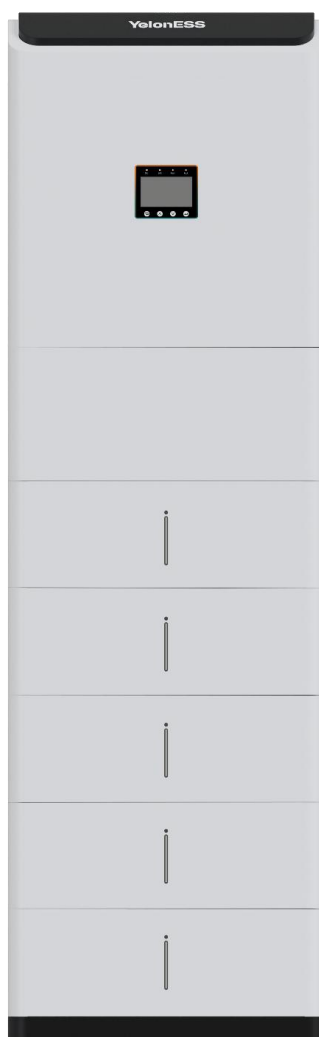




ComboX-3HS Series

All-in-one ESS

User Manual



Contents

1. About this Manual	1
1.1 Applicable Product Model	1
1.2 For Users	1
2. Safety Precautions	1
2.1 Symbol Description	1
2.2 Precautions	2
2.3 Precautions for Battery Component	2
2.4 Precautions for PV Strings	2
2.5 CE Directive	3
3. Product Introduction	3
3.1 Model Description	3
3.2 Dimensions	4
3.3 Module Introduction	6
3.4 Nameplate	10
3.5 Tech Specs	10
3.6 Application Scenario	19
3.7 Working Mode Introduction	19
4. Installation	21
4.1 Packing List	21
4.2 Preparation	22
4.3 Installation Requirements	22
4.4 Unpacking and Handling	23
4.5 Installation Methods	24
5. Electrical Connections	27
5.1 Electrical Connection Diagram	27
5.2 Installation Precautions	28
5.3 Preparation	28
5.4 Grounding	29
5.5 PV Connection	30
5.6 EPS Connection	31
5.7 GRID Connection	33
5.8 Side Panel Mounting	34
5.9 Auxiliary Meter Connection	35
5.10 DRM Connection	36
5.11 DI/DO Connection	38
5.12 Wireless Kit Connection	39

5.13	APP Connection	39
6.	Operation Method	40
6.1	Inverter Module Control Panel Introduction	40
6.2	Inverter Module Indicator	40
6.3	Setup Guide	40
6.4	Battery Module Operation	42
6.5	Battery Module Indicator	42
7.	Test Run	43
7.1	Check Before Power On	43
7.2	Power On	43
7.3	Power Off	43
8.	Wireless Kit Introduction	44
9.	Troubleshooting and Maintenance	44
9.1	Alarm List	44
9.2	Battery Module FAQ	46
9.3	Maintenance Precautions	47
9.4	Recycle and Disposal	48

1. About this Manual

1.1 Applicable Product Model

This manual is suitable for the following models:

ComboX-3HS-6kW/9.6kWh, ComboX-3HS-6kW/14.4kWh, ComboX-3HS-6kW/19.2kWh, ComboX-3HS-6kW/24kWh, ComboX-3HS-8kW/9.6kWh, ComboX-3HS-8kW/14.4kWh, ComboX-3HS-8kW/19.2kWh, ComboX-3HS-8kW/24kWh, ComboX-3HS-10kW/9.6kWh, ComboX-3HS-10kW/14.4kWh, ComboX-3HS-10kW/19.2kWh, ComboX-3HS-10kW/24kWh, ComboX-3HS-12kW/9.6kWh, ComboX-3HS-12kW/14.4kWh, ComboX-3HS-12kW/19.2kWh, ComboX-3HS-12kW/24kWh.

This manual introduces product information, installation, electrical connection, using methods, troubleshooting and maintenance. Please read this manual carefully to understand the safety information, functions and features before you install and use the product.

1.2 For Users








This product is suitable for professionals who are familiar with local laws and regulations related to power grid and electrical systems. Meanwhile, they shall get professional training and get themselves familiar with the knowledge related to the products.







2. Safety Precautions

2.1 Symbol Description

The safety precautions mentioned in this manual must always be followed when you operate the product. This product has been designed in strict accordance with safety regulations. The products have passed the tests and obtained relevant certificates. When installing or using this product, please follow the safety instructions. Improper operation may result in injury or property losses.

The following types of safety instructions and general information appear in this manual as follows:

	High voltage warning High voltage during operation
	Warnings, Dangers and Precautions Failure to follow the warnings in this manual could result in injury
	Heat Hazard During the operation, parts of the cover, housing, and heat sink of the inverter will generate heat, which may cause burns.
	Grounding
	Instructions Please read this user manual before install and operate the product.
	Capacitor Discharge Delay After the device is powered off, please wait for at least 10 minutes to fully discharge before performing maintenance.
	Do not reversely connect the positive and negative.

	Do not place the device near flame.
	Keep out of the reach of children and pet.
	Warning: Fire Do not place near flammable material.
	CE mark. The inverter complies with the requirements of the applicable CE guild lines and LVD requirements.
	The certificate label for TUV.
	The device may not be disposed of as household waste. Please dispose of the device according to local laws and regulations.

2.2 Precautions Please read this manual carefully before installation. It is important and necessary to get yourself familiar with the product, safety precautions, and the correct operation method.

- 2) Only professional and qualified electrical technicians can operate this product. The operators need to be familiar with relevant local standards and safety regulations.
- 3) Use insulated tools and wear personal protective equipment to ensure safety during the operation. When touching electronic devices, wear anti-static gloves, bracelets, anti-static clothing, etc., to protect the product from electrostatic damage.
- 4) Do not install the product in an environment outside of the operation temperature or humidity range listed in the manual.
- 5) Equipment damage or personal injury caused by failure to install, use, and configure this product under the requirements of this manual is not within the scope of responsibility of the equipment manufacturer.

2.3 Precautions for Battery Component

- 1) If the battery is stored for a long time, it is required to charge them every 6 months, and the SOC should be no less than 90%.
- 2) After being fully discharged, battery needs to be recharged within 12 hours.
- 3) Please contact YelonESS or YelonESS Authorized Partner within 24 hours if the battery is not working normally.
- 4) Do not use cleaning solvents to clean battery.
- 5) Do not expose battery to flammable or harsh chemicals or vapors.
- 6) Do not paint any part of battery, include any internal or external components.
- 7) Any foreign object is prohibited to be inserted into any part of battery.

2.4 Precautions for PV Strings

- 1) Please use the PV connectors (included with this product) to connect to the PV terminals. Using other DC connectors may lead to serious consequences, and the equipment damage caused by this

is not within the scope of the product warranty.

- 2) Make sure the PV module frame and support system are well grounded.
- 3) Make sure the DC cables are securely connected and tightened.
- 4) Use a multimeter to measure the positive and negative poles of the DC cable to ensure they are not reversely connected. Make sure the voltage is within the allowable range.
- 5) Do not connect one PV string to multiple devices. Otherwise, the device may be damaged.
- 6) The connected PV panels should be IEC 61730 certified and the max system voltage of the panels should match the max system voltage of the inverter.
- 7) Please be aware when the PV panels are exposed to sunlight, because there might be high voltage electricity.

2.5 CE Directive

This chapter follows the requirements of the European Low Voltage Directive, which contains safety instructions and acceptable conditions by import duty systems.

The operators must follow these instructions and conditions while installing, operating and maintaining the equipment. Ignoring them may lead to injury. If you do not understand a hazard, warning, or instruction, contact the local authorized YelonESS partner before installing, operating and servicing the equipment.

3. Product Introduction

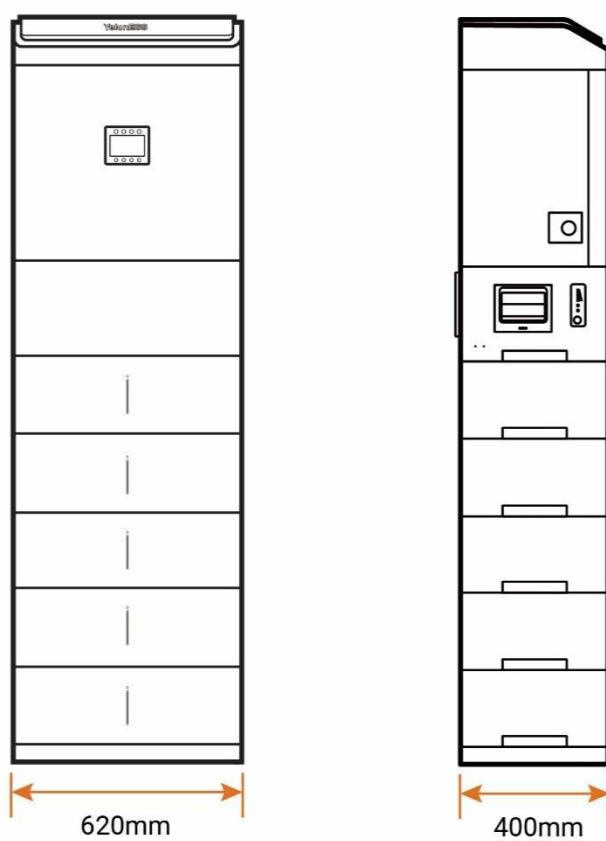
3.1 Model Description

The model description is as follows (take ComboX-3HS-12kW/24kWh as an example):

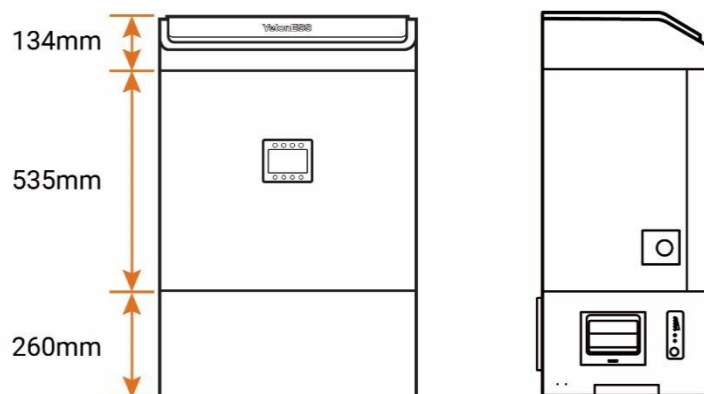


3.2 Dimensions

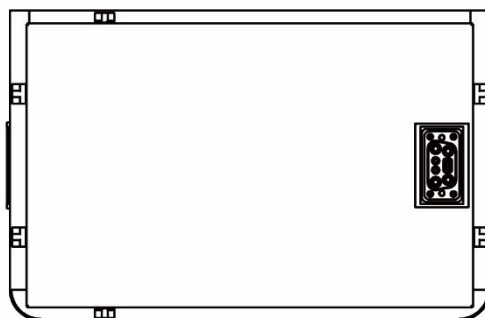
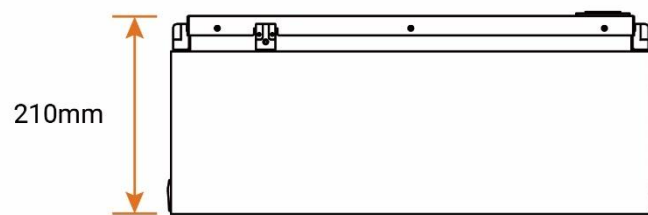
1) Overall



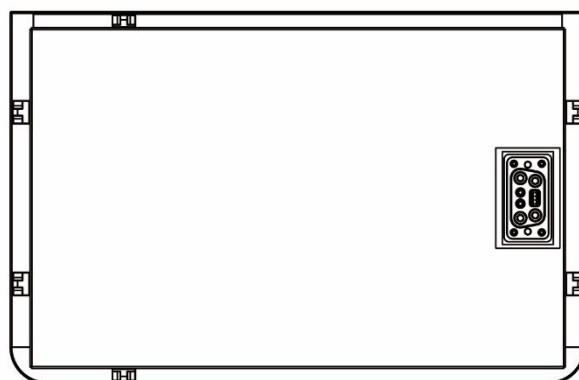
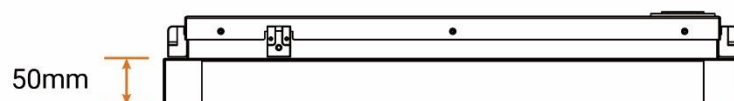
2) Inverter Module(HV*K-3HX series)



