

# SIMPO 5000

## Quick Start Guide\_V1.1

**ZYC ENERGY**  
ZERO YOUR CARBON



## Safety

When installing, commissioning, operating and maintaining the product, the safety requirements in the manual should be strictly observed. Incorrect operation or work may lead to damage to the product and other properties or injury or death of the operator or third parties.

When fixing the product with screws or other parts, use the correct tool and reinforce it with the torque indicated in the manual or on the label of the product, otherwise the product may be unstable or damaged.

When using different tools, master the tools in advance to prevent the installer from being injured due to improper handling.

Please read this manual thoroughly before installation to ensure proper and safe installation and use of the product.

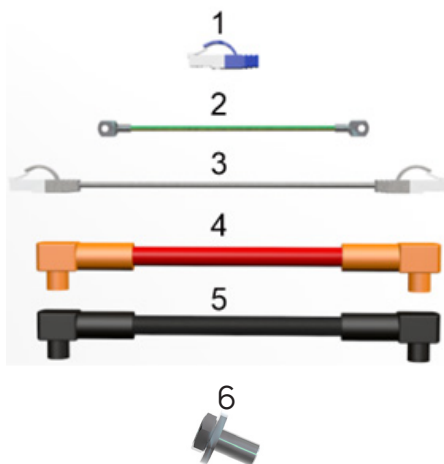
## Warning & Caution

- Installers and users are obliged to familiarise themselves with this manual.
- Power Cables and plugs have high voltage from the battery, be careful when wiring.
- Ensure that a fire extinguisher is in place prior to installation and use.
- Installation and operation must be carried out by qualified personnel and the system must be installed in restricted access areas.
- The battery module is with certain weight, it is better to be installed by at least two personnel. With the help of tools if necessary.

## Contents in SIMPO 5000 Package



← SIMPO 5000 Module



Number	Part Name	Quantity
1	Terminal Resistor	1
2	PE Cable	1
3	ComCable	1
4	Power Cable(+)	1
5	Power Cable(-)	1
6	Bolt M6 × 16	4

**SIMPO Cabinet**

**Cabinet 10**



**Cabinet 6**



Specification	SIMPO Cabinet 6	SIMPO Cabinet 10
Dimension (W x D x H)	620 x 600 x 1270mm	620 x 600 x 1890mm
Max. Qty of modules	6 (30kWh)	10 (50kWh)
Max. continuous current	625A	1250A
IP Rate	IP20	
Weight	120 kg	90 kg

**Tools**



Safety Shoes



Insulated Gloves



Goggles



Drill



Torque Wrench



Multimeter



Wire Cutter



Utility Knife

**Extra Accessories**

The parts below are not included in the accessories we offered, but necessary for connecting with inverter.



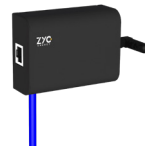
1. DC Cables With terminal SC xxx-12



2. PE Cable With terminal SC xx-6



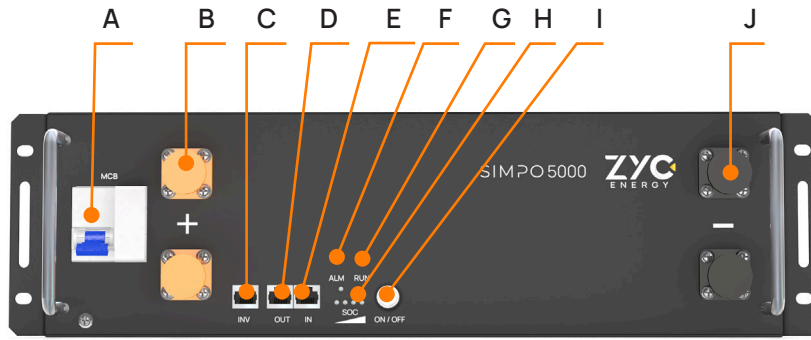
3. Com cable with shield (Cat5 or higher)



4. SIMPO WiFi

1. Select appropriate cables according to the power of your system and electrical requirements.
2. PE Cables (CSA ≥ 25 mm) with Terminal (SCxx-6).
3. Communication cable with shield (Cat5 or higher).
4. SIMPO WiFi can be bought from ZYC's dealers.

