SIMPO HV Quick Start Guide

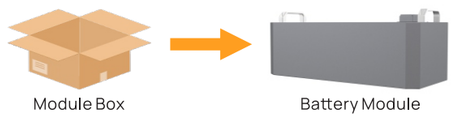
ZYC ENERGY CO., LTD

Safety Precaution

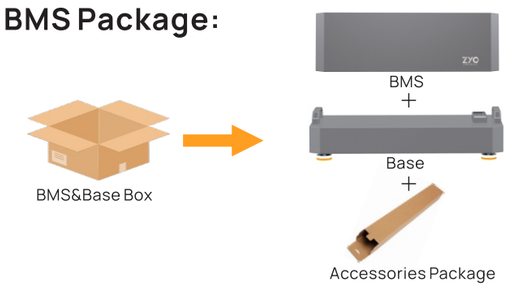
- **Important**: Installers and users are obliged to familiarise themselves with this manual.
- **Danger:** Power Cables and plugs have high voltage from the battery, be careful when wiring.
- **Important:** Ensure that a fire extinguisher is in place prior to installation and use.
- **Warning:** Installation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

Contents in SIMPO HV Package

Battery Package:



BMS Package:



Accessories Included:

A×3
Fixing part

B×3
Fixing part

C×1
Fixing part

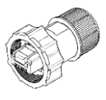
D×1
Fixing part

E×1
DC- Terminal

F×1
DC- Connector

G×1
DC+ Connector

H×1
DC+ Terminal



I×4
Rj45 Connectors

J×17
Bolt M5*10

K×2
Bolt M5*20

L×5
Expansion Screw

M×2
Power Cable fixing part

Extra Accessories

Extra accessories are not included in the accessory box but necessary for system build up.

DC Cables
(⩾8 AWG)

PE Cable with T terminal (SC10-5)
(⩾ 8AWG)

COM Cable
(Cat.5 or Upper)

Tools

Insulated gloves

Screwdriver

Safety Shoes

Drill

Multimeter

Crimper

Torque Wrench

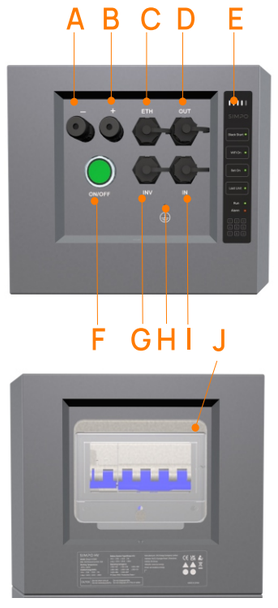
Wire Cutter

Utility Knife

Wrench

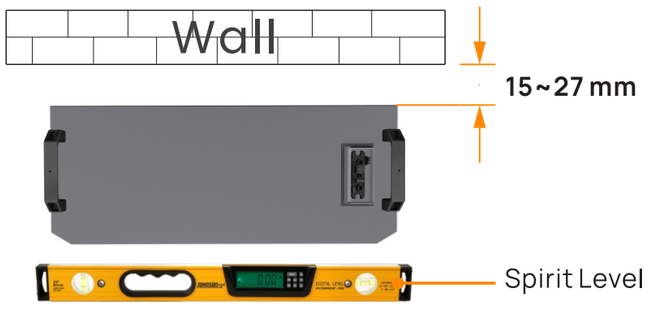
Spirit Level

Different Functional Area on BMS



Letter	Lable	Function
A	−	DC-
B	+	DC+
C	ETH	Ethernet
D	OUT	Com Out
E	HMI	Human Machine Interface
F	ON/FF	ON/OFF
G	INV	Inverter COM
H	PE	PE Connection
I	IN	COM In
J	/	Circuit Breaker

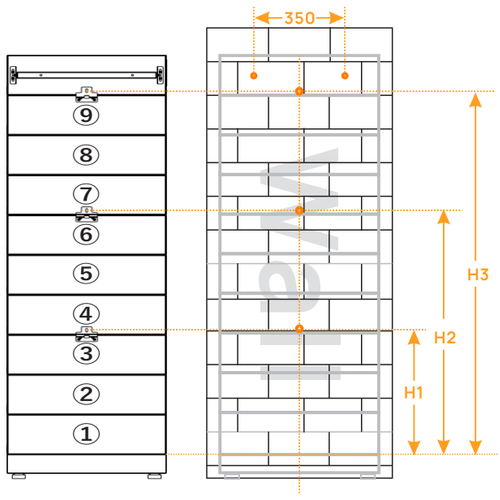
Place the base



- The base should be based on solid floor.
- A spirit level is recommended for use when adjusting the feet.