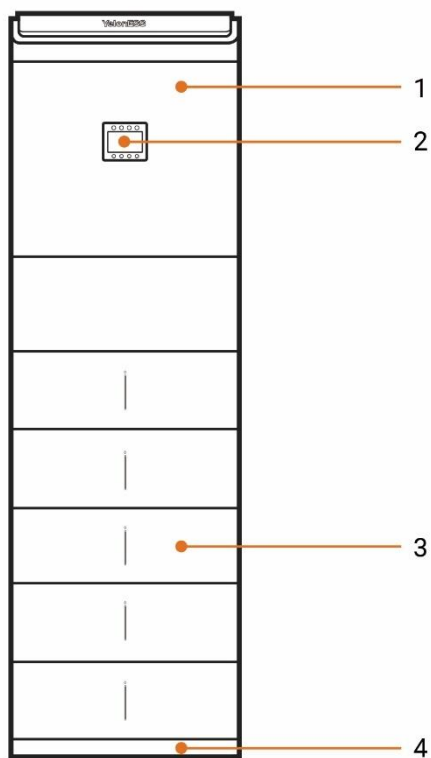
3) Battery Module



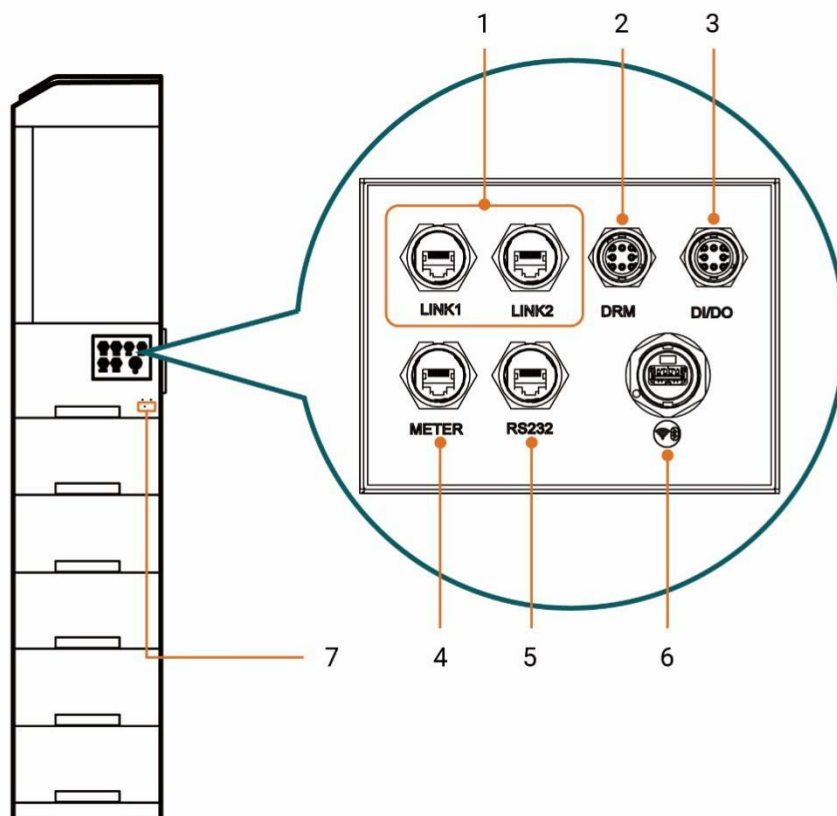
4) Base



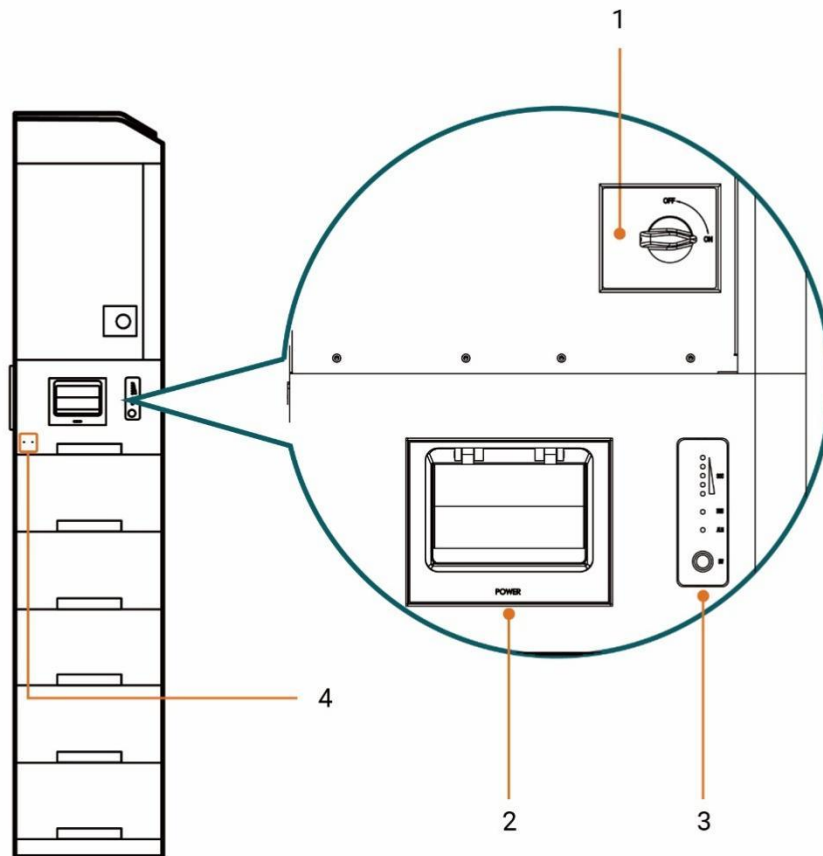
3.3 Module Introduction



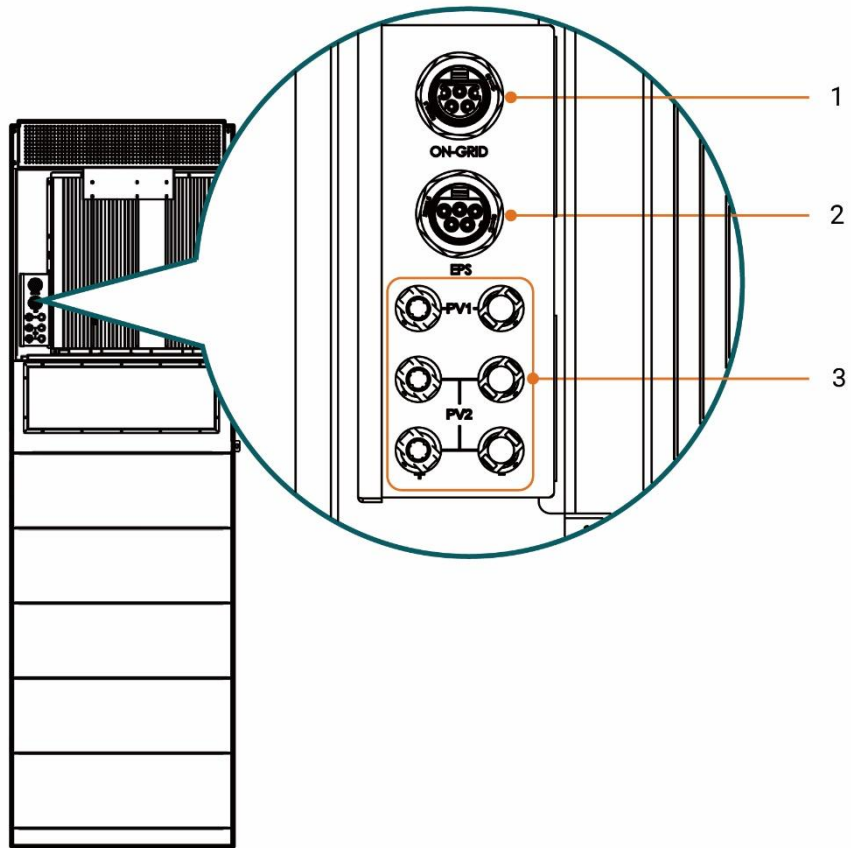
No.	Description
1	Inverter Module (HV6K-3HX, HV8K-3HX, HV10K-3HX, HV12K-3HX)
2	Control Panel
3	Battery Module
4	Base



No.	Description
1	Terminal LINK1/LINK2
2	Terminal DRM
3	Terminal DI/DO
4	Auxiliary Meter Terminal
5	Communication Terminal
6	Wireless Kit Connection Terminal
7	Grounding Terminal



No.	Description
1	DC Switch
2	Battery Module Switch
3	Battery Module Indicator
4	Support Bracket



No.	Description
1	GRID Terminal
2	EPS Terminal
3	PV Terminal

3.4 Nameplate

The nameplate is for reference only.

YelonESS

All-in-one ESS

<input checked="" type="checkbox"/> ComboX-3HS -6kW/9.6kWh	<input type="checkbox"/> ComboX-3HS -6kW/14.4kWh	<input type="checkbox"/> ComboX-3HS -6kW/19.2kWh	<input type="checkbox"/> ComboX-3HS -6kW/24kWh
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Battery

Max. charging/discharging power		6000W/6000W	
Nominal energy	9600Wh	14400Wh	19200Wh
Nominal voltage	192Vd.c.	288Vd.c.	384Vd.c.
Battery type		Lithium-ion	480Vd.c.

PV input

Recommended PV array power	9000W
Max. input voltage	1000Vd.c.
MPPT voltage range	200~950Vd.c.
Max. input current	14/14Ad.c.
Isc PV	17/17Ad.c.

Grid output/input

Rated AC voltage	230V/400Va.c. 3L+N+PE
Rated grid frequency	50/60Hz
Rated output power	6000W
Max. continuous output apparent power	6600VA
Max. AC output current	9.5Aa.c.
Max. continuous input apparent power	12000VA
Max. AC input current	17.3Aa.c.

Backup output

Rated voltage	230V/400Va.c. 3L+N+PE
Rated frequency	50/60Hz
Rated output power	6000W
Max. AC output current	9.5Aa.c.

Others

Adjustable power factor	0.8 leading~0.8 lagging
Topology	Non-isolated
Protective class	Class I
Ingress protection	IP65
Overvoltage category	III(AC), II(DC)
Operating temperature range*	-15~+50°C/0~+50°C(Charging)/-15~+50°C(Discharging)

*Charging mode=40°C derating, other modes=45°C derating

IFP/41/150/102/[(30S)2S]E/-10+50/90

JIANGSU DAYBRIGHT INTELLIGENT ENERGY CO., LTD

Add: NO. 223 Jiangjun Avenue, Jiangning District, Nanjing, China

Email: service@yeloness.com

Web: www.yeloness.com

Made in China

S/N

Logo and product type and model

Product technical specification

Product safety and certification signage

Contact info and SN

Importer: Address: Email: Web:	Importer information
---	----------------------

3.5 Tech Specs

Model	ComboX-3HS-6kW/ 9.6kWh	ComboX-3HS-6kW/1 4.4kWh	ComboX-3HS-6kW/1 9.2kWh	ComboX-3HS-6kW/ 24kWh
Battery				
Max. charging/discharging power	6000W/6000W			
Nominal energy	9600Wh	14400Wh	19200Wh	24000Wh
Nominal voltage	192Vd.c.	288Vd.c.	384Vd.c.	480Vd.c.
Upper limit charging voltage	216Vd.c.	324Vd.c.	432Vd.c.	540Vd.c.
Discharge cut-off voltage	168Vd.c.	252Vd.c.	336Vd.c.	420Vd.c.

Battery type	Lithium-ion
Nominal capacity	50Ah
Overvoltage Category (OVC)	II
PV input	
Recommended PV array power	9000W
Max. input voltage	1000Vd.c.
MPPT voltage range	200~950Vd.c.
MPP Voltage Range for Full Power	270~750Vd.c.
Max. input current	14/14Ad.c.
Isc PV	17/17Ad.c.
Overvoltage Category (OVC)	II
Grid output/input	
Rated AC voltage	230V/400Va.c., 3L+N+PE
Operating Voltage Range	207~253Va.c.
Rated grid frequency	50/60Hz
Rated output power	6000W
Max. continuous output apparent power	6600VA
Max. AC output current	9.5Aa.c.
Max. continuous input apparent power	12000VA
Max. AC input current	17.3Aa.c.
Power Factor at Rated Power/Adjustable Power Factor	>0.99 (0.8 leading - 0.8 lagging)
Overvoltage Category (OVC)	III
Backup output	
Rated voltage	230V/400Va.c., 3L+N+PE
Rated frequency	50/60Hz

Rated output power	6000W			
Max. Output Apparent Power	6600VA			
Max. AC output current	9.5Aa.c.			
Others				
Dimensions(W*H*D)	620*1399*400 mm	620*1609*400 mm	620*1819*400 mm	620*2029*400 mm
Weight	199.4 kg	257.2 kg	315.0 kg	372.8 kg
Topology	Transformerless			
Operating Temperature Range	-15~+50°C (Charging mode>40°C derating, other modes>45°C derating)			
Temperature Range For Charging	0~+50°C			
Temperature Range For Discharging	-15~+50°C			
Relative Humidity	0 to 95% (no condensing)			
Ingress Protection	IP65			
Cooling Method	Natural Convection			
Max. Operating Altitude	2000m			
Acoustic Noise	< 40 dB			
Display	LCD, APP			
Communication(Meter)	RS485			
Protective Class	Class I			

Model	ComboX-3HS-8kW /9.6kWh	ComboX-3HS-8kW/ 14.4kWh	ComboX-3HS-8kW/ 19.2kWh	ComboX-3HS-8kW /24kWh
Battery				
Max. charging/discharging power	8000W/8000W			
Nominal energy	9600Wh	14400Wh	19200Wh	24000Wh
Nominal voltage	192Vd.c.	288Vd.c.	384Vd.c.	480Vd.c.
Upper limit charging voltage	216Vd.c.	324Vd.c.	432Vd.c.	540Vd.c.
Discharge cut-off voltage	168Vd.c.	252Vd.c.	336Vd.c.	420Vd.c.
Battery type	Lithium-ion			
Nominal capacity	50Ah			

Overvoltage Category (OVC)	II			
PV input				
Recommended PV array power	12000W			
Max. input voltage	1000Vd.c.			
MPPT voltage range	200~950Vd.c.			
MPP Voltage Range for Full Power	300~750Vd.c.			
Max. input current	14/14Ad.c.			
Isc PV	17/17Ad.c.			
Overvoltage Category (OVC)	II			
Grid output/input				
Rated AC voltage	230V/400Va.c., 3L+N+PE			
Operating Voltage Range	207~253Va.c.			
Rated grid frequency	50/60Hz			
Rated output power	8000W			
Max. continuous output apparent power	8800VA			
Max. AC output current	12.7Aa.c.			
Max. continuous input apparent power	16000VA			
Max. AC input current	23.1Aa.c.			
Power Factor at Rated Power/Adjustable Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
Overvoltage Category (OVC)	III			
Backup output				
Rated voltage	230V/400Va.c., 3L+N+PE			
Rated frequency	50/60Hz			
Rated output power	8000W			
Max. Output Apparent Power	8800VA			
Max. AC output current	12.7Aa.c.			
Others				
Dimensions(W*H*D)	620*1399*400 mm	620*1609*400 mm	620*1819*400 mm	620*2029*400 mm

Weight	199.4 kg	257.2 kg	315.0 kg	372.8 kg
Topology	Transformerless			
Operating Temperature Range	-15~+50°C (Charging mode>40°C derating, other modes>45°C derating)			
Temperature Range For Charging	0~+50°C			
Temperature Range For Discharging	-15~+50°C			
Relative Humidity	0 to 95% (no condensing)			
Ingress Protection	IP65			
Cooling Method	Natural Convection			
Max. Operating Altitude	2000m			
Acoustic Noise	< 40 dB			
Display	LCD, APP			
Communication(Meter)	RS485			
Protective Class	Class I			

