

INSTRUCTION MANUAL

3.6KW SINGLE PHASE HYBRID INVERTER



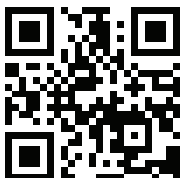
MODEL	VT-6607136
SKU	11955

10 YEAR
WARRANTY*

IP65
RATING

INTRODUCTION

Thank you for selecting and buying V-TAC product. V-TAC will serve you the best. Please read these instructions carefully before starting the installation and keep this manual handy for future reference. If you have any other query, please contact our dealer or local vendor from whom you have purchased the product. They are trained and ready to serve you at the best. The warranty is valid for 10 years from the date of purchase. The warranty does not apply to damage caused by incorrect installation or abnormal wear and tear. The company gives no warranty against damage to any surface due to incorrect removal and installation of the product. This product is warranted for manufacturing defects only.



MULTI-LANGUAGE MANUAL QR CODE

Please scan the QR code to access the manual in multiple languages.

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1.About This Manual

WARNING

1. Please make sure to turn off the power before starting the installation.
2. Installation must be performed by a qualified electrician.



2.Safety & Symbols

2.1 Safety Precautions

1. All work on the inverter must be carried out by qualified electricians.
2. The device may only be operated with PV panels.
3. The PV panels and inverter must be connected to the ground.
4. Do not touch the inverter cover until 5 minutes after disconnecting both DC and AC power supply.
5. Do not touch the inverter enclosure when operating, keep away from materials that may be affected by high temperatures.
6. Please ensure that the used device and any relevant accessories are disposed of in accordance with applicable regulations.
7. VTAC inverters should be placed upwards and handled with care in delivery. Pay attention to waterproof. Do not expose the inverter directly to water, rain, snow or spray.
8. Alternative uses, modifications to the inverter not recommended. The warranty can become void if the inverter was tampered with or if the installation is not in accordance with the relevant installation instructions.

2.2 EXPLANATION OF SYMBOL

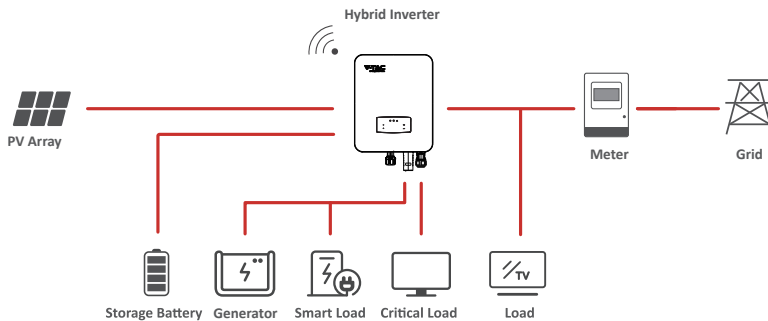
VTAC inverter strictly comply with relevant safety standards. Please read and follow all the instructions and cautions during installation, operation and maintenance.

SYMBOL	EXPLANATION
	Danger of electric shock The inverter contains fatal DC and AC power. All work on the inverter must be carried out by qualified personnel only.
	Beware of hot surface The inverter's housing may reach uncomfortably hot 60°C (140°F) under high power operation. Do not touch the inverter enclosure when operation.
	Residual power discharge Do not open the inverter cover until 5 minutes after disconnection both DC and AC power supply.
	Important notes Read all instructions carefully. Failure to follow these instructions, warnings and precautions may lead to device malfunction or damage.
	Do not dispose of this device with the normal domestic waste.
	Without transformer This inverter does not use transformer for the isolation function.
	Refer to manual before service.
	CE mark The inverter complies with the requirements of the applicable CE guidelines.

3. Introduction

3.1 Basic Instruction

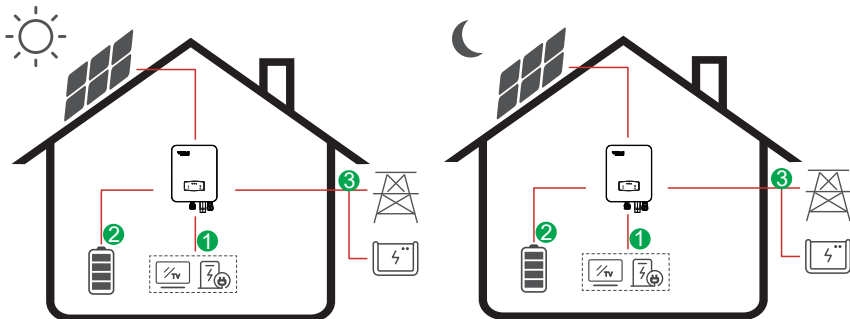
The VTAC hybrid inverters are designed to increase energy independence for homeowners. Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from the public grid and optimize self-consumption.



3.2 Operation Modes

3.2.1 SelfUse

The SelfUse mode is for the regions with low feed-in tariff and high electricity prices. The energy produced by the PV system is used to optimize self-consumption needs. The excess energy is used to recharge the batteries, any remaining excess is then exported to the grid.



Energy flow:

PV → Load → Battery → Grid

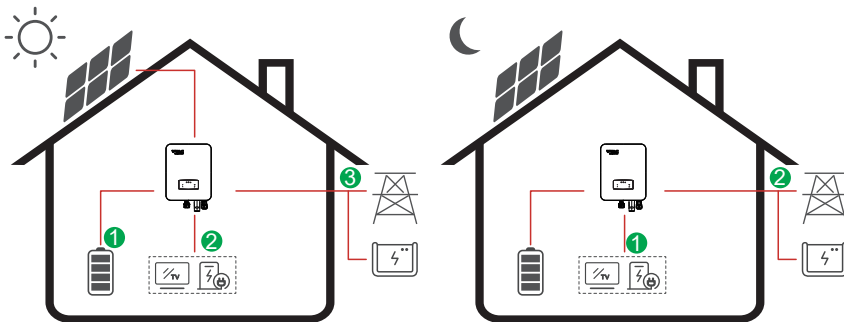
 **Note:** Advance Setting

When select 0 W under P_Feed menu, the inverter will export zero energy to the grid.

When select xx W under P_Feed menu, the inverter will export customized energy to the grid.