SIMPO 5000 Interface & LED Status

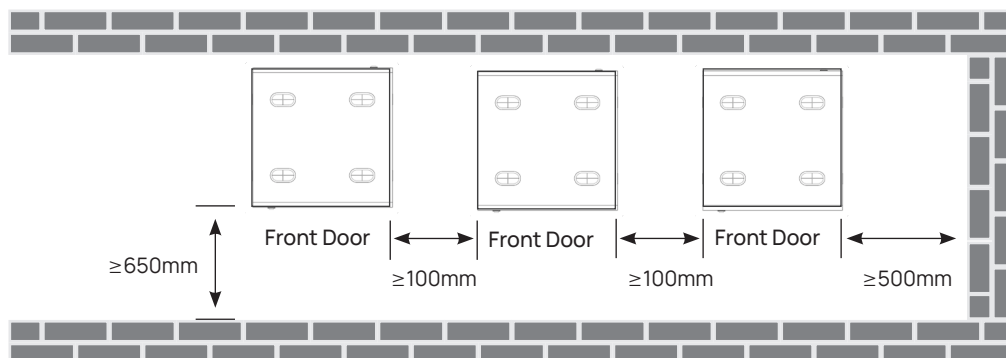


Letter	Label	Function	Letter	Label	Function
A	MCB	Circuit Breaker	F	ALM	Alarming LED
B	+	DC+ Port	G	RUN	Status LED
C	INV	Inverter Com	H	SOC	SOC Indicator
D	OUT	Parallel Com Out	I	ON/OFF	Switch On/OFF
E	IN	Parallel Com In	J	-	DC- Port

There are three LEDs on the front panel of SIMPO 5000 that indicate battery status, ALM, RUN and SOC.

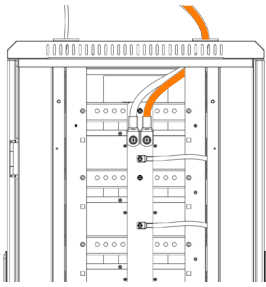
LED	Status	Operational State
ALM	●	Error occurs
	●	There is no error existing
RUN	●	The battery is ON and can be charged and discharged if no error.
	●	The battery is not working
SOC	● ● ● ●	75% < SOC ≤ 100%
	● ● ● ●	50% < SOC ≤ 75%
	● ● ● ●	25% < SOC ≤ 50%
	● ● ● ●	0% < SOC ≤ 25%
	While SOC < 5%, the first LED flashes quickly (0.5s ON, then 0.5s OFF)	
While discharging, the last LED flashes normally (1s ON, then 1s OFF)		0.5 Hz
While charging, the last LED flashes slowly (2s ON, then 2s OFF)		0.25 Hz

Minimum Clear Space Requirement of Cabinets:

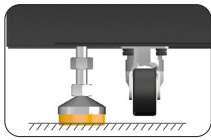


Connect the Power Cables and PE Cable & Adjust the Feet For SIMPO Cabinet 6

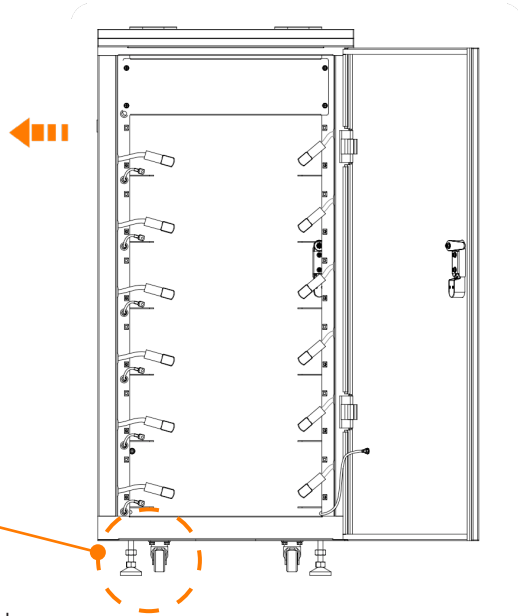
Left side



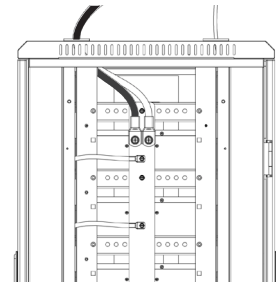
Tighten Torque for Power cable: **15 N·m**



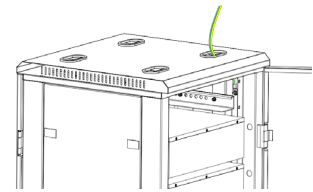
Use feet to support the cabinet and ensure that the wheels are higher than feet.