Model	ComboX-3HS-10k W/9.6kWh	ComboX-3HS-10kW /14.4kWh	ComboX-3HS-10kW /19.2kWh	ComboX-3HS-10k W/24kWh
Battery				
Max. charging/discharging power	9360W/9600W	10000W/10000W		
Nominal energy	9600Wh	14400Wh	19200Wh	24000Wh
Nominal voltage	192Vd.c.	288Vd.c.	384Vd.c.	480Vd.c.
Upper limit charging voltage	216Vd.c.	324Vd.c.	432Vd.c.	540Vd.c.
Discharge cut-off voltage	168Vd.c.	252Vd.c.	336Vd.c.	420Vd.c.
Battery type	Lithium-ion			
Nominal capacity	50Ah			
Overvoltage Category (OVC)	II			
PV input				
Recommended PV array power	15000W			
Max. input voltage	1000Vd.c.			
MPPT voltage range	200~950Vd.c.			
MPP Voltage Range for Full Power	360~750Vd.c.			
Max. input current	14/28Ad.c.			
Isc PV	17/34Ad.c.			
Overvoltage	II			

Category (OVC)				
Grid output/input				
Rated AC voltage	230V/400Va.c., 3L+N+PE			
Operating Voltage Range	207~253Va.c.			
Rated grid frequency	50/60Hz			
Rated output power	10000W			
Max. continuous output apparent power	11000VA			
Max. AC output current	15.9Aa.c.			
Max. continuous input apparent power	16000VA			
Max. AC input current	23.1Aa.c.			
Power Factor at Rated Power/Adjustable Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
Overvoltage Category (OVC)	III			
Backup output				
Rated voltage	230V/400Va.c., 3L+N+PE			
Rated frequency	50/60Hz			
Rated output power	10000W			
Max. Output Apparent Power	11000VA			
Max. AC output current	15.9Aa.c.			
Others				
Dimensions(W*H*D)	620*1399*400 mm	620*1609*400 mm	620*1819*400 mm	620*2029*400 mm
Weight	199.4 kg	257.2 kg	315.0 kg	372.8 kg
Topology	Transformerless			
Operating Temperature Range	-15~+50°C (Charging mode>40°C derating, other modes>45°C derating)			
Temperature Range For Charging	0~+50°C			
Temperature Range For	-15~+50°C			

Discharging	
Relative Humidity	0 to 95% (no condensing)
Ingress Protection	IP65
Cooling Method	Natural Convection
Max. Operating Altitude	2000m
Acoustic Noise	< 40 dB
Display	LCD, APP
Communication(Meter)	RS485
Protective Class	Class I

Model	ComboX-3HS-12kW/9.6kWh	ComboX-3HS-12kW/14.4kWh	ComboX-3HS-12kW/19.2kWh	ComboX-3HS-12kW/24kWh
Battery				
Max. charging/discharging power	9360W/9600W	12000W/12000W		
Nominal energy	9600Wh	14400Wh	19200Wh	24000Wh
Nominal voltage	192Vd.c.	288Vd.c.	384Vd.c.	480Vd.c.
Upper limit charging voltage	216Vd.c.	324Vd.c.	432Vd.c.	540Vd.c.
Discharge cut-off voltage	168Vd.c.	252Vd.c.	336Vd.c.	420Vd.c.
Battery type	Lithium-ion			
Nominal capacity	50Ah			
Overvoltage Category (OVC)	II			
PV input				
Recommended PV array power	15000W			
Max. input voltage	1000Vd.c.			
MPPT voltage range	200~950Vd.c.			
MPP Voltage Range for Full Power	430~750Vd.c.			
Max. input current	14/28Ad.c.			
Isc PV	17/34Ad.c.			
Overvoltage Category (OVC)	II			
Grid output/input				
Rated AC voltage	230V/400Va.c., 3L+N+PE			
Operating Voltage Range	207~253Va.c.			
Rated grid	50/60Hz			

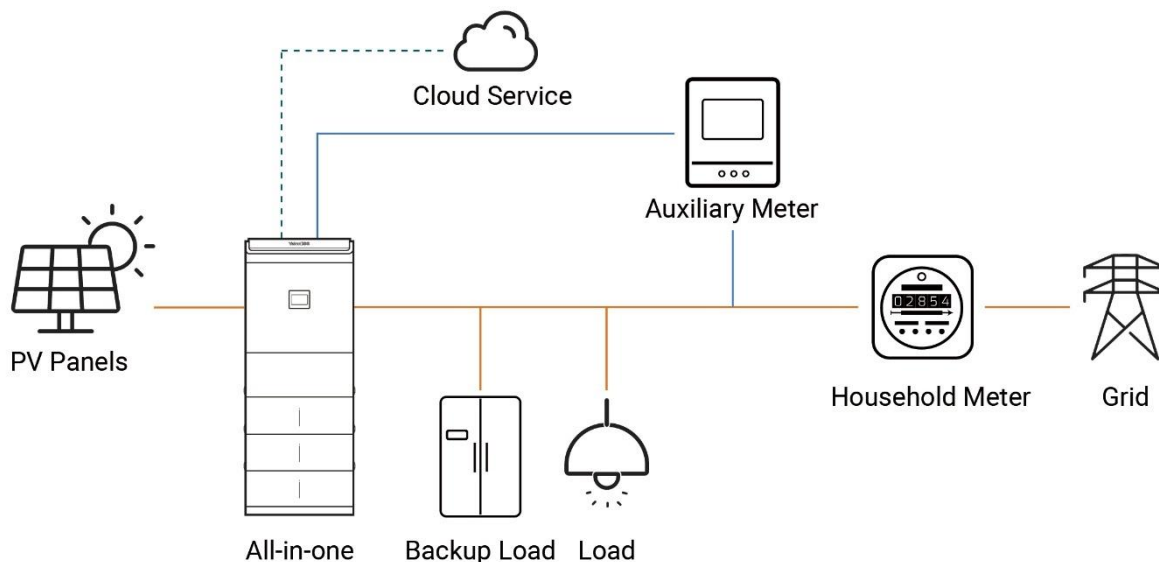
frequency				
Rated output power	12000W			
Max. continuous output apparent power	12000VA			
Max. AC output current	17.3Aa.c.			
Max. continuous input apparent power	16000VA			
Max. AC input current	23.1Aa.c.			
Power Factor at Rated Power/Adjustable Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
Overvoltage Category (OVC)	III			
Backup output				
Rated voltage	230V/400Va.c., 3L+N+PE			
Rated frequency	50/60Hz			
Rated output power	12000W			
Max. Output Apparent Power	12000VA			
Max. AC output current	17.3Aa.c.			
Others				
Dimensions(W*H*D)	620*1399*400 mm	620*1609*400 mm	620*1819*400 mm	620*2029*400 mm
Weight	199.4 kg	257.2 kg	315.0 kg	372.8 kg
Topology	Transformerless			
Operating Temperature Range	-15~+50°C (Charging mode>40°C derating, other modes>45°C derating)			
Temperature Range For Charging	0~+50°C			
Temperature Range For Discharging	-15~+50°C			
Relative Humidity	0 to 95% (no condensing)			
Ingress Protection	IP65			
Cooling Method	Natural Convection			
Max. Operating Altitude	2000m			

Acoustic Noise	< 40 dB
Display	LCD, APP
Communication(Meter)	RS485
Protective Class	Class I

Protection
Grid monitoring, PV insulation resistance detection, DC reverse polarity protection, AC short-circuit protection, AC over-current protection, AC over-voltage protection, Leakage current monitoring, DC switch (solar), DC over voltage protection (Battery), Anti-islanding protection

3.6 Application Scenario

ComboX-3HS series products integrate inverters and energy storage battery systems. The photovoltaic, loads and power grids build a local energy consumption system, which enhances energy reliability and reduces energy costs. The product has THREE working modes. Users can set the working modes flexibly according to user's needs.



3.7 Working Mode Introduction

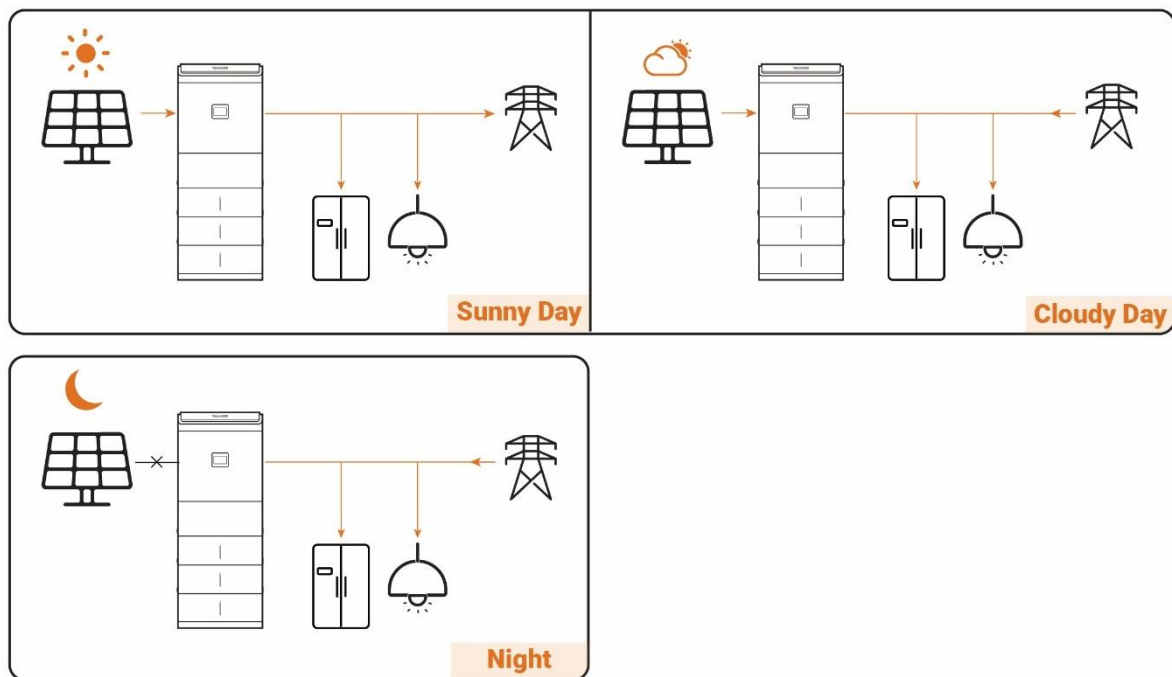
1) Self-consumption Mode

This model is suitable for areas where electricity prices are high and there are only small amounts or no subsidies for sending solar-generated electricity to the grid.

When there is sufficient sunlight during the day, the PV-generated electricity powers household loads in priority; the excess energy will be charged into the batteries; and the remaining energy will be sent to the grid (in the permitted scenario).

During the day with sufficient sunlight, the PV panels and the storage battery power the household loads together. If still not enough, the inverter will draw energy from the grid to meet the needs.

During the night when the battery is fully charged and the inverter has sufficient power, the battery will supply power to the loads. Otherwise, the inverter will draw energy from the grid to make up.

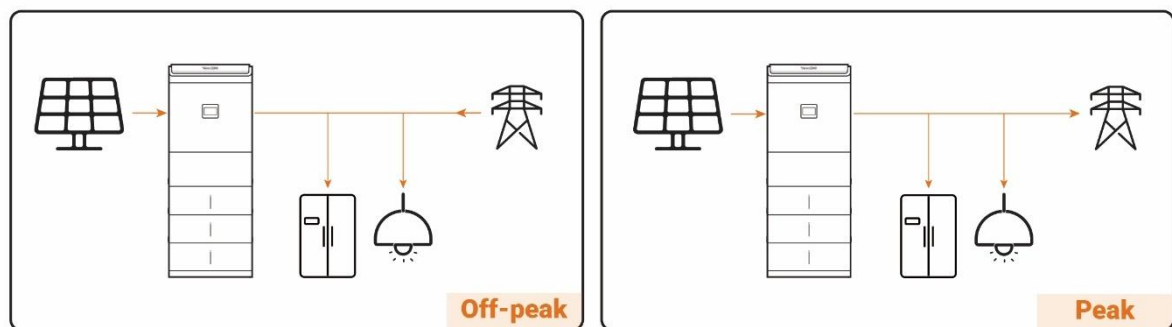


2) ECO Mode

This mode adds the charging and discharging time setting function compare to the self-consumption mode. Users can set battery charging time at off-peak hours and power household loads or send electricity to the grid.

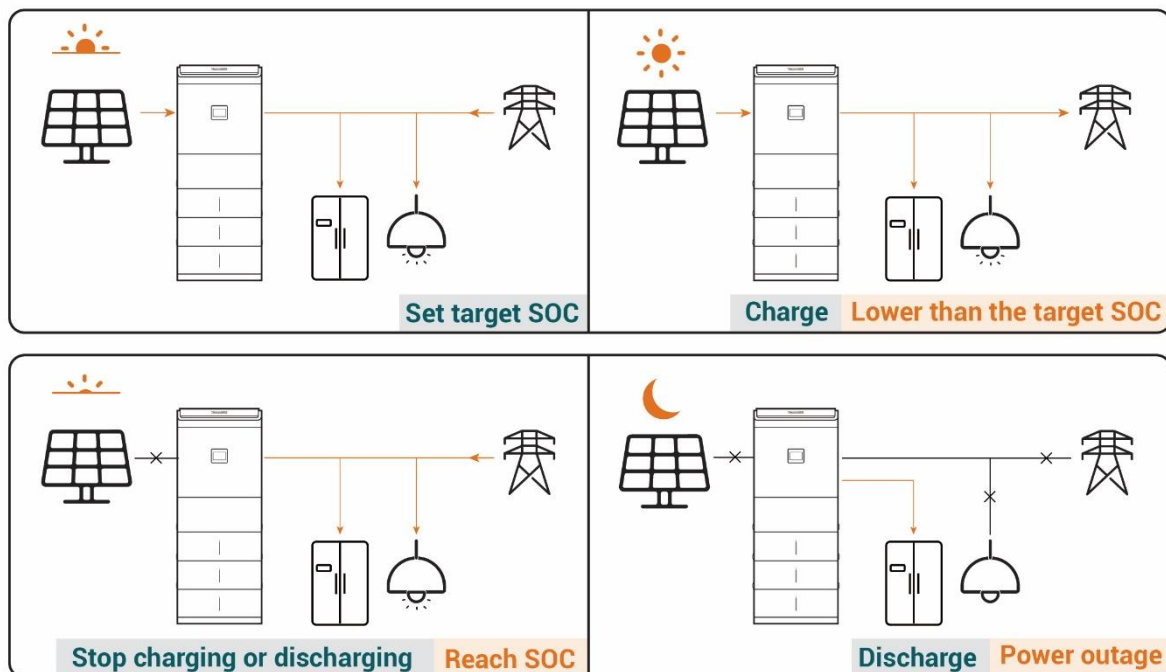
Off-peak: Charge the battery. If the PV power is insufficient to power the load and charge the battery, the grid will charge the battery.