3.2.2 ChgFst

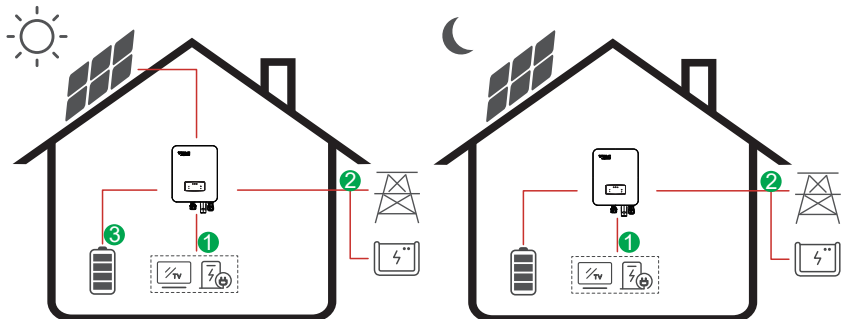
When the grid fails, the system will automatically switch to ChgFst mode. The back-up loads can be supplied by both PV and battery energy.



Energy flow: PV → Battery → Load → Grid

3.2.3 SellFst

The SellFst mode is suitable for the regions with high feed-in tariff.

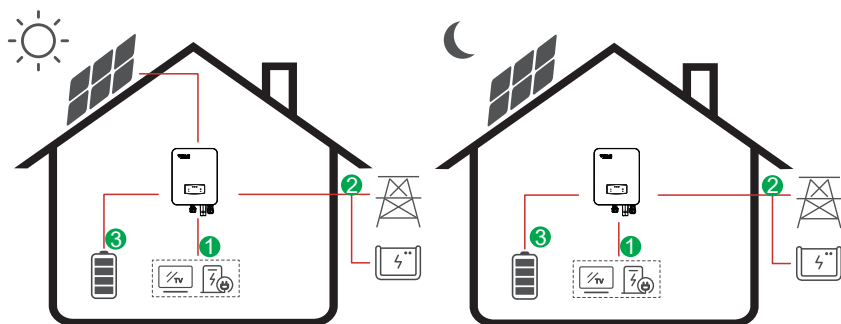


Energy flow:

PV → Load → Grid → Battery

3.2.4 Maintain

The Maintain mode is suitable for situations where the battery capacity is small, and the battery is charged and discharged at the specified power.



Energy flow:

PV → Load → Grid → Battery

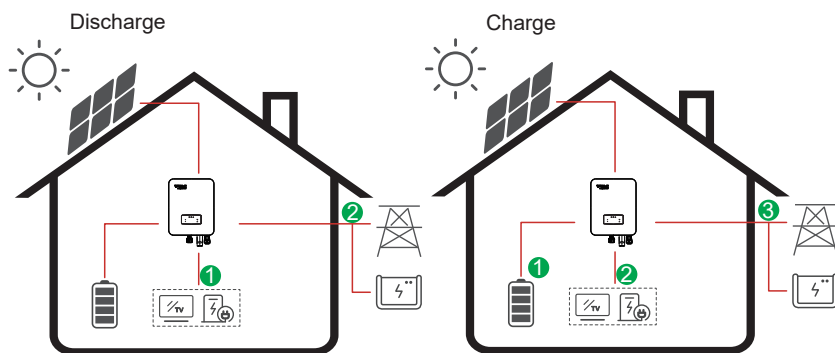


Warning:

The Maintain mode is only available for some inverter.

3.2.5 cmdChg

In cmdChg mode, within the battery power range, the battery is charged and discharged at the specified power.



Energy flow:

Discharge: Battery and PV → Load → Grid

Charge: $P_{PV} > P_{Charge\ Set}$: PV → Battery → Load → Grid

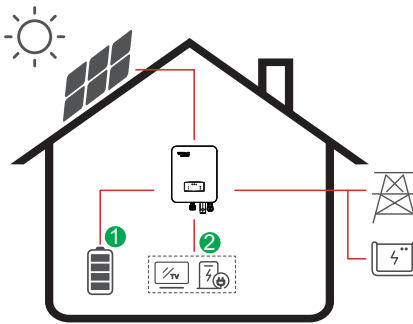
$P_{PV} < P_{Charge\ Set}$: PV+Grid → Battery → Load

3.2.6 ExtEms

ExtEms mode requires customized external control accessories that can remotely control the operation of the inverter. It is not recommended to use it without professional personnel.

3.2.7 PeakShave

In PeakShave mode, the charging and discharging of the battery are controlled by setting the AC power to reduce the peak load of the power grid.



Energy flow: Grid power > P_Back : Battery and PV → Load
 Grid power < P_Back: Grid and PV → Battery



Note:

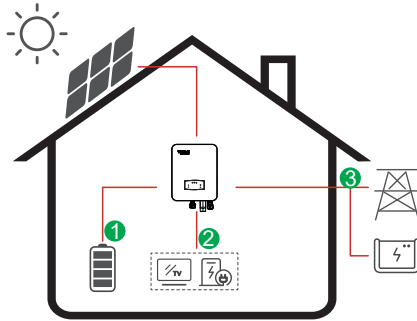
P_Back is set to Grid Ctr1 in the Run Param directory of the menu.

3.2.8 Time of Use

The Time of Use mode is designed to reward customers who do their part to reduce demand on the electric grid, particularly during peak usage periods. Use most of your electricity from PV energy and during off-peak time periods, and you could significantly lower your monthly bill.

A. Charge Setting

PV Charge Mode

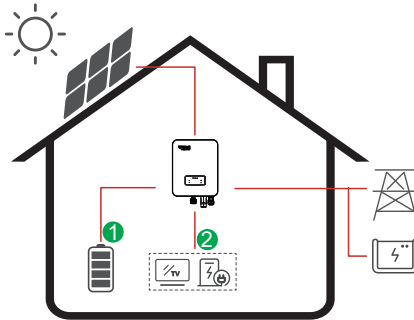


4 periods of time charge setting.

Energy flow:

PV → Battery → Load → Grid

AC Charging



4 periods of time charge setting.