Right side



Tighten Torque for Power cable: **15 N·m**



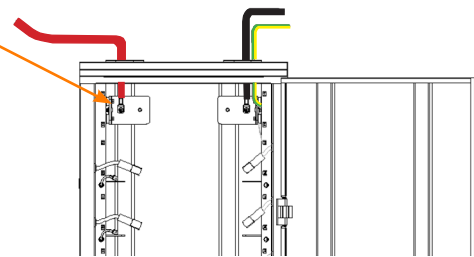
Tighten Torque of PE cable: **5 N·m**

Connect the Power Cables and PE Cable & Adjust the Feet For SIMPO Cabinet 10



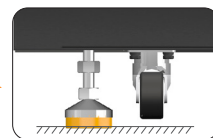
Open the front door and remove this panel to see the busbar for power cables.

There are two terminals for each pole. If the power of inverter is more than 25 kW, It is recommended to use two sets of power cables to reduce the size of the cables' diameter.



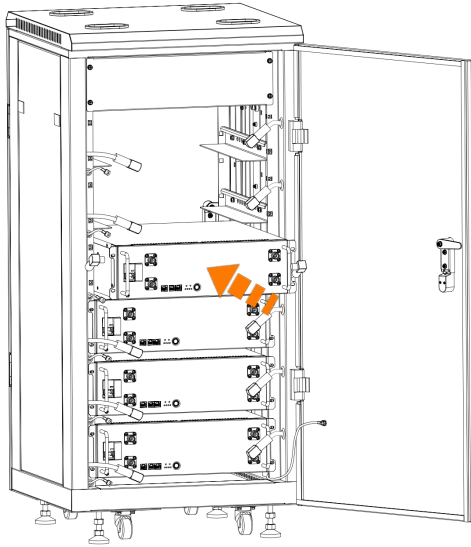
Tighten Torque Requirement:

- Power cables: **20 N·m**;
- PE cable: **5 N·m**

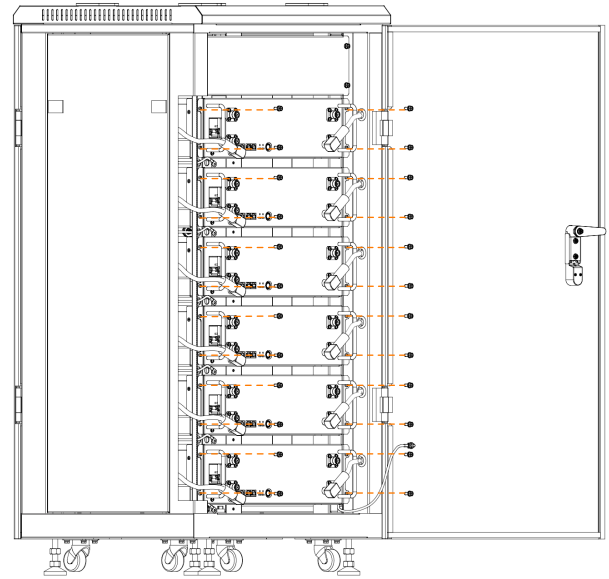


Use feet to support the cabinet and ensure that the wheels are higher than feet.