Peak: Battery discharges to power the loads and sell the surplus to the grid.



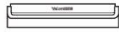
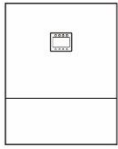
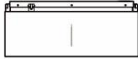

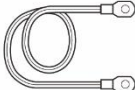







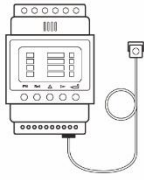


3) Backup Mode

This mode is recommended for areas with frequent power outage. The device will automatically charge the battery when the SOC is lower than the preset value until the value is reached. This mode ensures sufficient energy supply by the battery when there is an outage.



4. Installation

4.1 Packing List

				
Top Cover *1	Inverter Module *1	Battery Module *2~5	Base *1	Grounding Cable *1
				
PV+ Connector *3	PV- Connector *3	EPS Connector *1	Grid Connector *1	AC Terminal *10
				
Expansion Bolt *2	Support *2	Smart Meter *1	PV Connector Spanner *1	EPS & Grid Connector Spanner *1

Before signing for the equipment, please check the following:

- 1) Check the outer packaging for damage, such as deformation, holes, cracks, or other signs that

may cause damage to the device in the box. If damaged, do not open the package and contact the authorized dealer.

2) Check the inverter model. If the model differs from what you ordered, please do not open the package and contact the authorized dealer.

3) Check the type/model, quantity and appearance of the delivered products. In case of damage, please contact the authorized dealer.

4.2 Preparation



4.3 Installation Requirements

1) The protection level of this product meets the requirement of indoor and outdoor installation. The temperature and humidity of the installation environment must be within the range required by the manual.

2) This product is prohibited to be installed in flammable, explosive or corrosive environments.

3) To avoid danger when drilling, please do not install the product near water pipes, cables, etc.

4) This product should be installed in suitable places with no direct sunlight, rain or snow.

5) The installation space of this product must meet the requirements of ventilation, heat dissipation, and operating space. Please avoid installation in confined areas.

6) This product needs to be kept more than 2 meters away from the heat source.

7) The installation altitude of this product should be lower than the maximum working altitude.

- 8) Keep this product away from strong magnetic field environments to avoid electromagnetic interference.
- 9) This product should be installed on solid and reliable ground that can bear the weight of the equipment.
- 10) When installing this product against a wall, the wall should be flat, solid and reliable.
- 11) Keep the installation environment clean and tidy, and avoid dust, dirt. Do not stack many objects near the product.



Please note:

- * Do not install the device on wooden floors. Please install it on solid ground, such as concrete ground.
- * Ensure the ground is solid and will not deform or collapse.
- * If the ambient temperature exceeds the normal working range, the battery will stop working due to self-protection. The best operating temperature range is 10°C~40°C. Regular exposure to too high/low temperatures may reduce battery performance and service life.



Please note:

- * Do not place with the reach of children or pets.
- * Do not place near open flame or flammable material
- * Do not cover or wrap the product.
- * Do not sit or put heavy things on the product.
- * Do not touch the leaking liquid.
- * Avoid direct sunlight.
- * Avoid moisture or liquid.
- * Ground the product properly before operation.
- * If the product is leaking, burning, wet or damaged, switch off the breaker on DC side and stay away from the product.
- * Contact YelonESS or YelonESS Authorized Seller within 24 hours if any problem happens.

4.4 Unpacking and Handling

- 1) Unpack the inverter module and take out the supporting foam. At least FOUR operators are needed to take the inverter module out of the package and move it horizontally to the installation location.
- 2) Unpacking the battery module(s) and take out the supporting foam. At least TWO operators are needed to take the battery module out of the package and move it horizontally to the installation location.

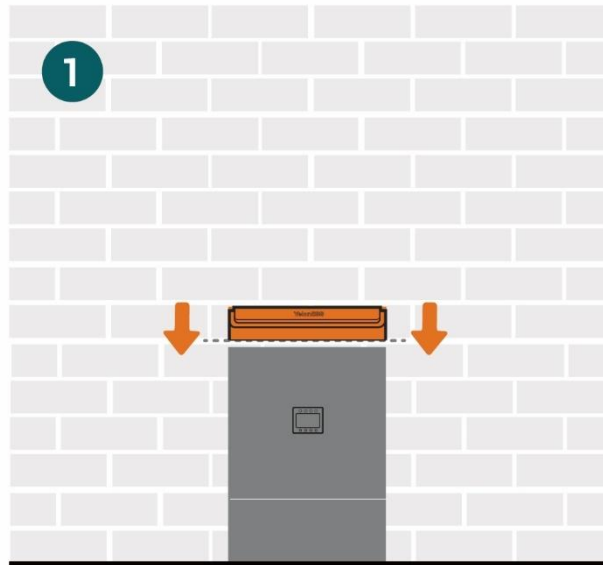


Please note:

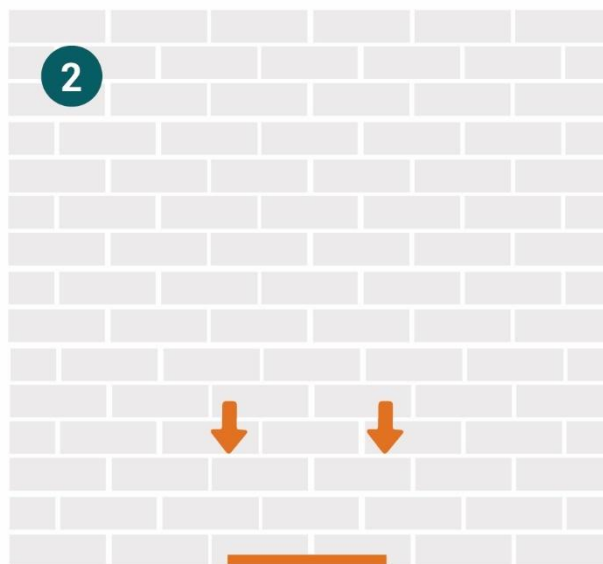
- * To avoid muscle strain or back injury, use proper lifting techniques or lifting aids when needed.
- * Please keep balance while handling the product to avoid injuries from equipment falling.
- * In case of bad weather, such as heavy rain, fog, strong wind, etc., please stop the operation to avoid colliding with walls or other obstacles during handling.

4.5 Installation Methods

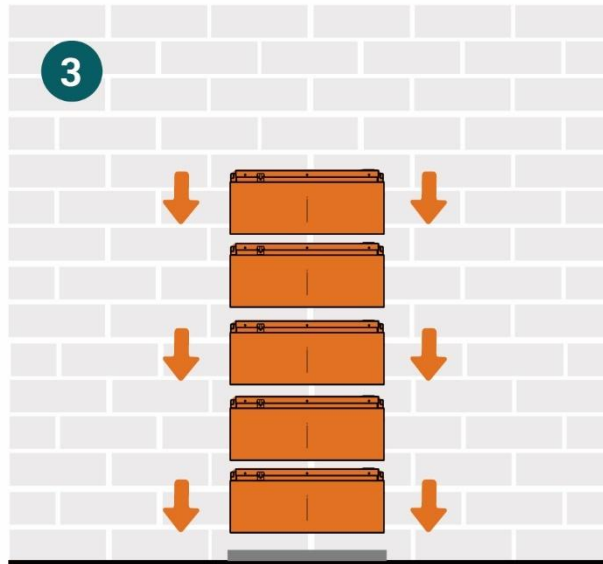
- 1) Install the top cover on the inverter module assembly and secure it with screws.



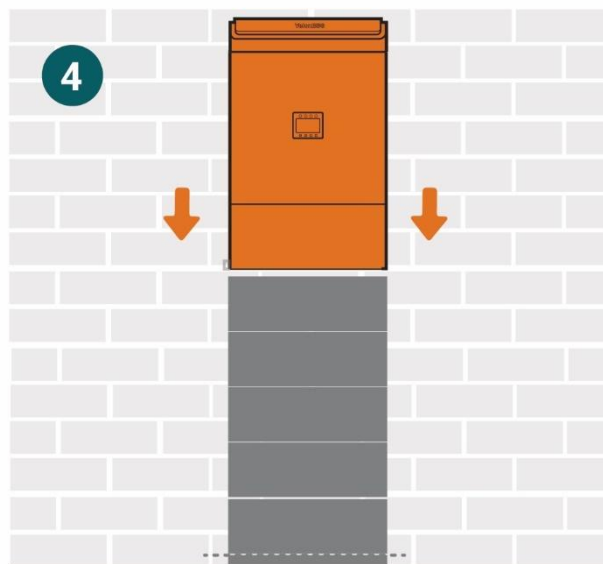
- 2) After selecting a suitable location, take out the base and place it on a level ground, ensuring that its surface remains level.



- 3) Stack the battery module on the base, and pay attention to the self-guiding pin.



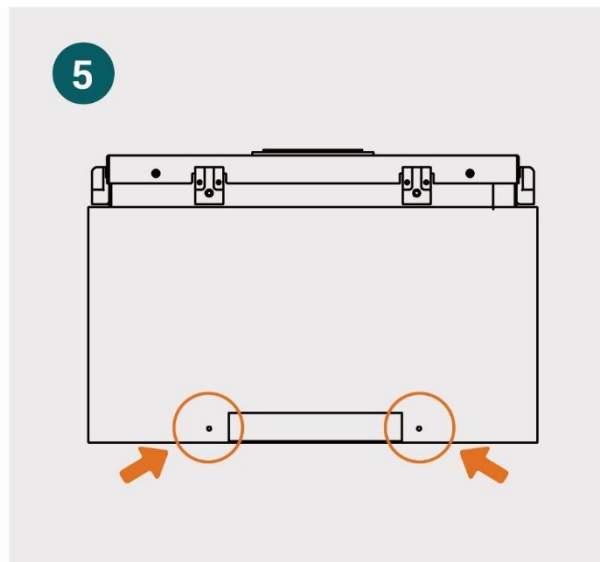
4) Place the inverter modules on the battery modules. Pay attention to the self-guiding pin of the inverter and the battery module.



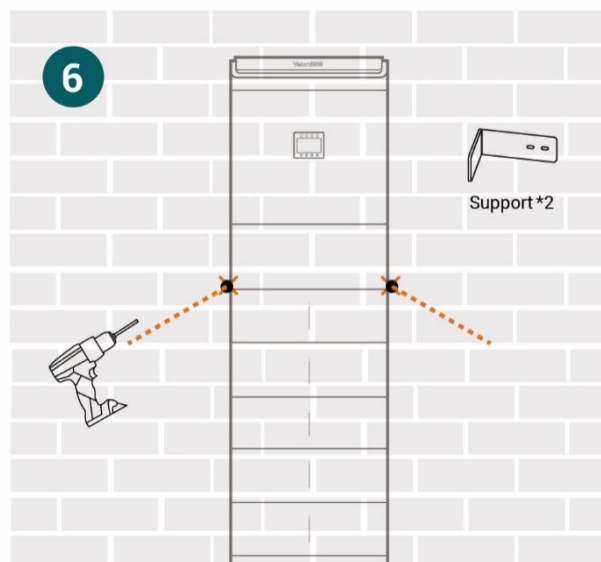


Please note:

- * Please raise the modules to at least 10 cm above the bottom surface and install them vertically.
 - * Do not move the modules horizontally with only a small distance between too modules, in case so you damage the self-guiding pin.
- 5) When the battery modules are installed, find the battery connection holes on both sides and fix them with screws.



- 6) Drill with a 10mm bit and make sure the hole is about 31mm deep. Install the supports. Finally, use expansion screws to fix the supports to the wall.





Please note:

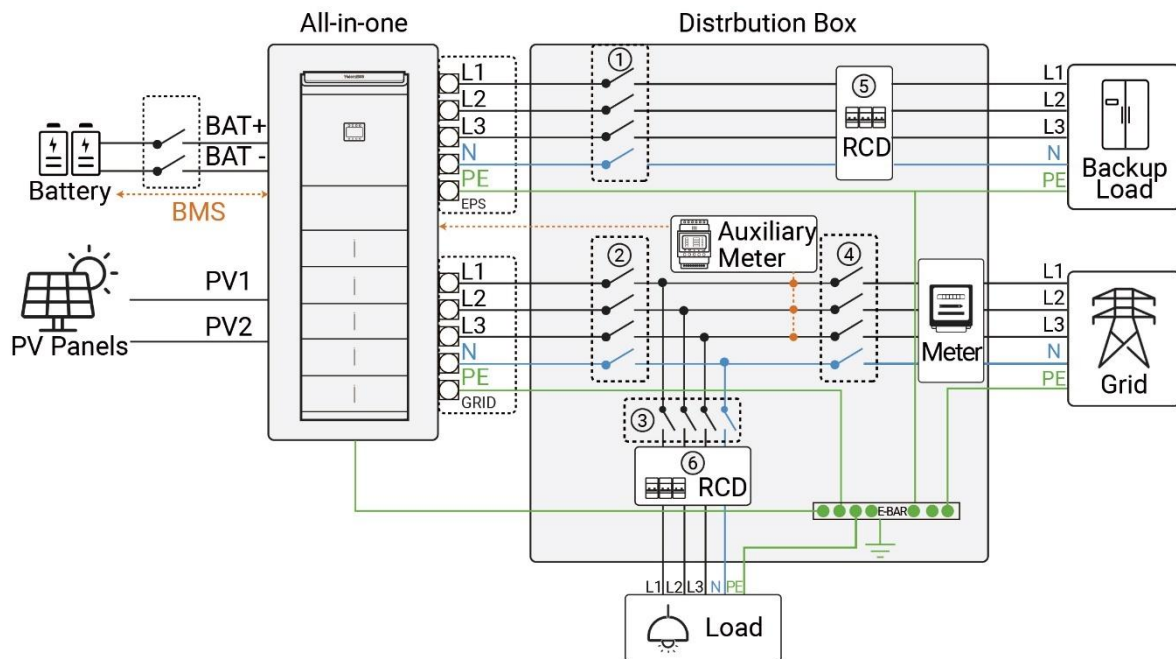
- * When installing the product and after the product has been fixed, please do not move the product to avoid scratches on the ground and product wearing.
- * After the installation, do not shake the device to prevent falling.

