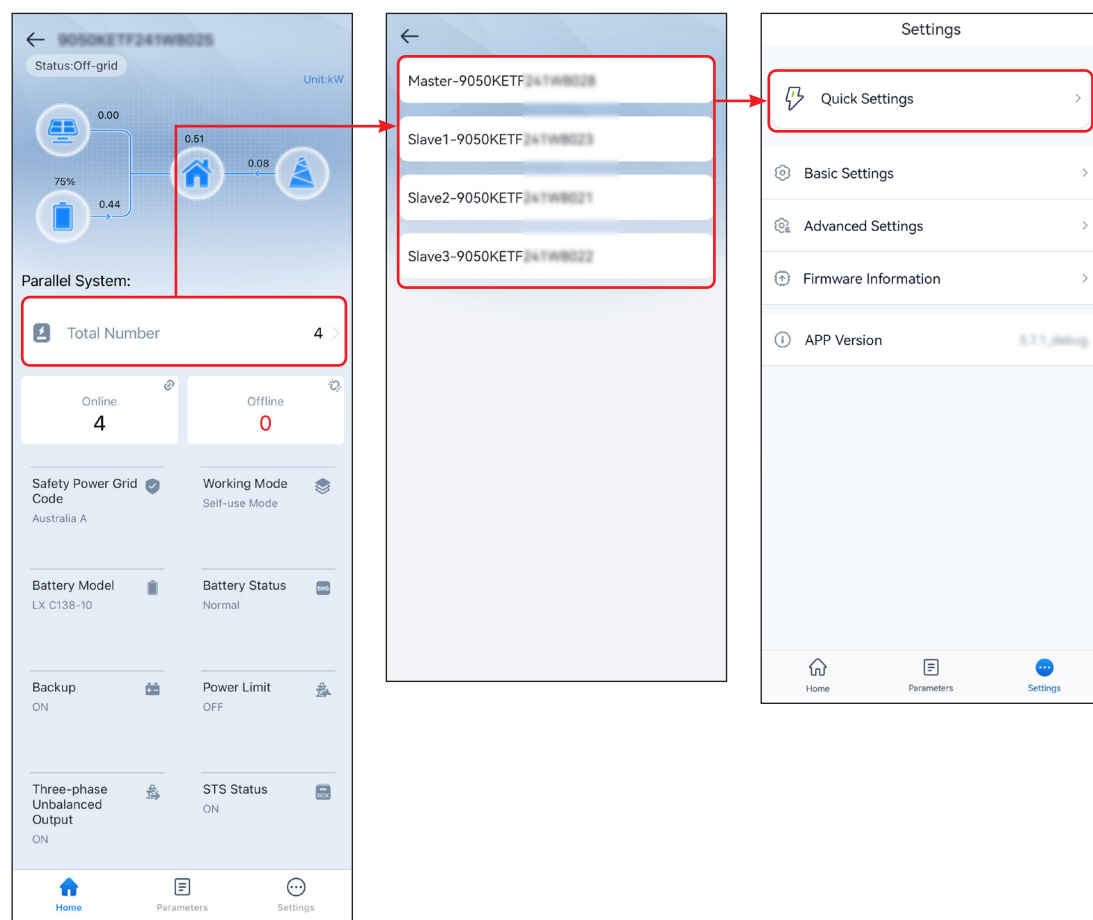
After the Wiring Method is successfully set, the device needs to be restarted, and the app will jump to [Device List] to reconnect the device. Are you sure to save?

Cancel

Confirm

Setting Batteries Of Each Inverters (Only For Parallel Connections)

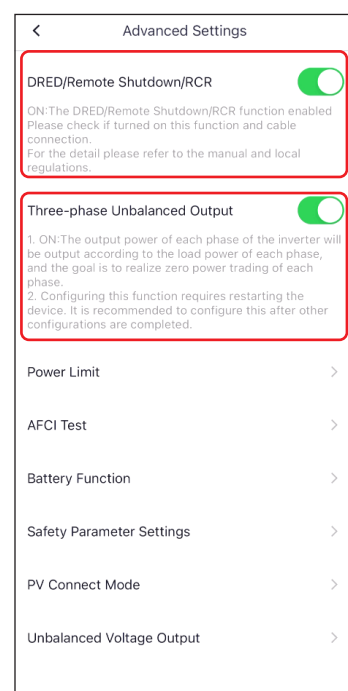
Open SolarGo App. Follow the prompts to set the battery model and connection mode of each inverter.



Setting Advanced Parameters

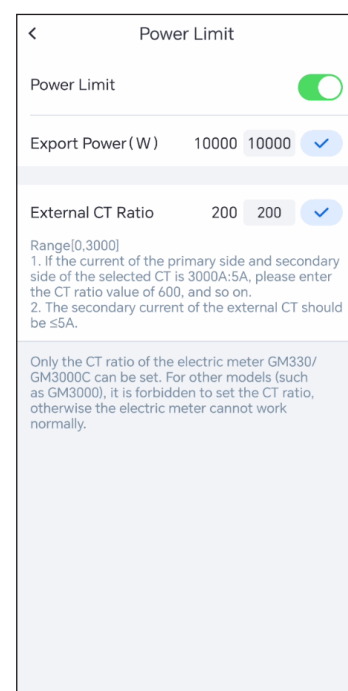
Tap Home > Settings > Advanced Settings to set the following functions.

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



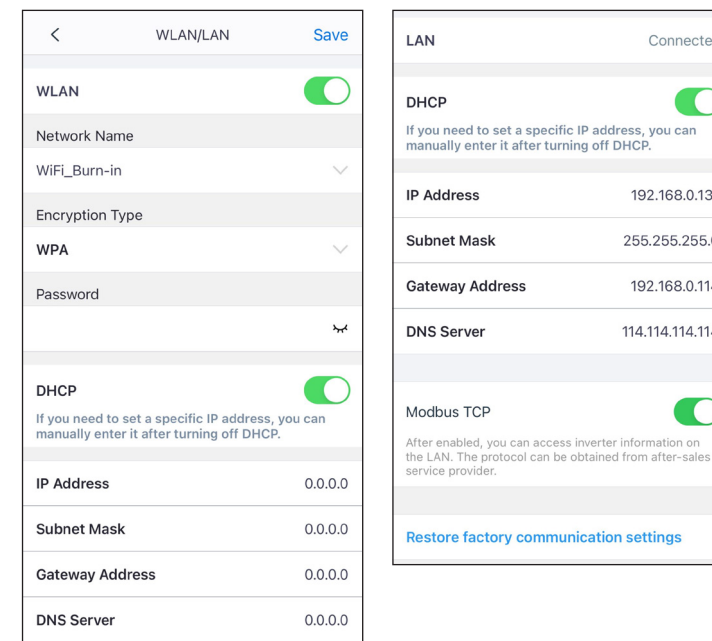
Enable Three-phase Unbalanced Output when the utility grid company adopts phase separate billing.

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.