Energy flow:

PV and Grid → Battery → Load

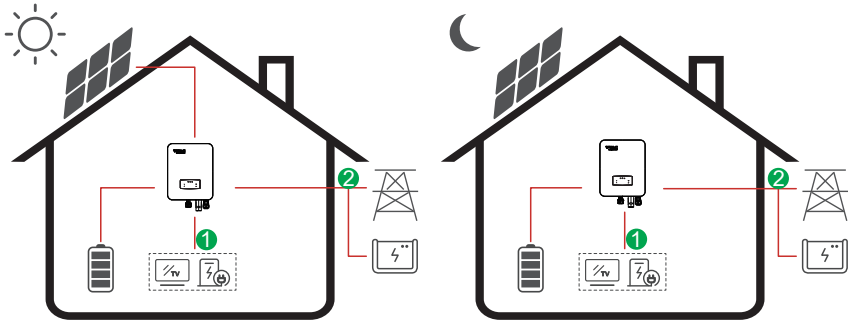


Note:

After select AC charge, the AC will also charge the battery when the PV is low or no PV.

B. Forced Discharging

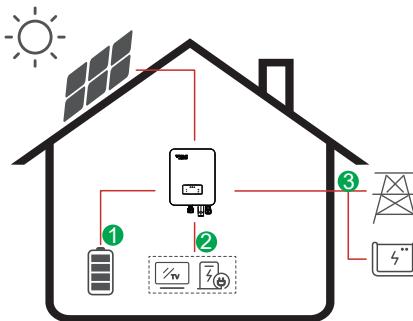
4 periods of time discharge setting



Energy flow: Battery and PV → Load → Grid

C. Forbidden Discharge

4 periods of time discharge setting, the battery will be charged firstly.



Energy flow:

PV → Battery → Load → Grid

4. Installation

4.1 Pre-installation

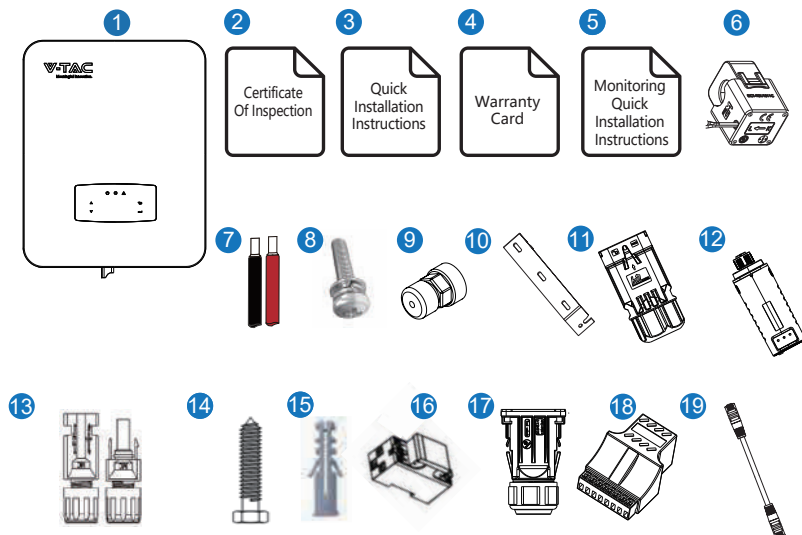
4.1.1 Unpacking & Package List

Unpacking

On receiving the inverter, please check to make sure the packing and all components are not missing or damaged. Please contact your dealer directly for supports if there is any damage or missing components.

Package List

Open the package, please check the packing list shown as below.

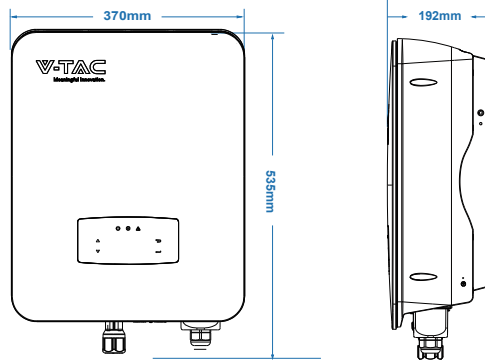


No.	Qty	Items	No.	Qty	Items
1	1	Hybrid Inverter	11	1	Battery Connector
2	1	Certificate Of Inspection	12	1	Monitor Module
3	1	Quick Installation Instructions	13	2	DC Connector
4	1	Warranty Card	14	3	Mounting Bracket Screw
5	1	Monitoring Quick Installation Instructions	15	3	Plastic Expansion Tube
6	1	CT	16	1	Smart Meter (Optional)
7	1	Battery wire	17	1	AC Waterproof Cover
8	1	Security Screw	18	1	Communication Adapter
9	3	Communication Connectors	19	2	Communication T568B
10	1	Wall Mounting Bracket			

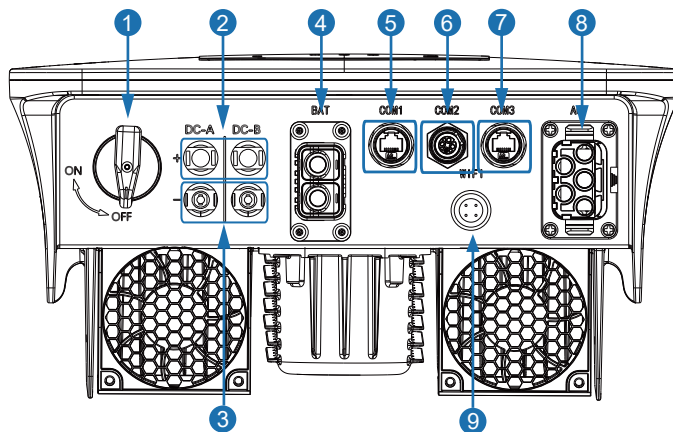
**Note:**

Using the Communication Adapter when Multi Inverter Parallel.