5. Electrical Connections

5.1 Electrical Connection Diagram

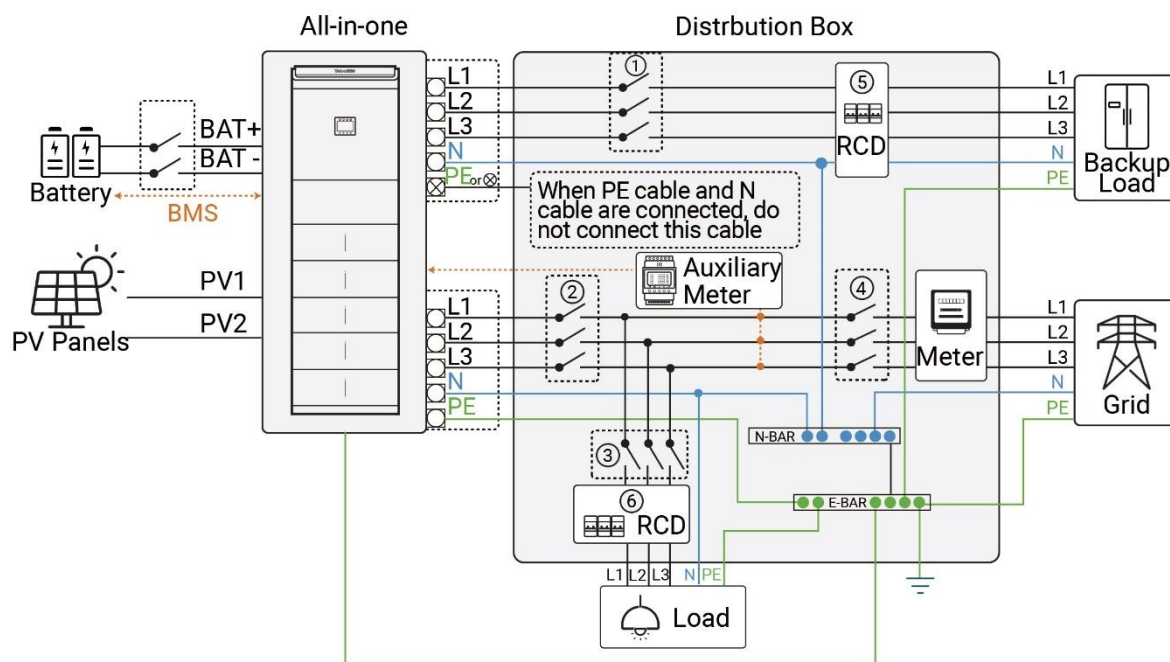
According to the regulations and requirements of different regions, the connection methods of the N and PE cables of the GRID and EPS ports of the inverter are different. The specific requirements of the local regulations shall prevail.

- 1) Connect the N and PE cables separately in the distribution box. This wiring method applies to countries other than Australia, New Zealand, and South Africa.



No.	①	②	③	④	⑤⑥
Recommended Specification	32A/400V AC Breaker	32A/400V AC Breaker	Depends on Loads	Main Breaker	30 mA RCD

- 2) Connect the N and PE cables together to the distribution box. This wiring method also applies to Australia, New Zealand, and South Africa.



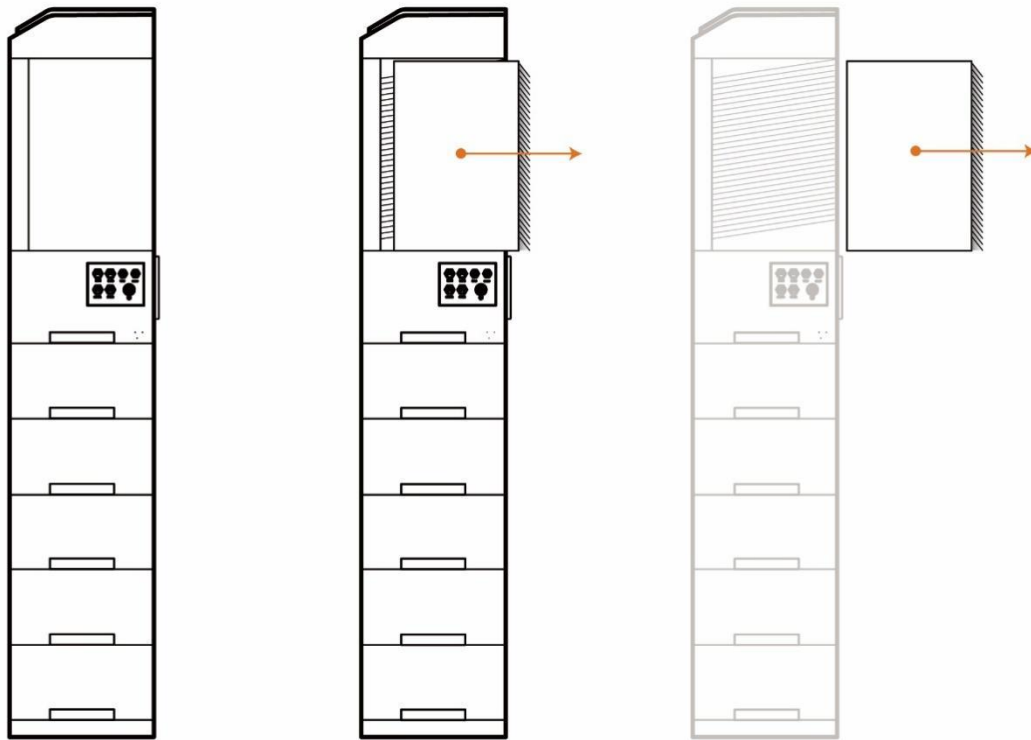
No.	①	②	③	④	⑤⑥
Recommended Specification	32A/400V AC Breaker	32A/400V AC Breaker	Depends on Loads	Main Breaker	30 mA RCD

5.2 Installation Precautions

- 1) Do not reversely connect the positive and negative cables, and ensure there is no short circuit with the external circuit.
- 2) Do not directly connect the battery pack to the AC power supply.
- 3) The embedded BMS in the battery pack is 96VDC. Connection in parallel is not allowed.
- 4) The product must be grounded and the resistance should be less than 0.1Ω.
- 5) Please ensure that the electrical specification of the product meets the requirement of the equipment which it works with.
- 6) Please add circuit breakers, fuses, leakage protectors and other devices during the electrical connection of the equipment.

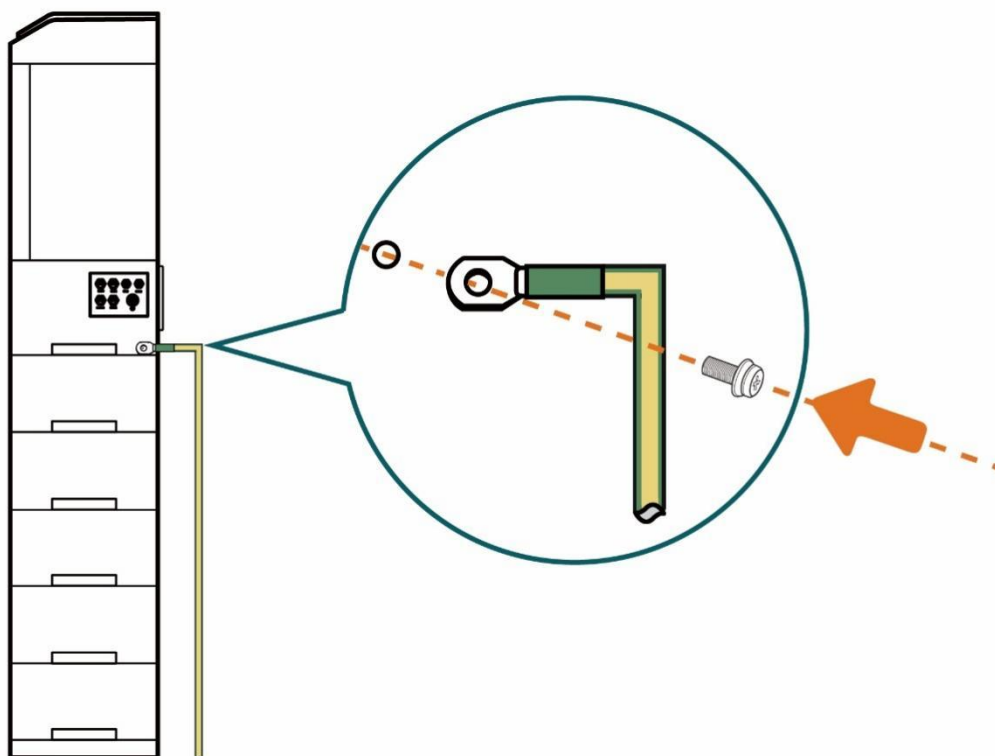
5.3 Preparation

- 1) Make sure the battery modules are turned off.
- 2) Remove the side panels of the inverter module.



5.4 Grounding

- 1) Fix the grounding wire to the grounding terminal on the inverter.
- 2) Recommended ground wire specification:
 - a) Material: copper wire for outdoor use
 - b) Conductor cross-sectional area: 6mm²
 - c) Color: yellow and green



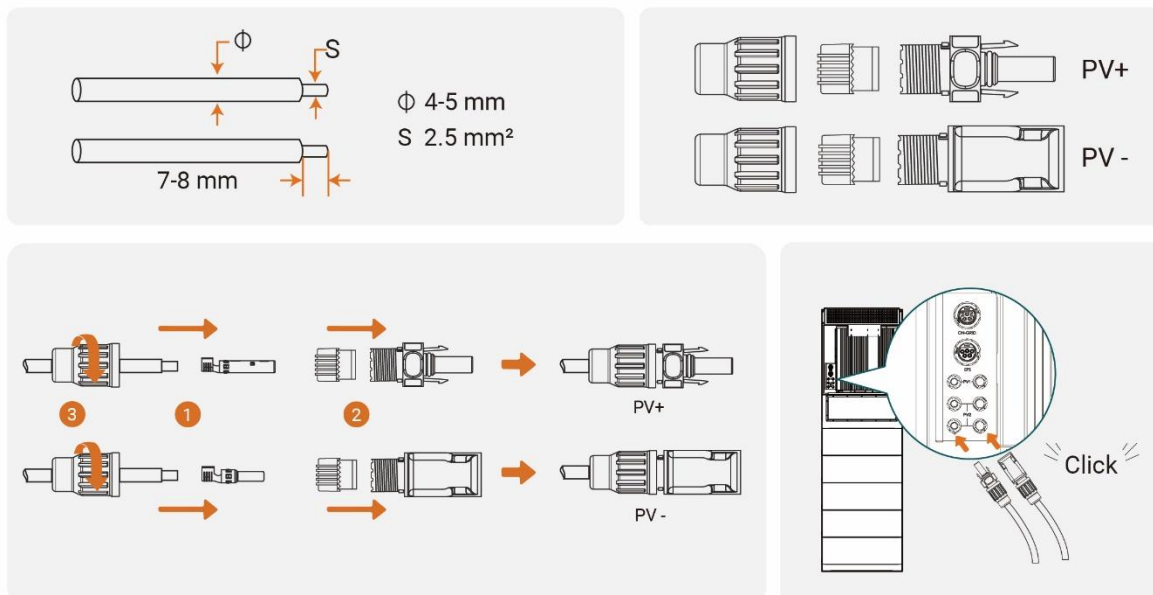


Please note:

- * The grounding wire on the inverter module casing cannot replace the grounding wire of the AC outlet.

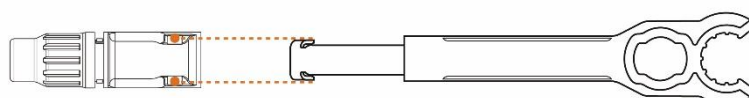
5.5 PV Connection

- 1) Please ensure the PV panels are insulated from the ground (at MΩ level).
- 2) Please ensure that the maximum short-circuit current and maximum input voltage of each MPPT are within the allowable range of this product.
- 3) Please connect the positive and negative connectors correctly to avoid a reverse connection. Connect the positive pole of the PV connector to the PV+ of the inverter and the negative to the PV-. Use a multimeter to measure the positive and negative poles of the DC cable and make sure the voltage is within the allowable range.
- 4) Make sure the DC cables are securely connected and not loose.
- 5) Please pay attention to the length of the cable to avoid pulling the cable.
- 6) Installation Steps:
 - a) Prepare PV cables according to the diagram.
 - b) Disassemble the PV connector into lock nuts and threaded joints (including sealing rings).
 - c) Insert the cable into the metal core and tighten it. Please note that the positive and negative metal cores are different.
 - d) Thread the PV cable through the lock nut.
 - e) Insert the metal core into the threaded joint until tightened.
 - f) Gently pull on the cable to check if it is firmly fastened.
 - g) Tighten the lock nut.
 - h) Connect to PV terminal.
- 7) Recommended ground wire specification:
 - a) Material: copper wire for outdoor use
 - b) Conductor cross-sectional area: 2.5mm²