Fix The Modules to The Cabinet

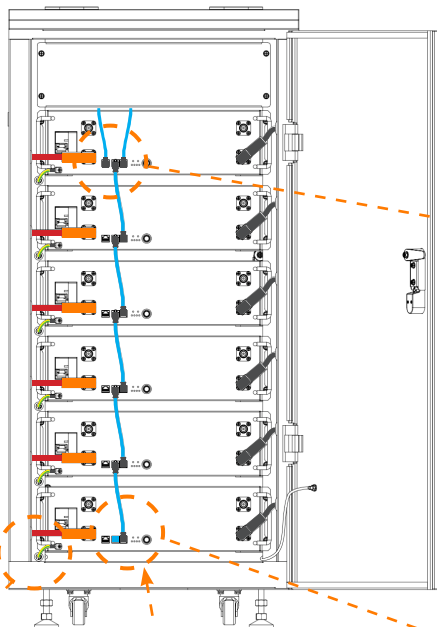


Plug the Modules into the Cabinet

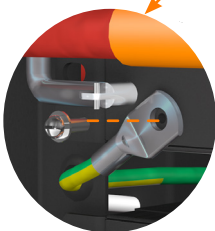


Torque = 5N·m

Connect Power Cables & PE Cables & Com Cables & Terminal Resistor

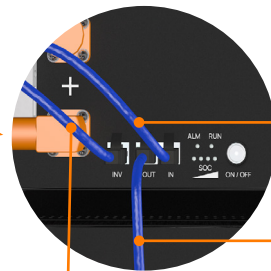


Torque=3 N·m



Terminal Resistor

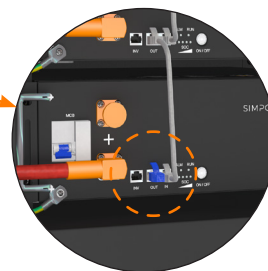
Communication Ports of Master Battery



**IN:**  
Connect to WiFi Dongle

**OUT:**  
Connect to IN port of next Battery

**INV:**  
Connect to Inverter



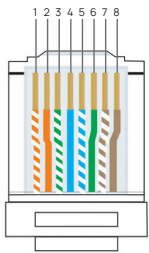
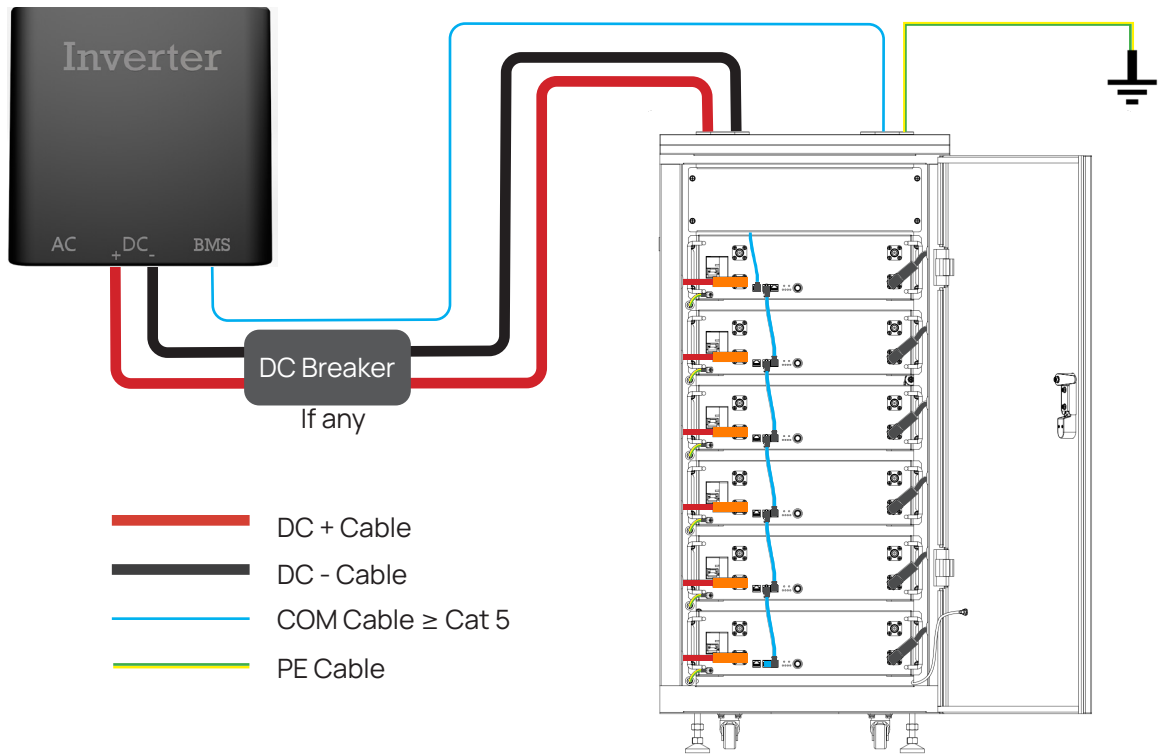
Plug the terminal resistor into the "OUT" port of last battery.

## Connect To The Inverter

Connect the power cables and communication cable between battery system and inverter.