4.1.2 Product Overview



Inverter Terminals

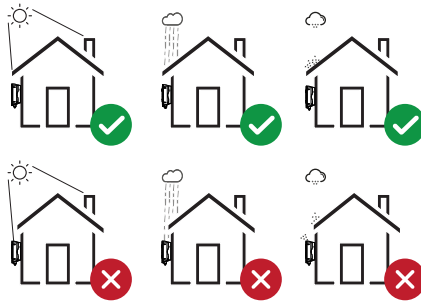


No.	Items	No.	Items
1	DC Switch	6	CT/Meter Communication Port
2	DC Connectors (+) For PV Strings	7	BAT Communication Port
3	DC Connectors (-) For PV Strings	8	AC Port & EPS Port
4	Battery Port	9	Monitor Module Port
5	Generator Communication Port		

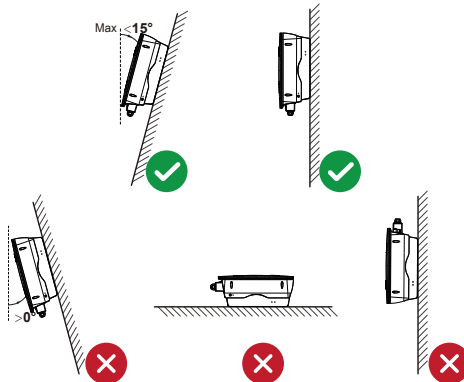
4.1.3 Mounting Location

The inverters are designed for indoor and outdoor installation (IP65), to increase the safety, performance and lifespan of the inverter, please select the mounting location carefully based on the following rules:

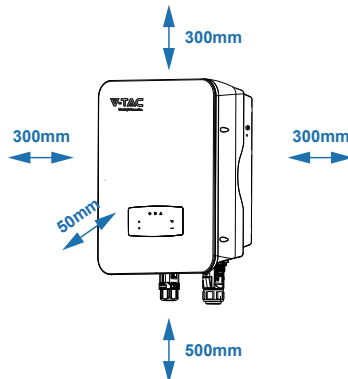
- The inverter should be installed on a solid surface, far from flammable or corrosion materials, where is suitable for inverter's weight and dimensions.
- The ambient temperature should be within $-25^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (between -13°F and 140°F).
- The installation of inverter should be protected under shelter. Do not expose the inverter to direct sunlight, water, rain, snow, spray lightning, etc.



- The inverter should be installed vertically on the wall, or lean back on plane with a limited tilted angle.

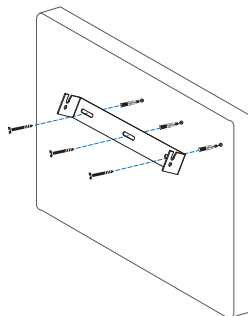
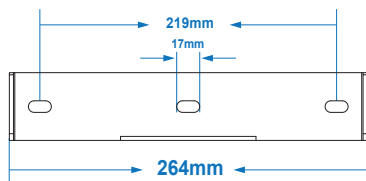


- Leave the enough space around inverter, easy for accessing to the inverter, connection points and maintenance.

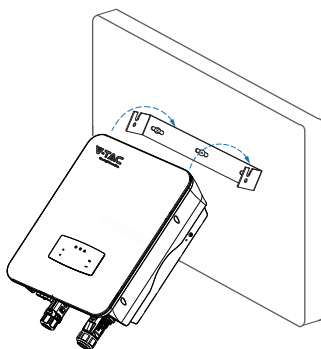


4.2 Mounting

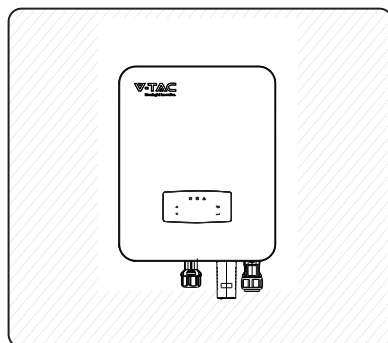
Step 1



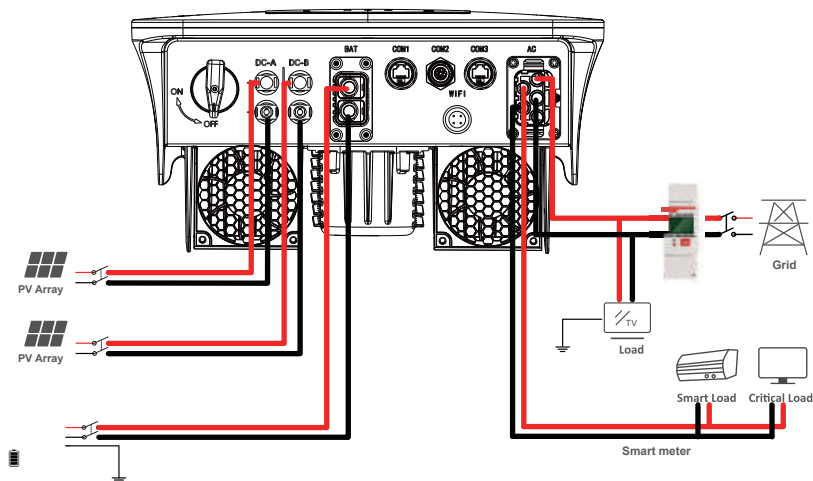
Step 2



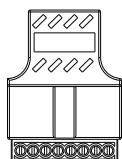
Step 3



4.3 Electrical Connection



Communication Adapter pin assignment



12345678

No.	COM1	COM2	COM3
1	+3_3V	CT-U	SGND
2	DRM1/5	RS485-A	TEP
3	DRM2/6	CT-N	485-A2
4	DRM3/7	RS485-B	CANH_BAT1
5	DRM4/8		CANL_BAT1
6	DRM0		485-B2
7	SELV12		BAT-485-A
8	RPSD		BAT-485-B



Note:

For diesel generators or multi-machine parallel use, please contact the manufacturer, and provide installation and operation instructions separately.

4.3.1 PV Connection

The hybrid inverter has one/two MPPT channels, can be connected with one/two strings of PV panels. Please make sure below requirements are followed before connecting PV panels and strings to the inverter:

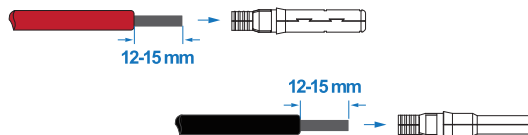
- The open-circuit voltage and short-circuit current of PV string should not exceed the reasonable range of the inverters.
- The isolation resistance between PV string and ground should exceed 300 k Ω .
- The polarity of PV strings are correct.
- Use the DC plugs in the accessory.
- The lightning protector should be equipped between PV string and inverter.
- Disconnect all of the PV (DC) switch during wiring.



Warning:

The fatal high voltage may on the DC side, please comply with electric safety when connecting. Please make sure the correct polarity of the cable connected with inverter, otherwise inverter could be damaged.