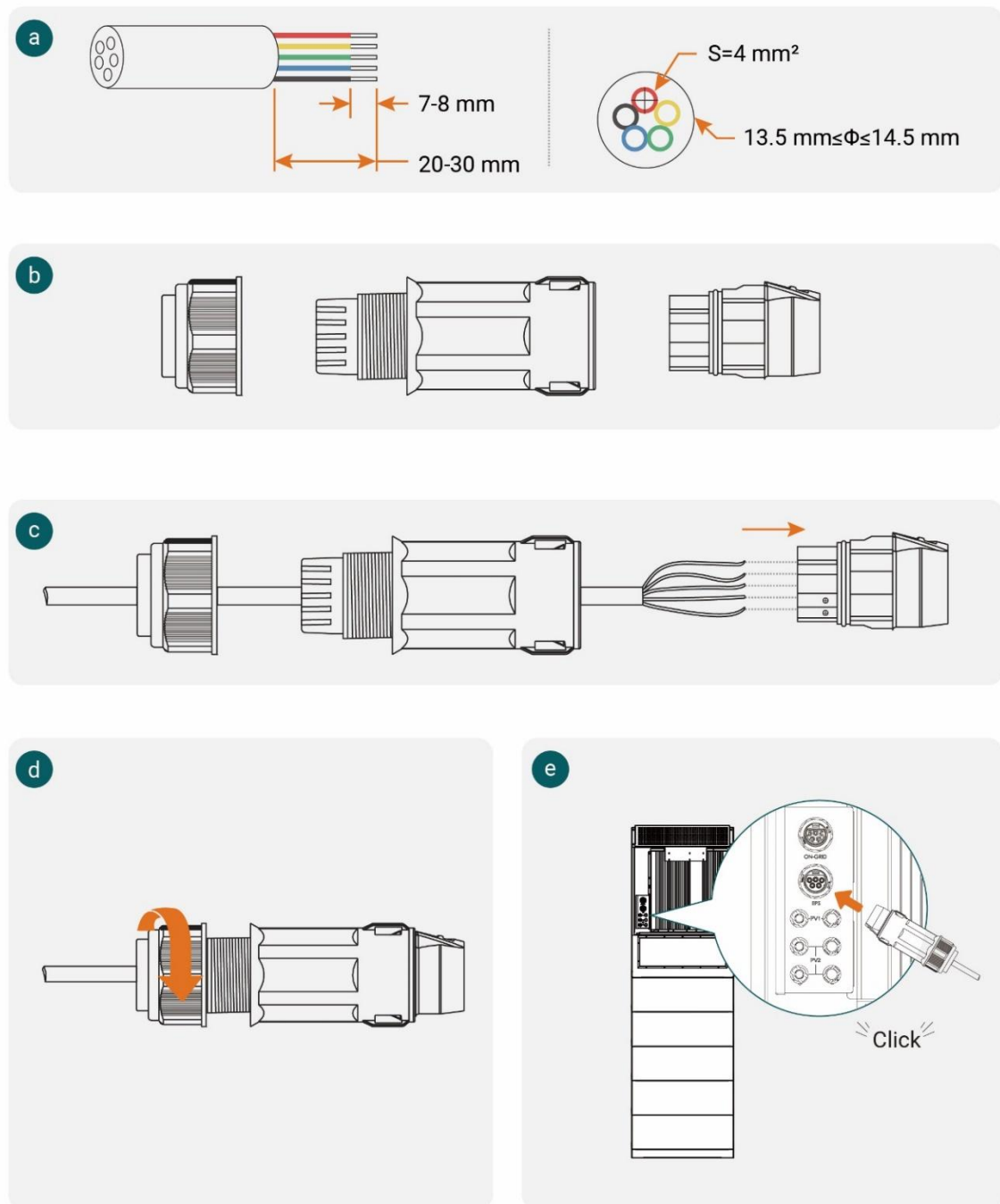
Please note:

- * To avoid the risk of electric shock, please install the PV connectors on the unoccupied PV2 terminals of the inverter module.
- * When disassembling the PV connector, please use the connector spanner.



5.6 EPS Connection

- 1) Please follow the diagram to install the EPS connector. Incorrect wiring will result in product damage.
- 2) When connecting the AC cables, connect the EPS cables before the GRID cables.
- 3) Please pay attention to the length of the cable to avoid pulling it.
- 4) Installation Steps:
 - a) Please follow the diagram to prepare the EPS cable.
 - b) Disassemble the EPS connector into three parts: lock nut, threaded sleeve (including sealing ring), and terminal block.
 - c) Thread the EPS cable through the lock nut and the threaded sleeve. Insert the live, neutral, and ground wires into the terminal block, and tighten the screw on the terminal block.
 - d) Rotate to tighten the lock nut.
 - e) Connect to the EPS terminal.
- 5) Recommended ground wire specification:
 - a) Material: copper wire for outdoor use
 - b) Conductor cross-sectional area: 4mm²
 - c) Outer diameter: 13.5~14.5mm



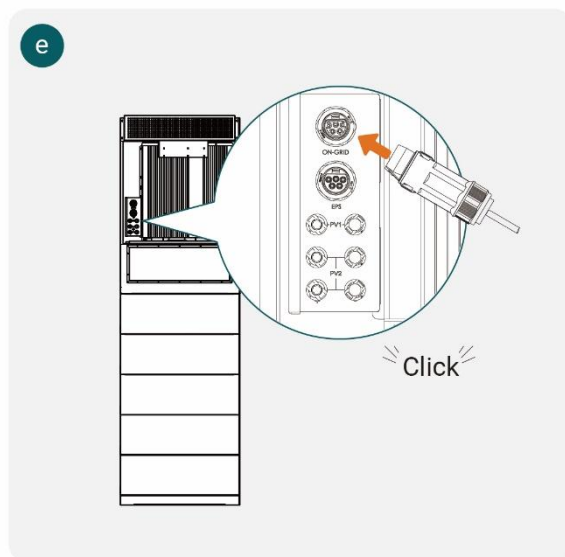
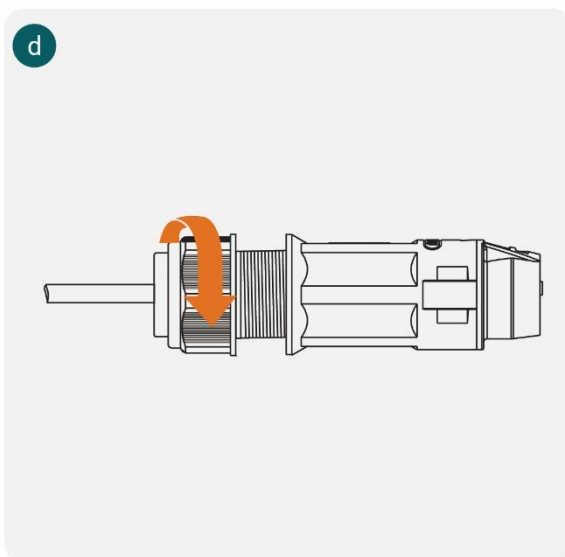
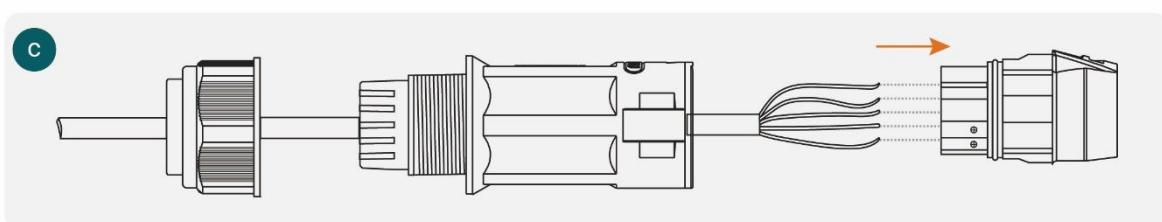
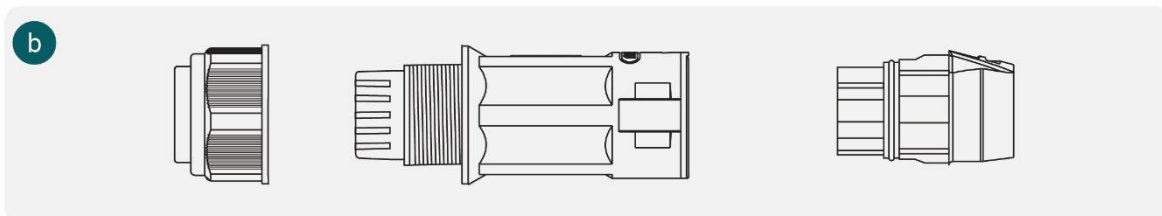
Please note:

- * When the device is on, the EPS AC port is live. Disconnect the EPS load circuit breaker or power off the device before doing maintaining for the EPS load. Otherwise, it may cause an electric shock.
- * When disassembling the EPS connector, please use the connector spanner.



5.7 GRID Connection

- 1) Please install an AC switch between this product and the power grid (select a suitable AC switch according to local regulations). Do not connect loads in series.
- 2) Please follow the diagram to connect the ON-GRID connector. Incorrect wiring will result in product damage.
- 3) Make sure that the cables are tightly connected. Otherwise, the terminals will be overheated and damaged while operation.
- 4) Please pay attention to the length of the cable to avoid pulling it.
- 5) Installation Steps:
 - a) Prepare GRID cables according to the diagram.
 - b) Disassemble the GRID connector into three parts: lock nut, threaded sleeve (including sealing ring), and terminal block.
 - c) Thread the GRID cable through the lock nut and the threaded sleeve. Insert the live, neutral, and ground wires into the terminal, and tighten the screw of the terminal block.
 - d) Rotate to tighten the lock nut.
 - e) Connect to ON-GRID interface.
- 6) Recommended ground wire specification:
 - a) Material: copper wire for outdoor use
 - b) Conductor cross-sectional area: 4mm²
 - c) Outer diameter: 13.5~14.5mm

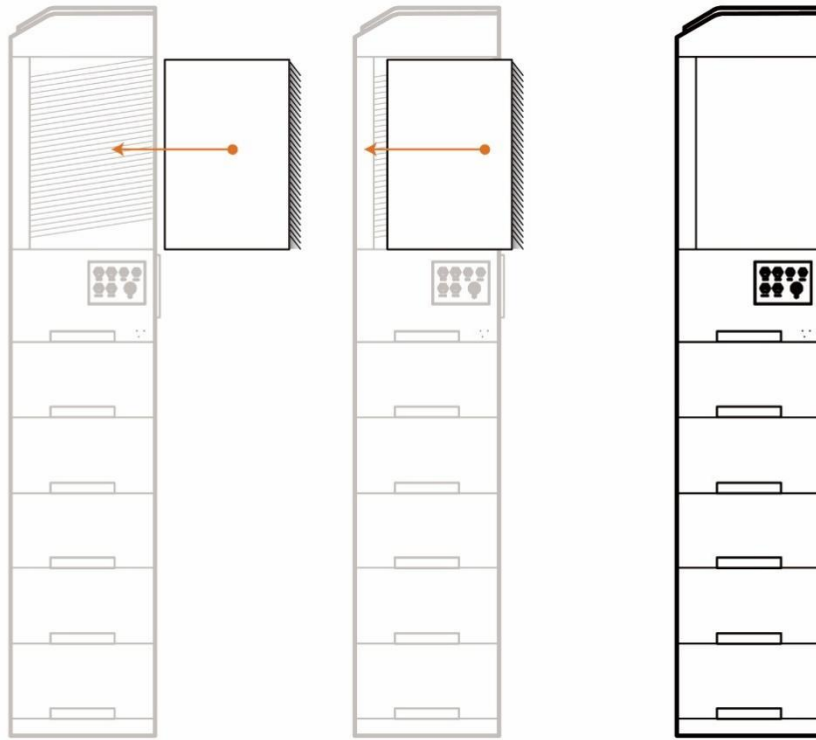


Please note:

- * When disassembling the EPS connector, please use the connector spanner.



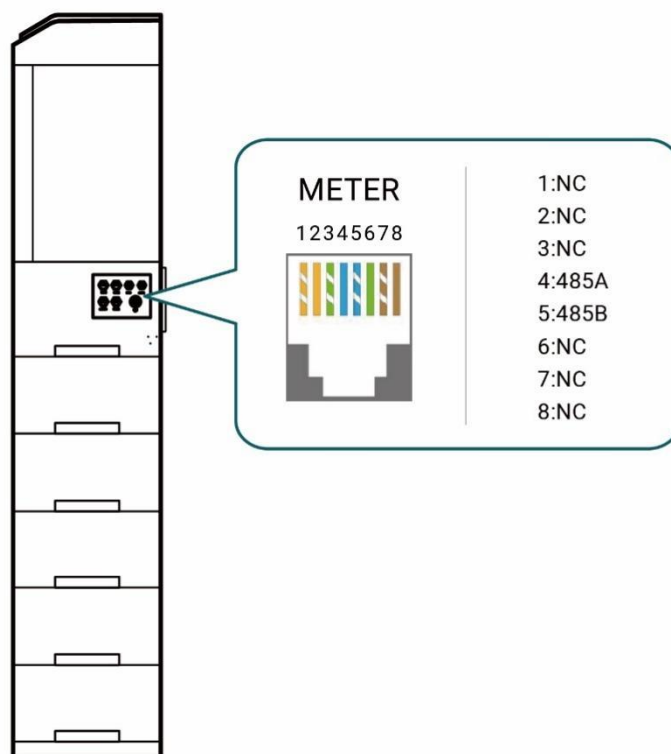
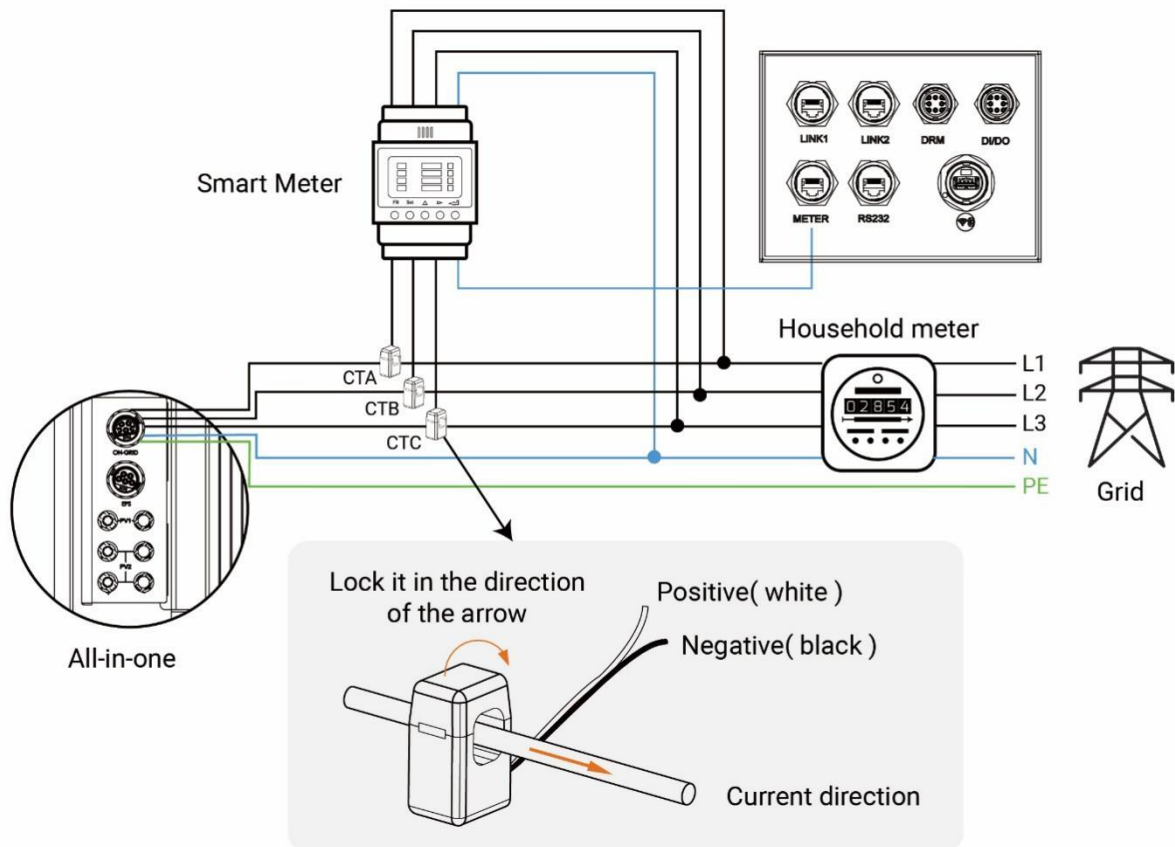
5.8 Side Panel Mounting



- 1) Install the side panels of the inverter module.
- 2) Please arrange the cables and wires to avoid being squeezing by the side panel. The connection between the connectors and terminals may be loose.