**Notice:**

- The communication cable should be Cat 5 or upper.
- For no communication mode, there is no need to connect the communication cable.



**Definition of INV Port on Battery interface**

PIN No.	1	2	3	4	5	6	7	8
Definition	Null	Null	Null	CAN_H	CAN_L	Null	RS485B	RS485A

Change the communication cable's wires order if necessary.

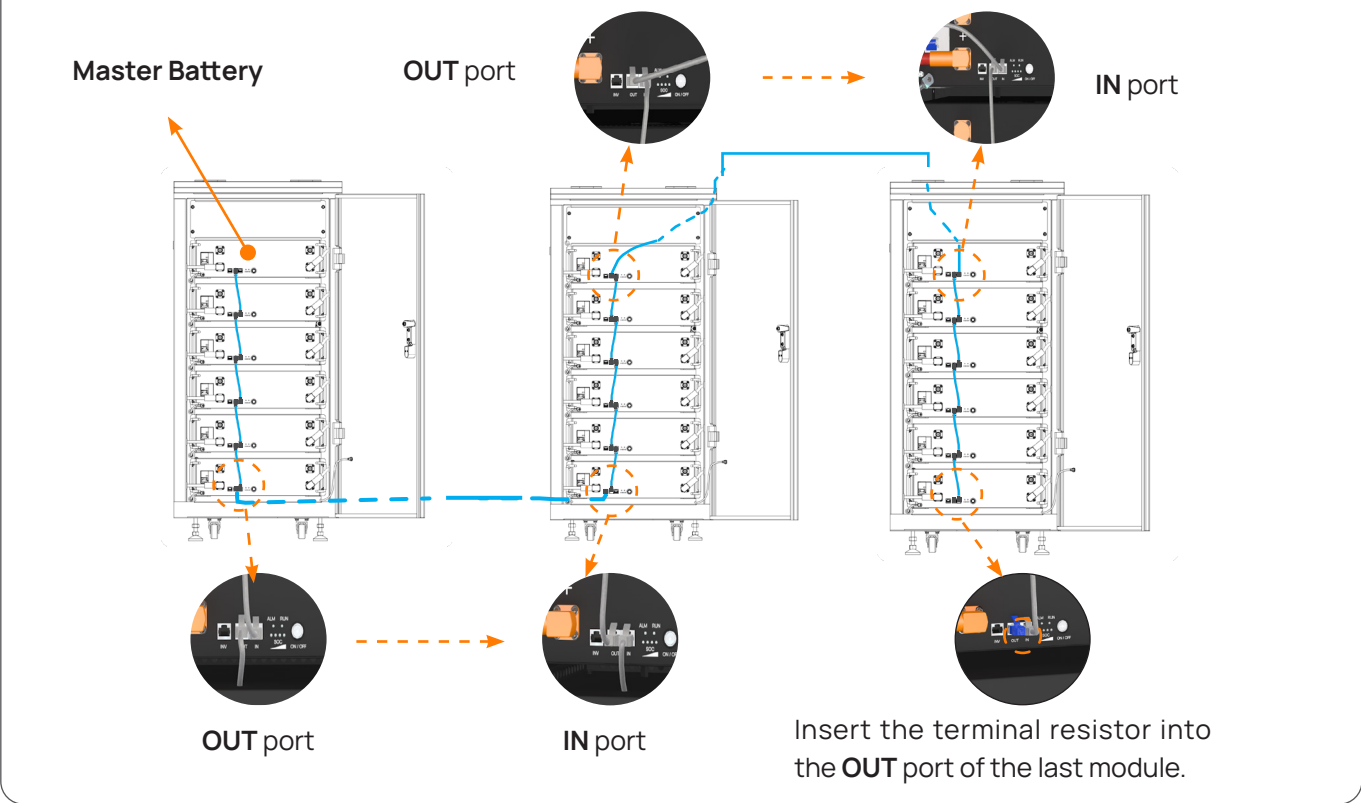
Matching with the **CAN** Communication inverters as below:

	SIMPO 5000	Victron	Selectronic	SMA	Studer	Steca	Deye	Noark	GoodWe
CAN_H	4	7	1	4	4	4	4	4	4
CAN_L	5	8	2	5	5	5	5	5	5