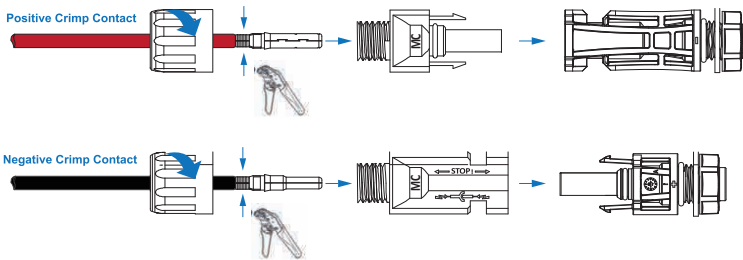
Step 1



Note:

PV cable suggestion
Cross-section
4mm²

Step 2



Note:

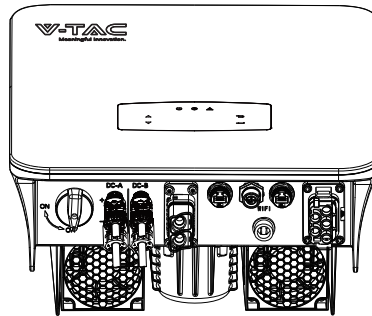
Please use PV connector crimper to pinch the point of the arrow.



Note:

You'll hear click sound when the connector assembly is correct.

Step 3



4.3.2 Battery Connection

Hybrid inverters are compatible with lithium battery. For lead acid battery or batteries with other brands, please confirm with local distributor or VTAC for technical support.



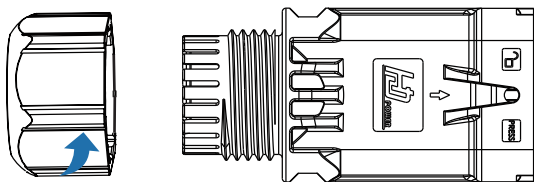
Note:

Set battery type and manufacturer, please refer to Chapter 5.3. BMS(Battery Management System)communication is needed between inverter and battery.

15 Installation

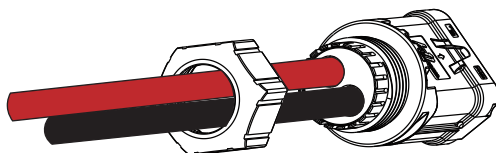
Step 1

Rotate counterclockwise and remove mounting bracket screw nut.



Step 2

Pass the battery wire with the correct polarity through the nut and installation bracket.

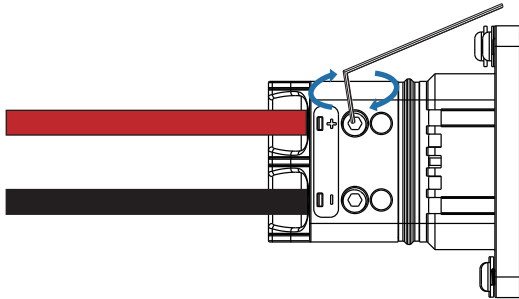


Note:

Battery cable suggestion Cross - section 4 AWG
Please make sure the battery polarities are correct.

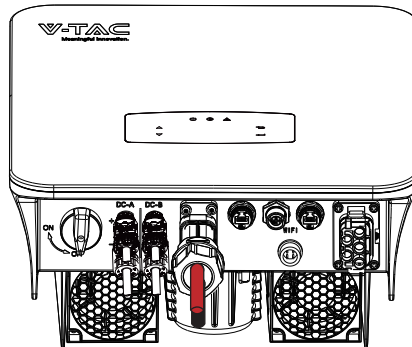
Step 3

Insert the battery wire into the corresponding terminal and lock it with a hexagon wrench.

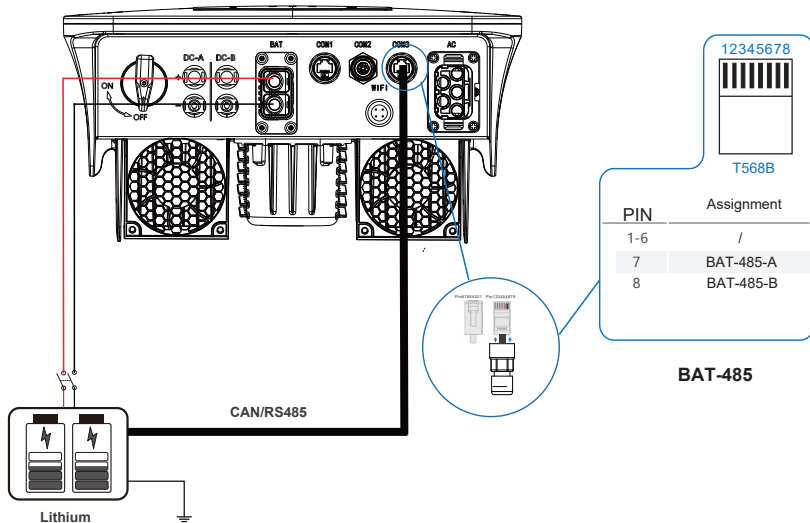
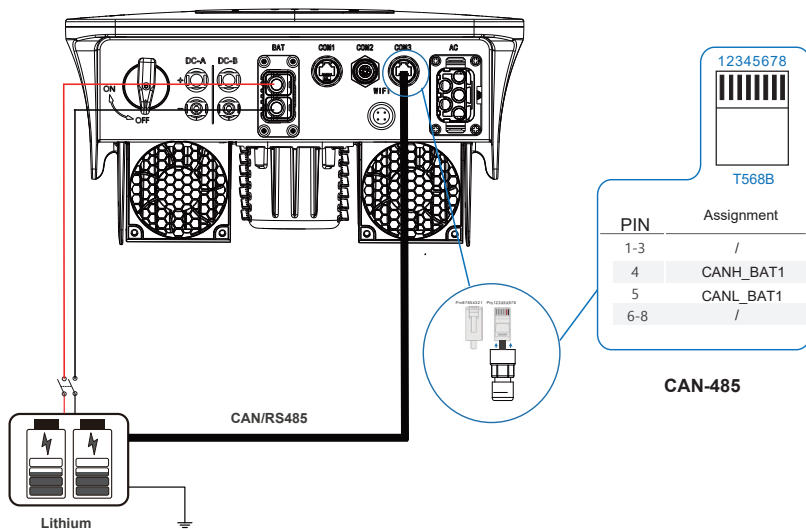