5.9 Auxiliary Meter Connection

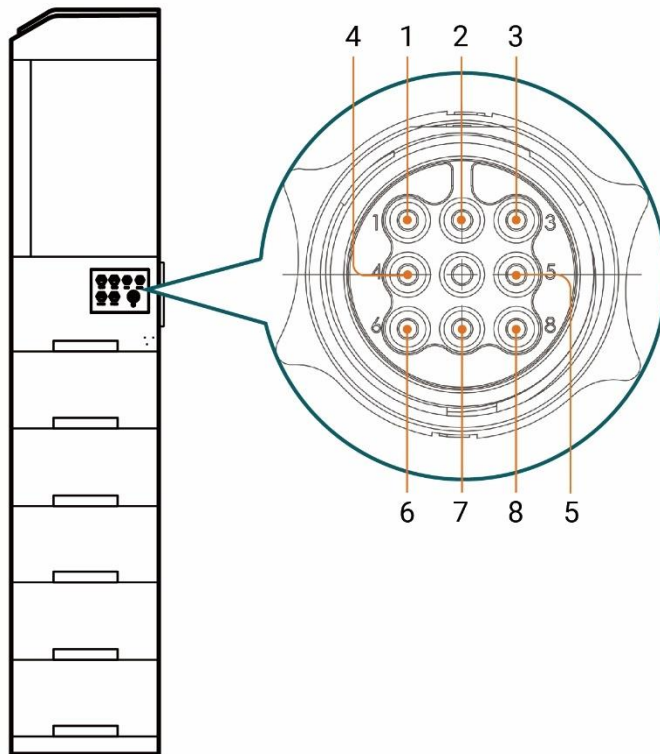
- 1) The auxiliary meter and CT with pre-set parameters are shipped together with the inverter. Please do not modify the parameters of the auxiliary meter and CT.
- 2) Connect one auxiliary meter to one inverter. Please do not connect it to multiple inverters.
- 3) Please connect the CT to the correct phase wire. Connect CTA to L1, CTB to L2, and CTC to L3.
- 4) The CT direction should be consistent with the current direction of the auxiliary meter. Reversed connection will trigger a CT reverse alarm.
- 5) Please install the auxiliary meter and CT according to the actual situation.
- 6) When arranging the installation location, please take into consideration that the communication cable of the auxiliary meter is 3m.
- 7) Auxiliary meter connection and the device interface definition are as follows.



5.10 DRM Connection

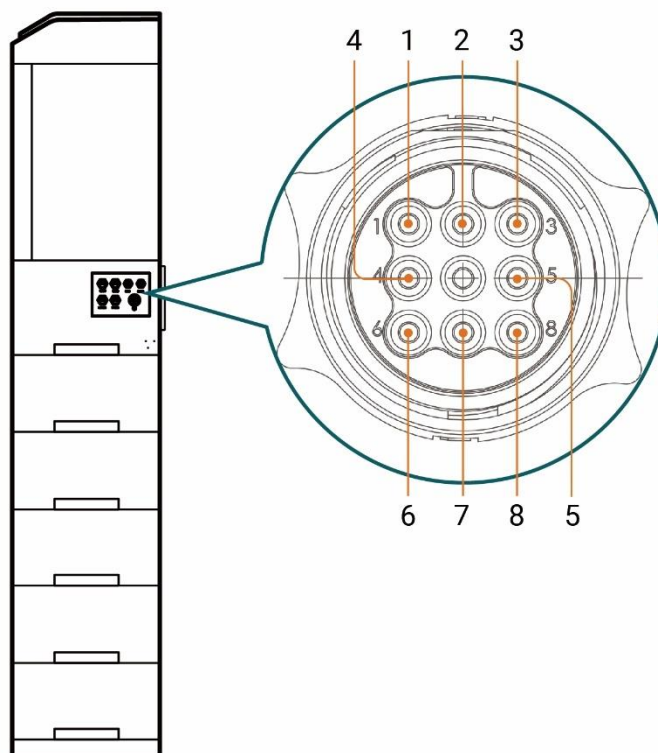
DRM is designed for the control signals in Australia and New Zealand, supporting several demand response modes.

Please contact YelonESS Technical Support for more information.



No.	Description
1	DRM1/5
2	DRM2/6
3	DRM3/7
4	DRM4/8
5	COM/DRM0
6	NC
7	NC
8	GND

5.11 DI/DO Connection



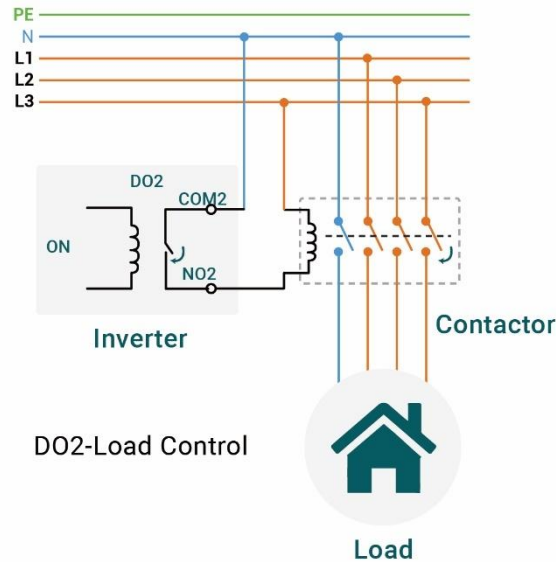
No.	Description
1	DI+
2	DI-
3	NC
4	NC
5	DO1+
6	DO1-
7	DO2+
8	DO2-

DI: The inverter bypass contactor integrates DI (IN+, IN-) as its dry contact input.

DO: The inverter reserves a dry contact control terminal to support the connection of additional contactors to control the load to turn on or off.

Load control method:

- 1) Time Control: Set the switch on and off time. The load will automatically turn on or off within the set period.
- 2) Switch control: Set to ON, the load will be on; set to OFF, the load will be off.



5.12 Wireless Kit Connection

Take off the protective cover of the Wireless kit and USB interface. Plug in the Wireless kit.

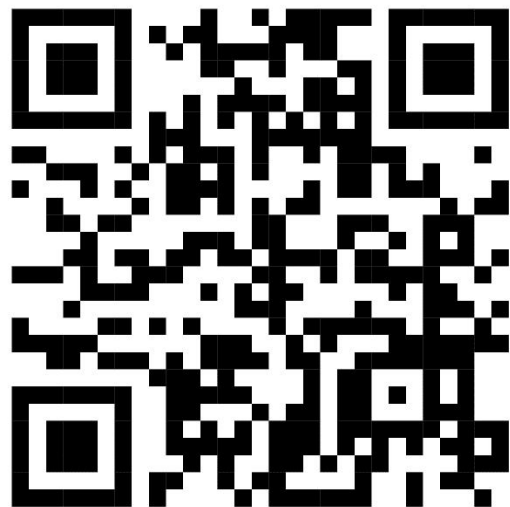
5.13 APP Connection

With YelonESS APP, you can view the data of the product. For specific operation, please visit the YelonESS official website(www.yeloness.com) for more info.

You can also scan code and download YelonESS APP.



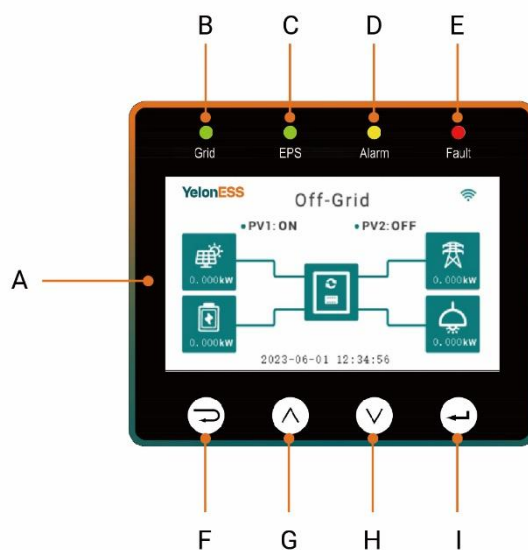
AppStore



Google Play

6. Operation Method

6.1 Inverter Module Control Panel Introduction



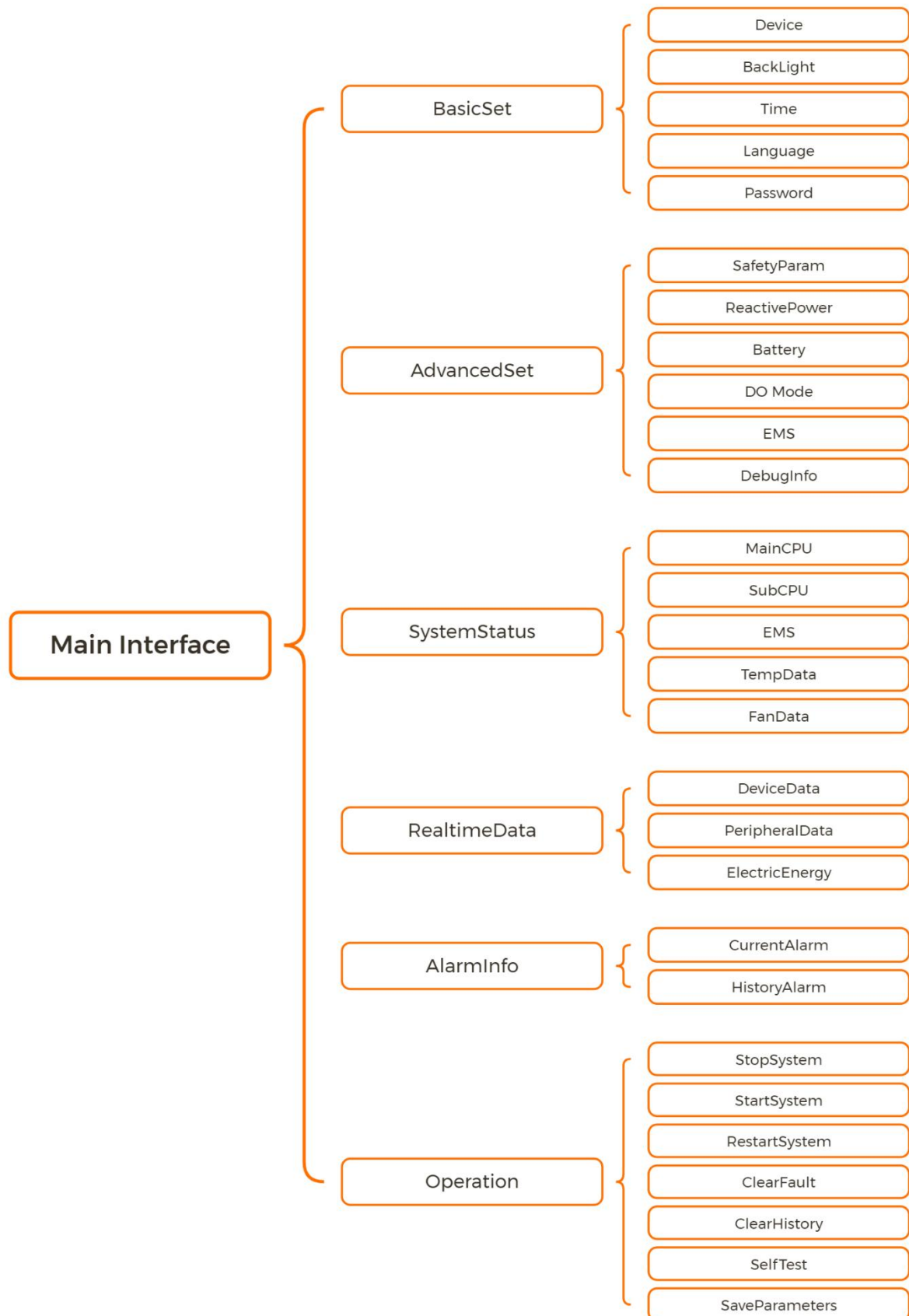
No.	Name	Description
A	Display Screen	Display the operating information
B	Grid Indicator	Display on-grid mode status
C	EPS Indicator	Display off-grid mode status
D	Alarm Indicator	Display warning status
E	Fault Indicator	Display failure status
F	Esc Button	Return from the current settings interface
G	Up Button	Press to scroll up or increase the setting value
H	Down Button	Press to scroll up or decrease the setting value
I	Enter	Confirm and save the current settings

6.2 Inverter Module Indicator

Status	Grid	EPS	Alarm	Fault
Initialization	OFF	OFF	OFF	OFF
Standby Mode	OFF	OFF	OFF	OFF
On-grid	ON	OFF	OFF	OFF
Off-grid	OFF	ON	OFF	OFF
Bypass	ON	ON	ON	OFF
Failure	OFF	OFF	OFF	ON
Alert	No Change	No Change	ON	OFF

6.3 Setup Guide

1) Functions



1) Battery Parameter Setting

- Select " AdvancedSet " from the main interface.
- Select "Battery".
- Set battery parameters.
- Save and exit.