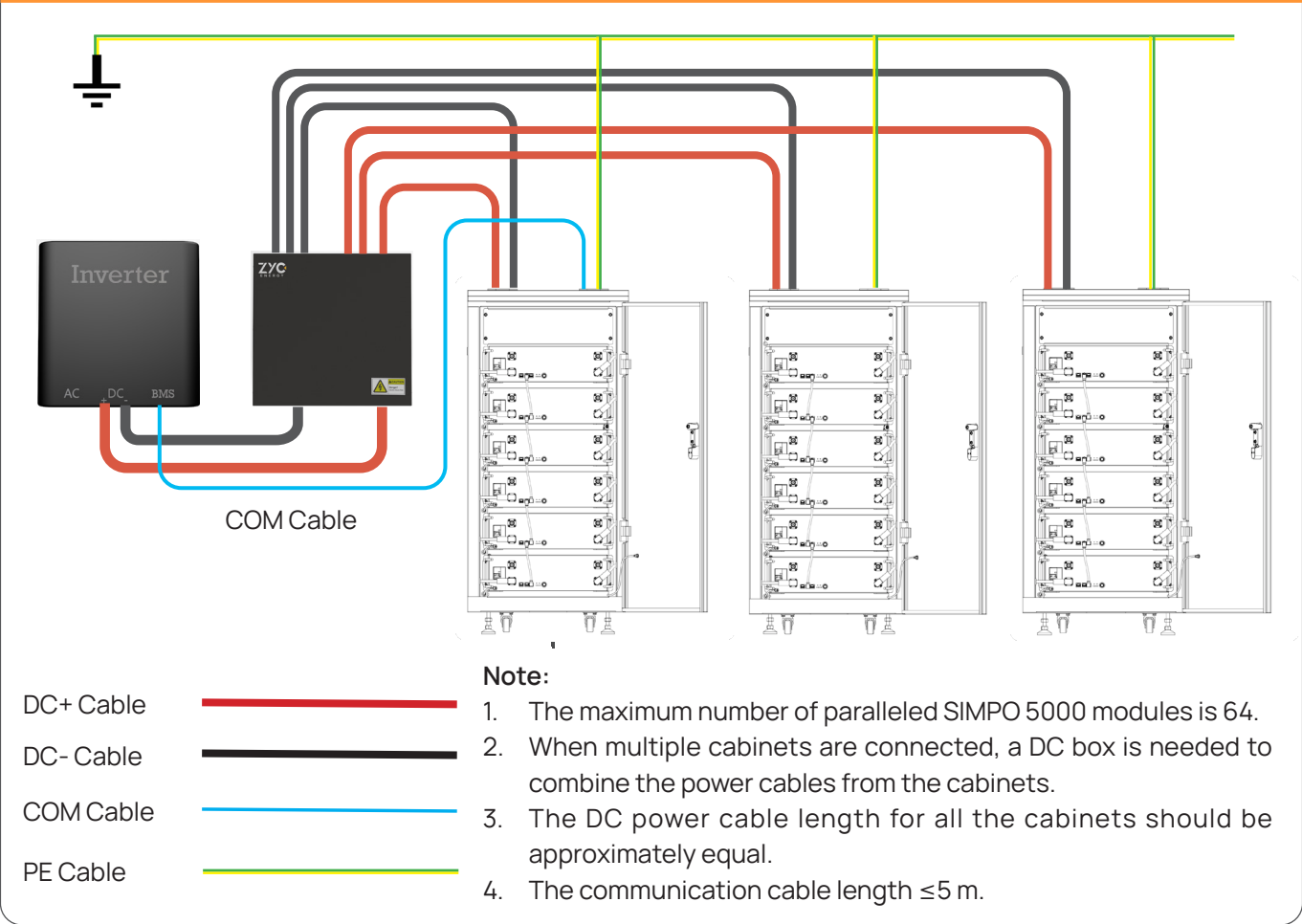
Matching with the **RS485** Communication inverters as below:

	SIMPO 5000	Lux Power
RS485A	8	2
RS485B	7	1

Connect Communication Cables for Multiple Cabinets In Parallel



Connect Power Cables & PE Cables & Communication Cable





## Switch to No Communication Mode

The SIMPO 5000 can operate normally without communication with the inverter. To switch to no-communication mode, please follow the procedures in the right figure.

Once the BMS is connected to the inverter with a communication cable, it will automatically switch to the communication mode.