Step 4

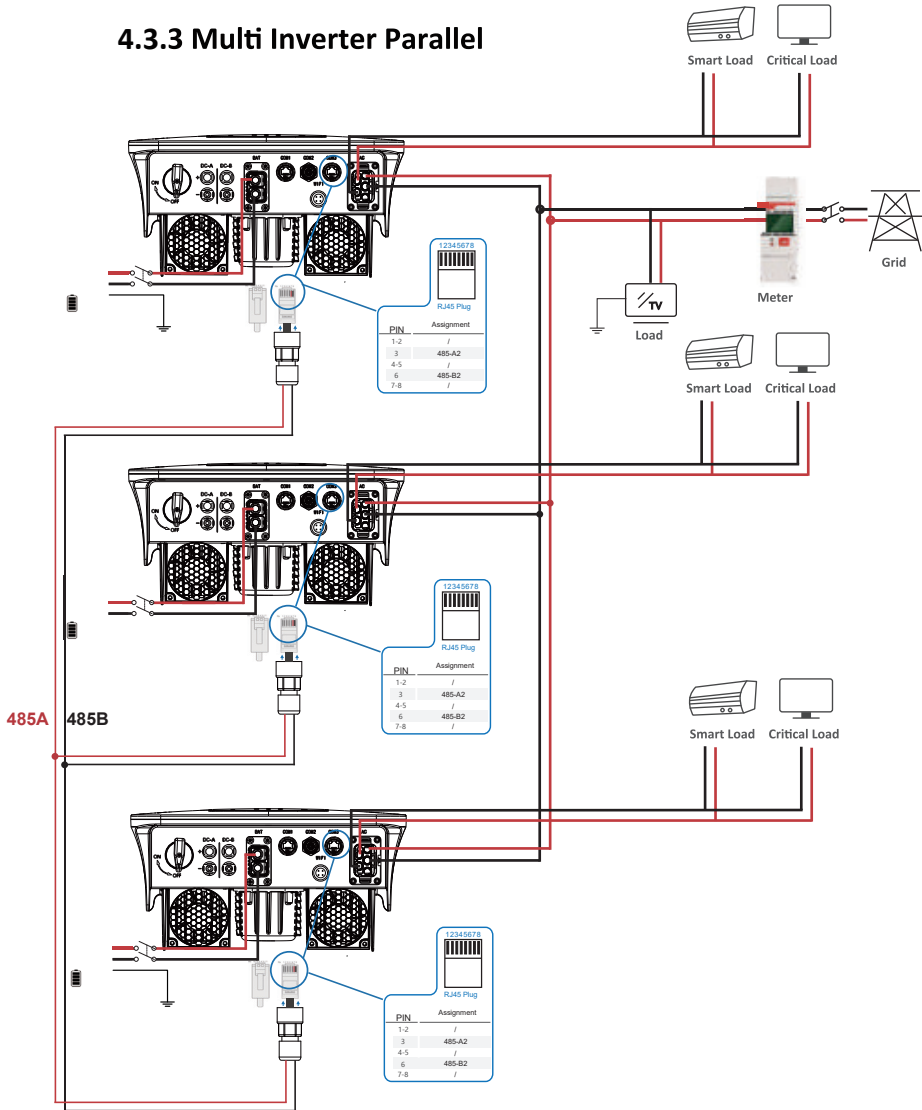
Insert the battery connector into the inverter, if hear a “click”, it means the battery connection is finished.



4.3.2.1 BAT-CAN/RS485



4.3.3 Multi Inverter Parallel



Note:

The meter only communicates with the host and does not communicate with the machine. Refer to chapters 4.3.5.

4.3.4 AC Connection

The AC terminal contains “GRID” and “EPS”, GRID for load, and EPS for emergency load.

Before connecting, a separate AC breaker between individual inverter and AC input power is necessary. This will ensure the inverter be securely disconnected during maintenance and fully protected from current of AC input.

An extra AC breaker is needed for On-Grid connection to be isolated from grid when necessary. Below are requirements for the On-Grid AC-breaker.

Inverter Model	AC breaker specification
VT-6607136	63A/200V/230V AC breaker



Note:

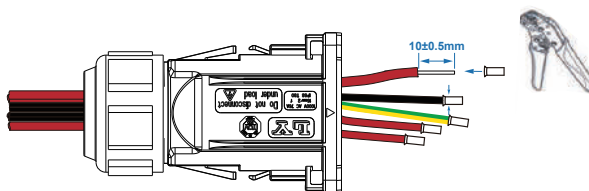
Qualified electrician will be required for the wiring.

Model	Wire Size	Cable (mm ²)	Torque value
VT-6607136	8-10AWG	4-6	1.2N·m

Please follow steps for AC connection

- Connect breaker first before connecting.
- remove insulation sleeve 11mm(0.5 inch) length, unscrew the bolts, insert the AC input wires according to polarities indicated on the terminal block and tighten the terminal screws.

Step 1





Note:

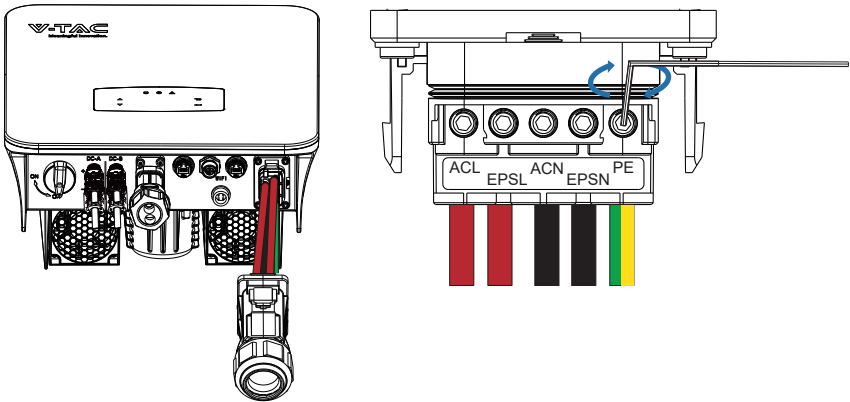
The wiring terminals should be wrapped with insulation tape, otherwise it will cause a short circuit and damage the inverter.



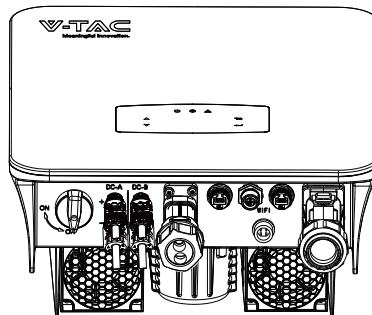
Note:

The Max. power load connects to EPS port should not exceed the inverter's EPS Max. output power range.