- 3) Self-consumption Mode Setting
 - a) Select " AdvancedSet " from the main interface.
 - b) Select " EMS ".
 - c) Select " WorkingMode ".
 - d) Select " EMS_Mode ".
 - e) Select " SelfUse".
- f) Save and exit.
- 4) ECO Mode
 - a) Select " AdvancedSet " from the main interface.
 - b) Select " EMS ".
 - c) Select " WorkingMode ".
 - d) Select "EMS_Mode".
 - e) Select " Economical".
 - f) Save and exit.
 - g) Select " ECO Mode".
 - h) Set the switch on and off time.
- 5) Backup Mode
 - a) Select " AdvancedSet " from the main interface.
 - b) Select " EMS ".
 - c) Select " WorkingMode ".
 - d) Select " EMS_Mode ".
 - e) Select " BackUp".
 - f) Save and exit.

6.4 Battery Module Operation

- 1) Open the switch cover.
- 2) Turn on the switch. Long press the SW button until you hear a beep.
- 3) If the RUN indicator and the indicator on the side of the battery flash green together, indicating that the battery module is working properly.
- 4) Please boot up the inverter module before the battery module.

6.5 Battery Module Indicator

- 1) Battery level chart

Status	Charging				
	1	2	3	4	5
SOC Indicator					
SOC 0~20%	OFF	OFF	OFF	OFF	FLASH
SOC 20~40%	OFF	OFF	OFF	FLASH	ON
SOC 40~60%	OFF	OFF	FLASH	ON	ON
SOC 60~80%	OFF	FLASH	ON	ON	ON
SOC 80~100%	FLASH	ON	ON	ON	ON

SOC 100%	ON	ON	ON	ON	ON
----------	----	----	----	----	----

Status	Discharging				
SOC Indicator	1	2	3	4	5
SOC 0~20%	OFF	OFF	OFF	OFF	ON
SOC 20~40%	OFF	OFF	OFF	ON	ON
SOC 40~60%	OFF	OFF	ON	ON	ON
SOC 60~80%	OFF	ON	ON	ON	ON
SOC 80~100%	ON	ON	ON	ON	ON

2) Working Status Display

Operation Status	SOC Indicator 1~5	ALM	RUN
Normal Operation	Indicates battery level	OFF	FLASH
Protection Mode (such as communication failure)	Indicates battery level	ON	FLASH
Battery module communication error	FLASH	OFF	FLASH

Operation Status	SOC Indicator 1~5	ALM	RUN
Normal Operation	Indicates battery level	OFF	FLASH
Protection Mode (such as communication failure)	Indicates battery level	ON	FLASH
Battery module communication error	FLASH	OFF	FLASH

7. Test Run

7.1 Check Before Power On

- 1) Ensure the product is firmly installed, easy to operate and maintain, and has good ventilation and heat dissipation.
- 2) Ensure the PV, GRID, EPS, and protective ground wires are correctly and firmly connected.
- 3) Ensure the wire holes are sealed.
- 4) Ensure the inverter voltage and frequency of the grid-connected access point meet the requirements of local grid-connected regulations.

7.2 Power On

- 1) Turn on the AC breaker between the equipment and the grid.
- 2) Rotate the DC switch and set to "ON".
- 3) Power on the battery module.
- 4) Turn on the GRID load AC breaker.
- 5) Turn on the EPS load AC breaker.

7.3 Power Off

- 1) Turn off the inverter module through YelonESS APP.
- 2) Rotate the DC switch to "OFF".

- 3) Turn off the battery module.
- 4) Turn off the AC breaker between the product, GRID, and EPS.
- 5) If necessary, disconnect all power cables before removing the wireless kit and auxiliary meter.



Please note:

- * Maintenance and repair when the product is turned on is strictly prohibited. It may cause equipment damage or electric shock.
- * After the inverter module is powered off, please wait for the it to fully discharge according to the time requirement on the label before proceeding with further operations.

8. Wireless Kit Introduction

The wireless kit (YCOMM) conducts long-term and effective monitoring of the photovoltaic and energy system by collecting and recording the working status of this product. YCOMM can be connected to this product through the USB interface. It receives data from this product and sends it to the cloud platform. The cloud platform sends the processed data to the APP. The real-time status and historical data of the PV generation and energy are presented in graphical charts for easy reading. The APP will prompt info such as alarms, faults, and firmware upgrade reminders, and users can monitor or upgrade on the APP.



Please note:

To fix firmware bugs and eliminate potential risks, YelonESS will provide a remote upgrade service to improve product performance. YelonESS strongly recommends that users connect YelonESS products to the Smart Energy Management System (YCloud+) to upgrade the system remotely or through a third-party platform authorized by YelonESS. YelonESS will not be responsible for the resulting bugs, risks, or related adverse consequences if the user does not connect or access YCloud+ and thus disabling YelonESS to perform remote system upgrades.

9. Troubleshooting and Maintenance

9.1 Alarm List

1) Inverter Module Alarm

Failure	Cause	Solutions
Grid Overvoltage Protection	The grid voltage is higher than the rated range.	Generally, after the power grid is restored, the inverter will be connected to the grid again. If alerts occur frequently: 1) Check the inverter grid parameters. 2) Ensure the grid voltage in your area is stable and within the normal range. 3) Check whether the cross-sectional area of the AC cable meets the requirements.
Grid Undervoltage	The grid voltage is lower than	Generally, after the power grid is restored,

Protection	the rated range.	the inverter will be connected to the grid again. If alerts occur frequently: 1) Check the inverter grid parameters. 2) Ensure the grid voltage in your area is stable and within the normal range. 3) Check whether the AC cable is firmly connected.
Grid Over-frequency Protection	The actual frequency of the power grid is higher than the rated range.	Generally, after the power grid is restored, the inverter will be connected to the grid again. If alerts occur frequently: 1) Check the inverter grid parameters. 2) Ensure the grid voltage in your area is stable and within the normal range.
Grid Underfrequency Protection	The actual frequency of the power grid is lower than the rated range.	
Off Grid	The inverter detects no grid connection.	Generally, after the power grid is restored, the inverter will be connected to the grid again. If alerts occur frequently: 1) Check the grid supply stability. 2) Check whether the AC cable is firmly connected. 3) Check whether the AC cable is correctly connected. 4) Check if the AC breaker is OFF.
Residual Current Failure	The residual leakage current is too high.	1) The alarm may cause by high ambient humidity. After it returns to the operating range, connect the inverter to the grid again. 2) If the humidity is in the normal range, check the connection of the AC and DC cables.
PV Reverse Connection	The inverter detects that the PV panels are reverse-connected.	If the PV panels are reverse-connected, adjust after cut off the DC power switch.
PV Undervoltage	PV voltage is lower than the rated range	1) Check the DC cable connection. 2) Check whether the PV panels are covered. If so, remove the covering, and ensure the panels are clean. 3) Check the status of the PV panels.
PV Overvoltage	PV voltage is higher than the rated range	Check the specifications and quantities of PV panels.
Over Temperature	The temperature inside the inverter is higher than the rated range.	1) Try to decrease surrounding temperature. 2) Make sure the installation complies with the instruction on user manual.
Low Insulation Resistance	The ground insulation resistance of the PV panels is too low.	Use a multimeter to determine if the resistance between the earth and the inverter frame is close to zero. If not, please ensure that the connection is good.
Arc Fault	The inverter has detected an arc fault.	Disconnect the DC switch. Check whether the DC cable is damaged or the terminals are loose or in poor contact.
EPS Overload	The EPS load power is higher than the rated range.	Reduce the power of the EPS load or the number of EPS loads.
Auxiliary Meter Reverse Connection	Inverter detects auxiliary meter or CT	Check installation requirements in this user manual and install the auxiliary

	reverse-connected.	meter according to the actual situation.
Auxiliary Meter Communication Failure	The inverter detects auxiliary meter communication failure.	1) Check the connection between the auxiliary meter communication cable and terminals. 2) Reconnect the auxiliary meter and the communication cable.
Battery Voltage Failure	The battery voltage is higher than the rated range.	Check whether the battery input voltage is within the rated range.
BMS Communication Failure	The inverter detects a BMS communication failure.	1) Check BMS communication cable connection. 2) Reconnect the BMS communication cable.
BMS Battery Failure	The inverter detects a BMS battery failure.	1) Check the installation between battery modules. 2) Reboot the battery.
Relay Failure	The inverter detects a relay self-test failure.	Reboot the inverter.



Please note:

- * If the alarm still exists after troubleshooting, contact YelonESS or authorized partners.
- 2) Battery Module Functional Problem
 - a) Check whether the battery can be turned on or not.
 - b) If battery is turned on, check whether the ALM light is off, flashing or on.
 - c) If the ALM light is off, check the battery charge and discharge function.

9.2 Battery Module FAQ

- 1) Issue: Battery fails to boot up; SOC indicators are off or flashing.

Cause of Issue: Capacity is too low or over-discharged.

Solution: Use a charger or inverter to provide 105-108V voltage. If the battery boots up successfully, keep charging the battery and use monitor tools to check the battery log.

If the battery terminal voltage is less than 85Vdc, slow charge it with less than 0.05C to avoid affecting SOH.

If the battery terminal voltage is larger than 85Vdc, charge with less than 0.5C. If the battery fails to boot up, turn it off to repair it.

- 2) Issue: The battery boots up successfully. The ALM indicator is on, and the battery cannot discharge. If the ALM (alarm) indicator is on, please check the following:

- a) Temperature: The battery cannot work when the temperature is above 55 °C or under -20 °C.

Solution: Move the battery to the environment between -20 °C and 55 °C.

- b) Current: The current exceeds 50A will trigger battery self-protection.

Solution: Check whether the current is over 50A. If so, change the settings on power supply side.

- c) High Voltage: The charging voltage exceeds 109.5V will trigger battery self-protection.

Solution: Check whether voltage is over 109.5V. If so, change the settings on power supply side and discharge the module.

- d) Low Voltage: The battery discharges to less than 78V, and self-protection will be triggered.

Solution: Charge the battery until the ALM indicator is off.

3) Issue: Unable to charge or discharge. The ALM indicator is on.

Cause of Issue: Unable to charge or discharge under permanent protection.

Solution: Switch off the modules and contact YelonESS authorized local dealer.

4) Issue: Buzzer is ringing and all indicators are flashing. High voltage protection is triggered.

Cause of Issue: Cell voltage is higher than 3.65V or module voltage is higher than 109.5V.

Solution:

Set the communication between the battery and the inverter properly to ensure a safe operation.

Check the setting of the inverter. The charging voltage is 105-108V Vdc.

Check the communication between the battery and the inverter.

In this scenario, the BMS is still functional and not damaged. Turn the module OFF and let the battery voltage drop down naturally. Wait for at least 15 minutes, then re-boot the module. If the alarm is off, the module can work normally.

5) Issue: Buzzer is ringing and ALM indicator is solid red.

Cause of Issue: Cables are reversely connected.

Solution:

Power off all the batteries and inverters.

Turn on the breaker.

Check the cable connection and disconnect all power cables.

Check whether the power port is damaged.

Try to boot up the single battery module without connecting to other batteries.

If no alarm is triggered this time, the previous alarm is triggered by cable reverse connection. To radically solve the problem, switch off the modules and contact YelonESS authorized local dealer.

6) Issue: Communication fails

Cause of Issue: The communication connector is broken or loose, or the communication between inverter and battery is incorrectly set.

Solution:

Turn off all battery and inverter power. Turn off the circuit breaker. After checking the cable connections, disconnect all power cables. Check if the power connector is damaged. Check the settings of the inverter or charger. Check communication between inverter and battery system. Try powering on a single battery with no cables attached. If the buzzer is still ringing, please turn off the module and contact your local dealer.

7) Issue: SOC indicator keeps flashing

Cause of Issue: Communication problem between batteries.

Solution: Check whether the status indicators of the batteries are breathing normally. Check whether the batteries are stacked and installed securely. After confirming that the installation is complete, if the status indicators, SOC lights still show abnormal status, please turn off the battery and contact the local dealer.

8) Issue: After the switch is turned on, the battery module turns on directly.

Cause of Issue: BMS failure

Solution: Switch off the module and contact YelonESS authorized local dealer.

9.3 Maintenance Precautions

1) Servicing of batteries should be performed or supervised by personnel knowledgeable about

batteries and the required precautions.

- 2) Always disconnect power and ensure the battery is turned off when performing any movement or maintenance.
- 3) After the device is powered off, please wait for at least 10 minutes to fully discharge before performing maintenance.
- 4) Do not open or damage batteries or inverter module. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- 5) When replacing batteries, replace with the same type and number of batteries or battery packs.
- 6) Do not dispose of batteries in a fire. The batteries may explode.
- 7) If the battery pack is wet or submerged in water, do not access it, and then contact YelonESS or an authorized dealer for technical support. Cut off all power switch on inverter side.
- 8) Faulty batteries are dangerous and must be handled with the utmost care. They are not allowed to be used and may pose a danger to people or property. If the battery seems to be faulty, contact YelonESS or an authorized dealer.
- 9) A battery can present a risk of electrical shock and high short-circuit current. The following precautions should be observed when working on batteries:
 - a) Remove watches, rings, or other metal objects.
 - b) Use tools with insulated handles.
 - c) Wear rubber gloves and boots.
 - d) Do not lay tools or metal parts on top of batteries.
 - e) Disconnect charging source prior to connecting or disconnecting battery terminals.
 - f) Determine if battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electrical shock. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance (applicable to equipment and remote battery supplies not having a grounded supply circuit).

9.4 Recycle and Disposal

If the inverter module no longer works and need to be scrapped, please dispose of them according to the electrical waste disposal requirements of the country/region regulations. It is forbidden to treat the equipment as domestic waste.

If the batteries (normal or damaged) need to be disposed of or need to be recycled, they should be disposed of in accordance with local recycling regulations and use the best available technology to achieve the corresponding recycling efficiency.



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