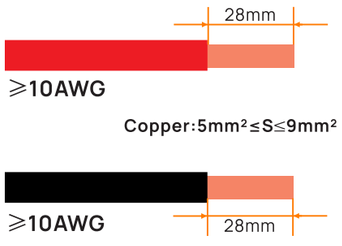
Position of Fixing Parts

Number ①-⑨represent module sequence only in this part.

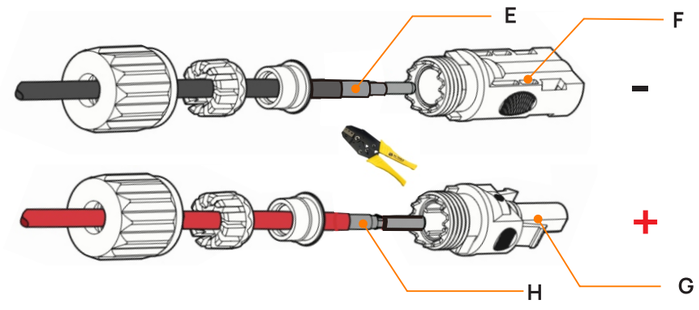


Module Qty per Tower	Position of module fixing parts	Height of Module Perforation	Height of BMS Perforation
2	NONE	NONE	475 mm
3	③	H1=591 mm	665 mm
4	④	H1=781 mm	855 mm
5	③&⑤	H1=591 mm H2=969 mm	1045 mm
6	③&⑥	H1=591 mm H2=1160 mm	1235 mm
7	③&⑦	H1=591 mm H2=1351 mm	1425 mm
8	③&⑥&⑧	H1=591 mm H2=1160 mm H3=1541 mm	1731 mm
9	③&⑥&⑨	H1=591 mm H2=1160 mm H3=1731 mm	1803 mm

Power Cables Crimping

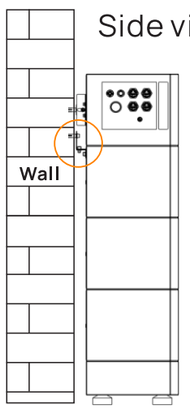


*Cables of 8/10 AWG is recommended to meet the need of SIMPO HV.
*Determine the cable size according to your system.

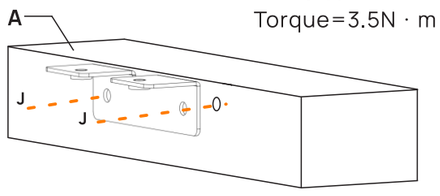


Fix To The Wall

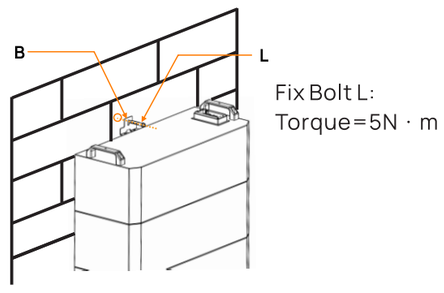
Fix Modules



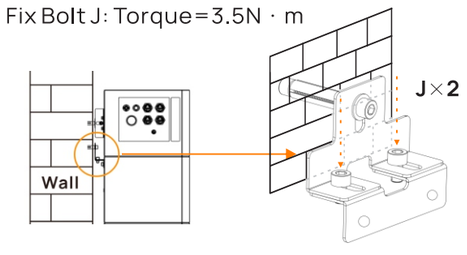
Step 1



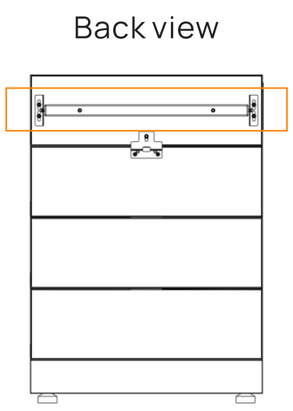
Step 2



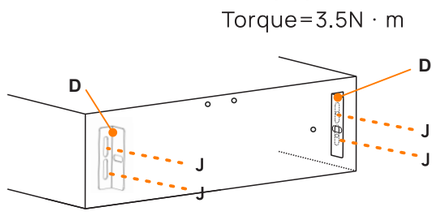
Step 3



Fix BMS



Step 1



Step 2

Step 3

+86 (0)755-2839 4019
sales@zyc.energy / service@zyc.energy
www.zyc.energy / www.zycportal.com
WhatsApp: +86 19168831702