### Operating procedure:

1. Power on the battery.
2. Press the "ON/OFF" button twice within 3 minutes.
3. The SOC indicators will flash 3 times.

## Power ON & Power OFF

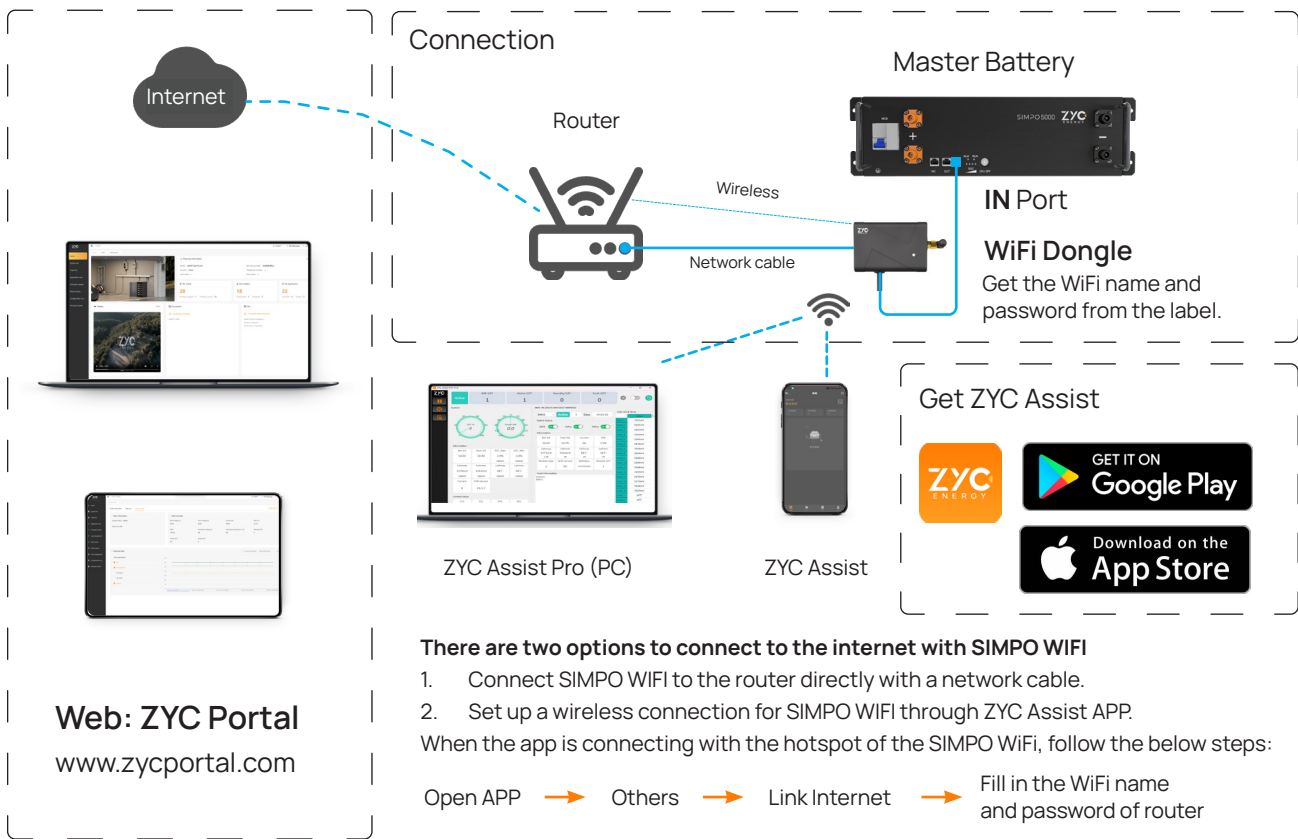
### System Start Up

1. Turn on the DC breaker between battery and inverter (If any).
2. Turn on all of the MCBs.
3. Press the 'ON/OFF' button of Master battery for 1 seconds to power on batteries.
4. Turn on the inverter.

### System Shutdown

1. Shut down the inverter.
2. Turn off the DC breaker between battery and inverter (If any).
3. Press and hold the ON/OFF button for 3 seconds on the Master battery to shut it down .
4. Make sure the LED on the battery is off.

## Connect to Internet & WiFi Usage & ZYC Portal & ZYC Assist APP



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