Step 2

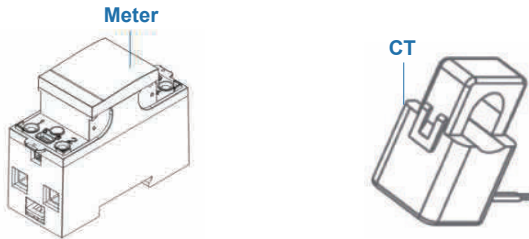


Step 3

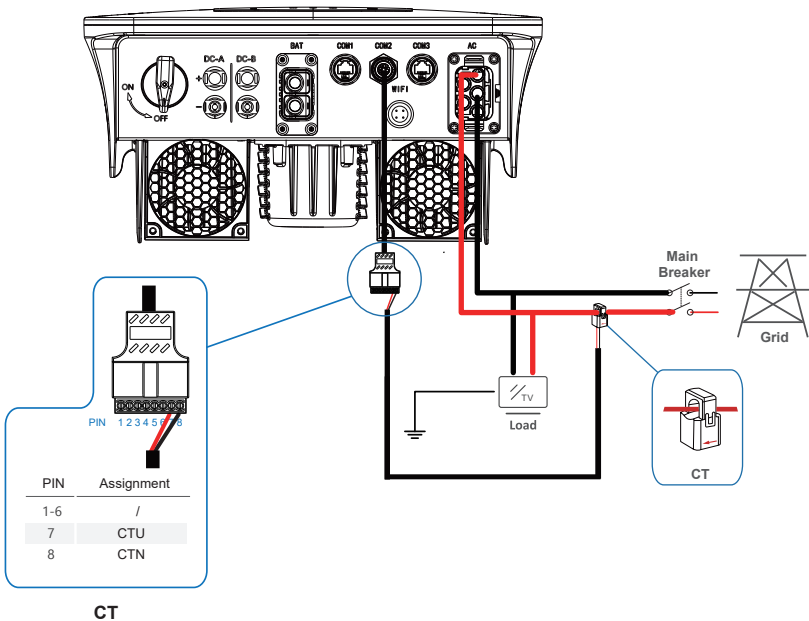


4.3.5 CT or Meter Connection

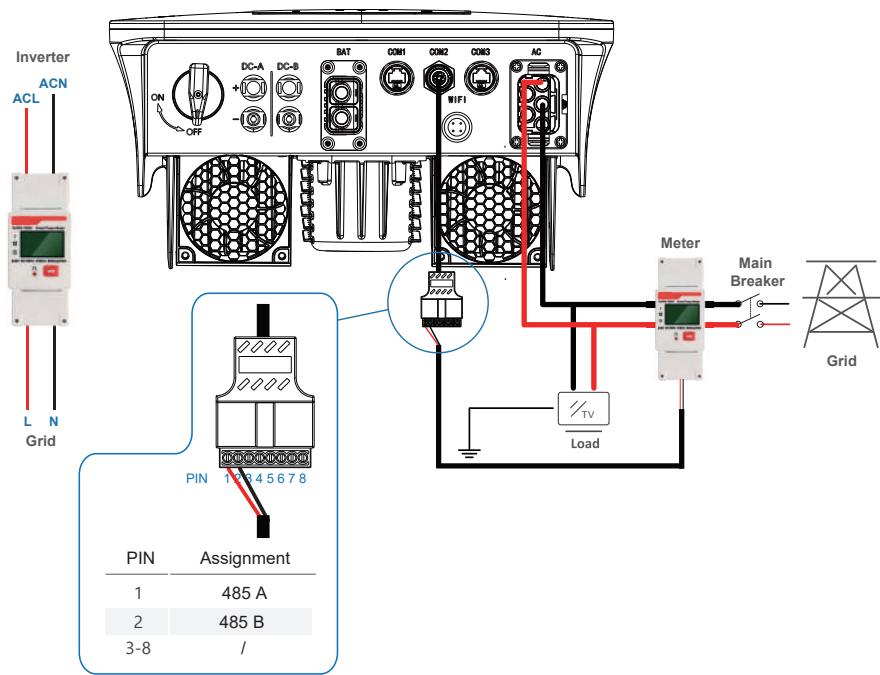
Meter and a current sensor(CT for short below) are used to detect current power direction of the local load and the grid. The output control function of the inverters will be activated based on the detected data.