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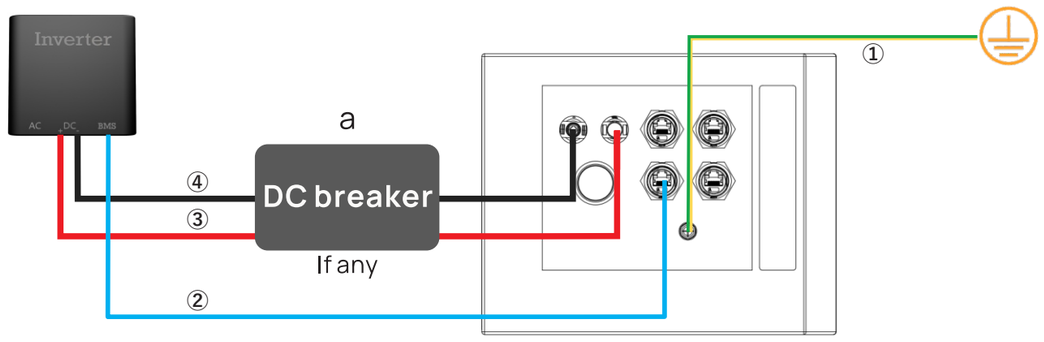
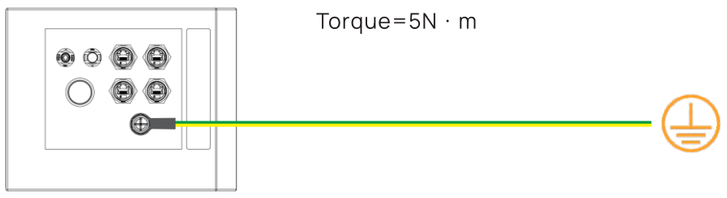
ZYC ENERGY CO., LTD

Cables Connection

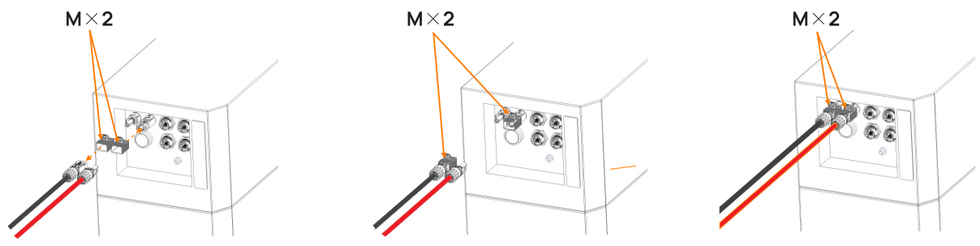
System Overview:



PE Cables Connection:



Power Cables Connection:

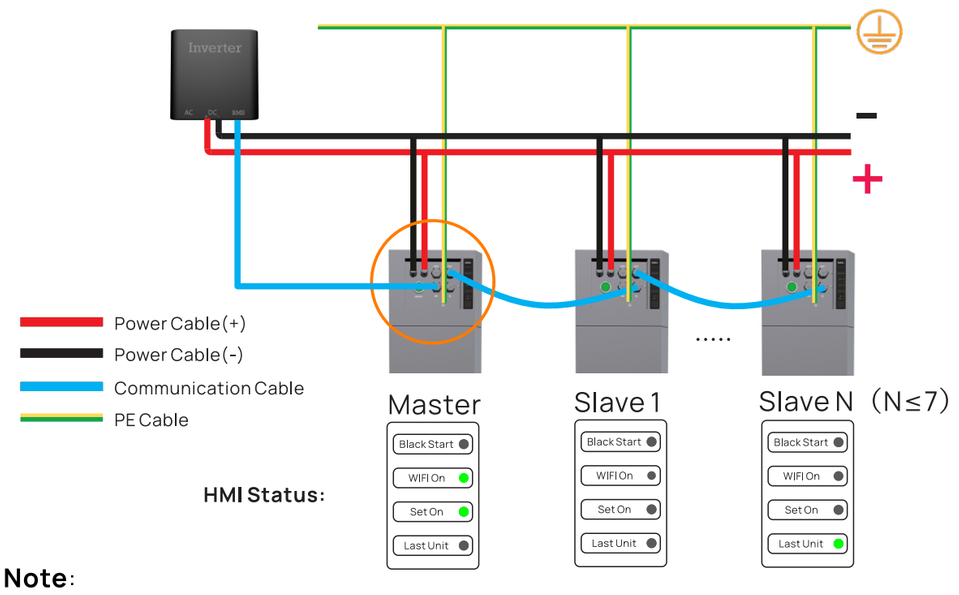


Communication Cables Connection:

Definition of SIMPO HV "INV" Port

PIN NO.	1	2	3	4	5	6	7	8
Definition	11VGND	12V	11V	CAN_H	CAN_L	12VGND	RS485B	RS485A

Parallel Multiple Towers



HMI Status:

Note:

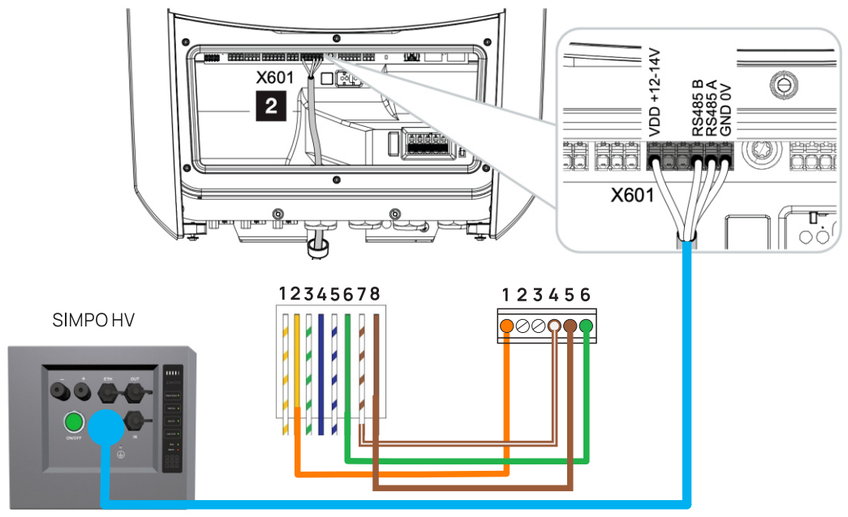
- When parallel multiple towers(⩽8) only the 'Set On' LED on master is ON.
- Only the 'Last Unit' LED of last tower(N) is ON.

Human Machine Interface (HMI)

Letter	Status	Operational State&Function	
a	▮▮▮▮▮	80%<SOC≤100%	Indicates the SOC of the system
	▮▮▮▮▮	60%<SOC≤80%	
	▮▮▮▮▮	40%<SOC≤60%	
	▮▮▮▮▮	20%<SOC≤40%	
	▮▮▮▮▮	0%<SOC≤20%	
	While discharging, the last LED flashes quickly (Once per second)		
	While charging, the last LED flashes slowly (Once per 2 seconds)		
b	●	Black Start On	Designed for off-grid systems. Press to supply energy to the inverter. Once the inverter starts working, LED will extinguish.
	●	DEFAULT	
c	●	Hotspot ON	1. Connecting with internet: Flash slowly. 2. Connecting with mobile device: Flash normally. 3. Non-connection: Solid ON .
	●	Hotspot OFF	
d	●	DEFAULT	Confirm the master tower. Make sure only the LED on master tower is ON. ***Master tower: which is directly connected to the inverter.**
	●		
e	●	DEFAULT	Confirm the last tower. Make sure only the LED on last tower is ON. ***Last tower: Last tower in parallel.**
	●		
f	●	DEFAULT	'FAULT' when communication fault occurs.
	●	FAULT	
g	●	DEFAULT	Alarm when serious fault includes over-voltage and over-current etc.
	●	FAULT	
h	1	DEFAULT	Number 1-9 correspond modules from top to bottom.
	1	FAULT	

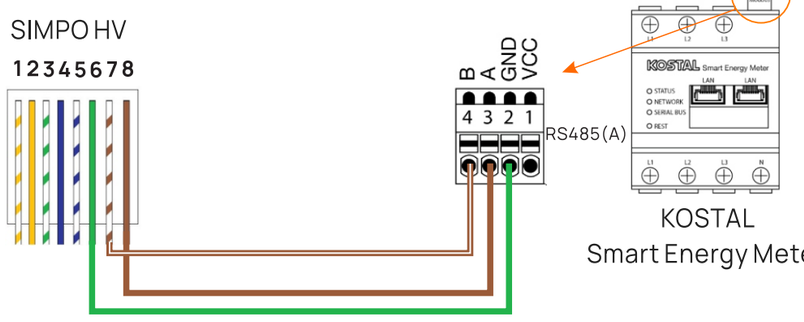
Connection With Inverters

Connecting with **Kostal Plenticore Plus/Plenticore BI**



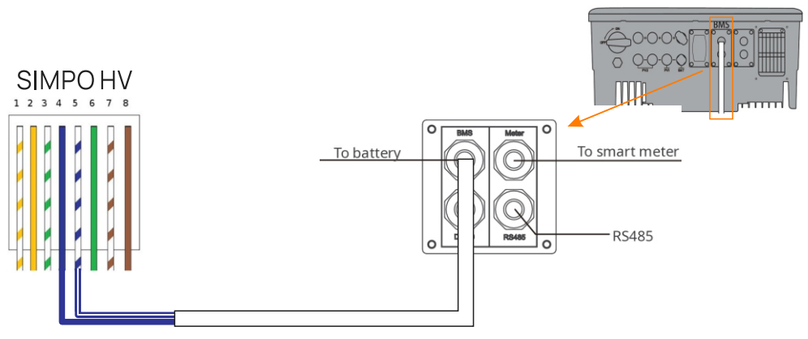
SIMPO HV PIN NO.	KOSTAL PIN NO.
2	1
6	6
7	4
8	5

Connecting with **Kostal Piko MP Plus**



SIMPO HV PIN NO.	KOSTAL PIN NO.
6	2
7	4
8	3

Connecting with **GoodWe** Inverters

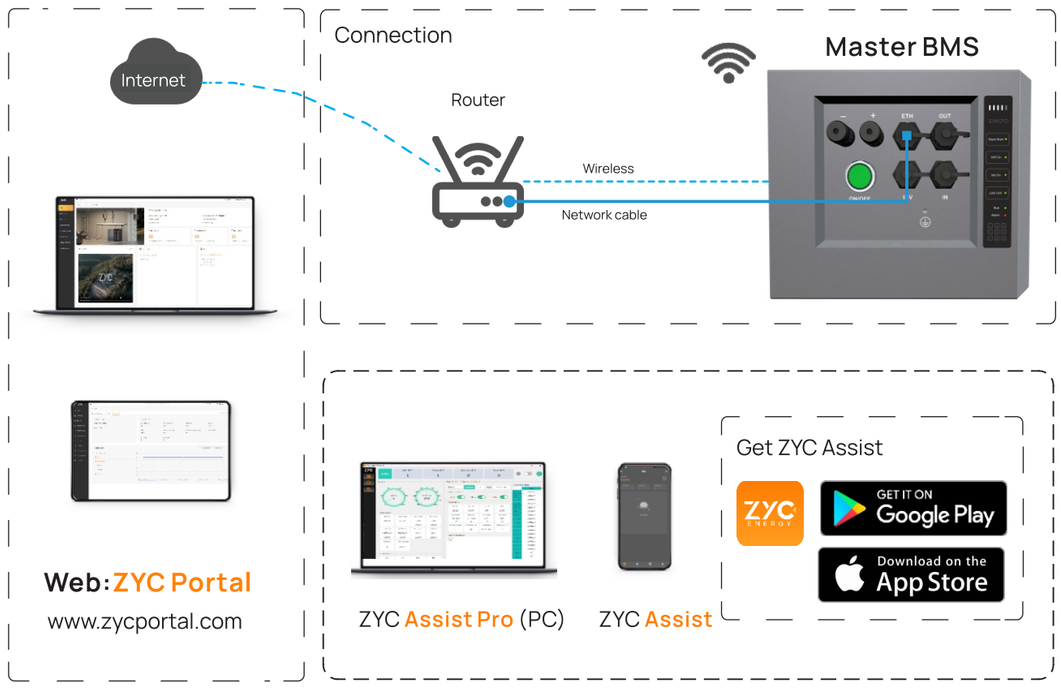


SIMPO HV PIN NO.	GoodWe PIN NO.
4	4
5	5

Start Up

a.Turn on the **DC breaker** between battery and inverter(if any).
b.Turn on the **Air Switch.**
c.Press **'ON/OFF'** to start the system.

Connect to Internet & ZYC Portal & ZYC Assist



There are two options to connect to the internet with SIMPO WIFI

1. Connect SIMPO WIFI to the router directly with a network cable.
2. Set up a wireless connection for SIMPO WIFI through ZYC Assist APP.

When the app is connecting with the hotspot of the SIMPO WiFi, follow the below steps:

Open ZYC Assist APP → Others → Connect to Internet → Fill in the WiFi name and password of Router

+86 (0)755-2839 4019 sales@zyc.energy / service@zyc.energy

www.zyc.energy / www.zycportal.com WhatsApp: +86 19168831702