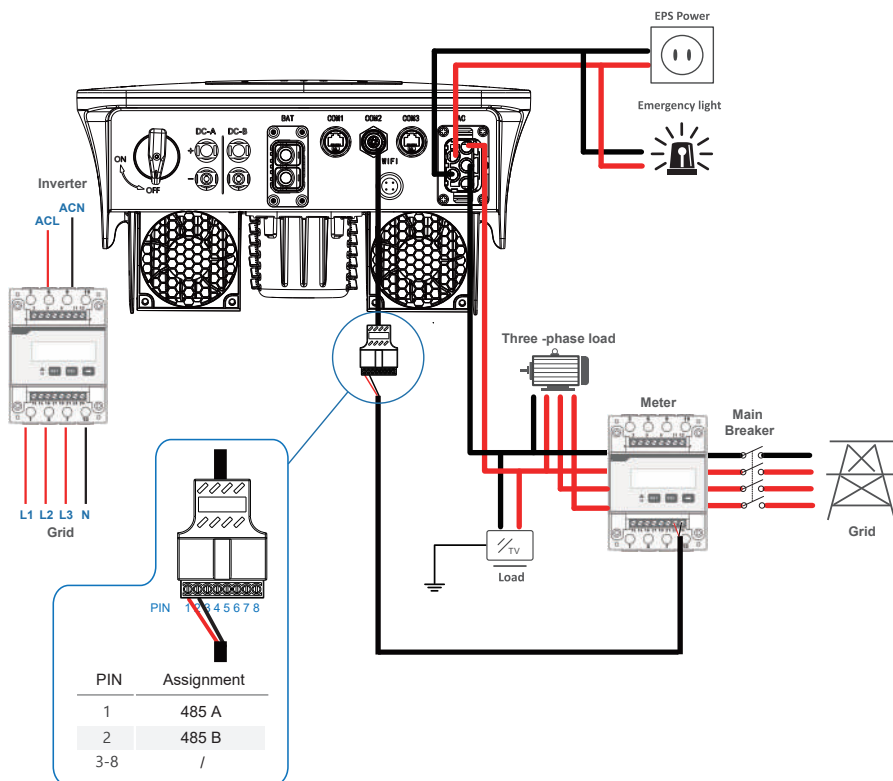


Install the CT



Install the Meter





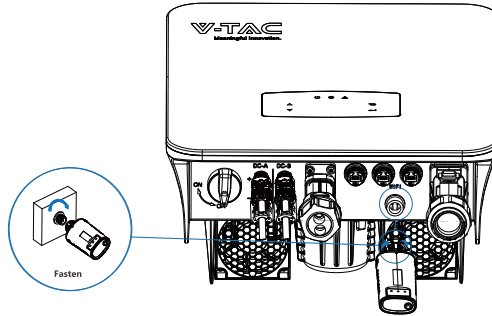
4.4 Communication Connection

The monitoring module could transmit the data to the cloud server, and display the data on the PC, tablet and smart-phone.

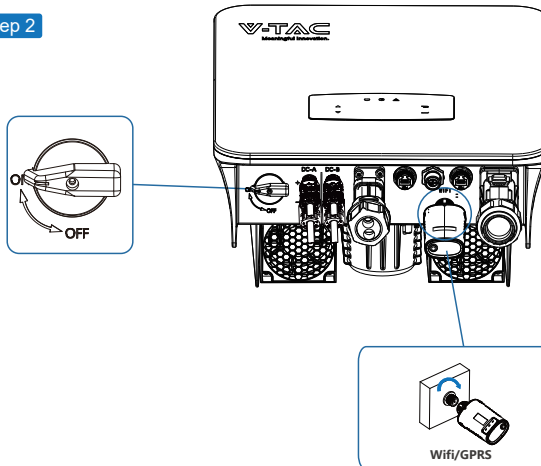
Install the WIFI / Ethernet / GPRS / RS485 Communication

WIFI / Ethernet / GPRS / RS485 communication is applicable to the inverter. Please refer to "Communication Configuration Instruction" for detailed instruction.

Step 1



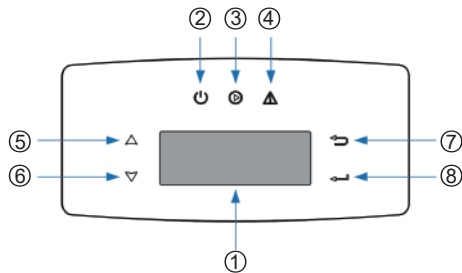
Step 2



Turn on the DC switch and AC circuit breaker, and wait until the LED indicator on the monitoring module flashes, indicating that the monitoring module is successfully connected.

5. Operation

5.1 Control Panel



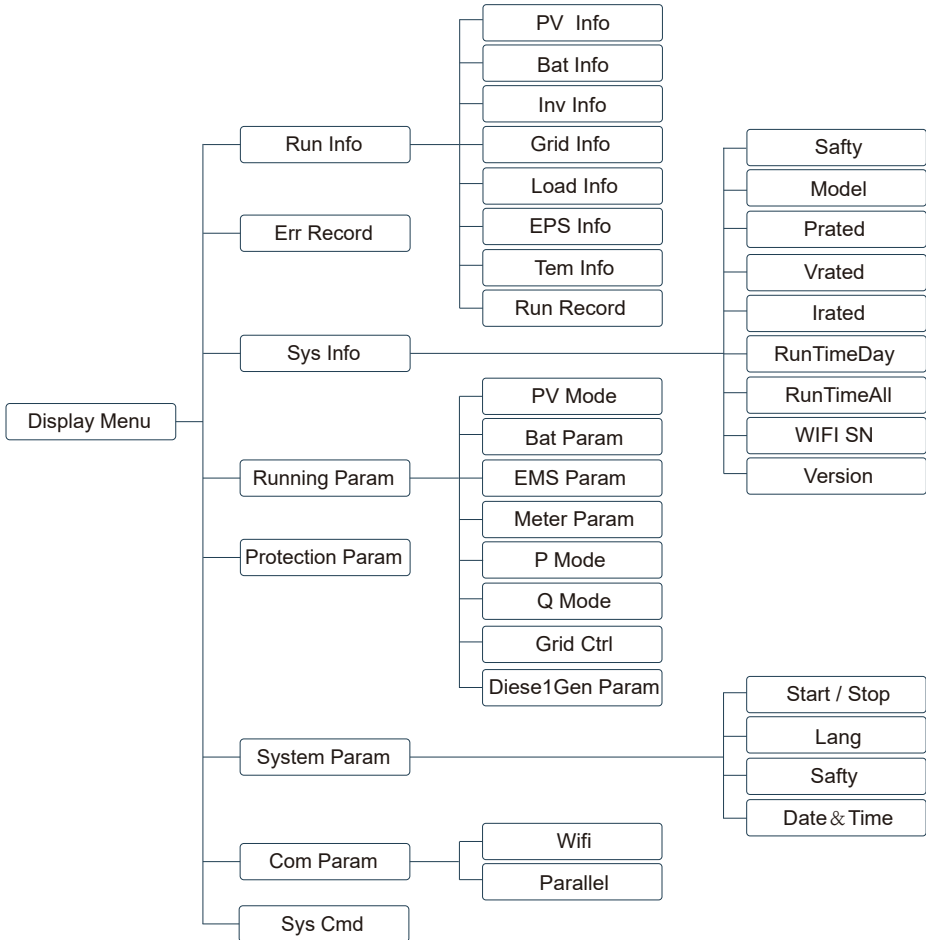
No.	Items	No.	Items
1	LCD Display	5	UP Touch Button
2	POWER LED Indicator	6	DOWN Touch Button
3	GRID LED Indicator	7	BACK Touch Button
4	FAULT LED Indicator	8	ENTER Touch Button

 **Note:**
Hold UP/DOWN button can be rolling quickly.

Sign	Power	Color	Explanation
POWER	ON	Green	The inverter is stand-by
	OFF		The inverter is power off
GRID	ON	Green	The inverter is feeding power
	OFF		The inverter is not feeding power
FAULT	ON	Red	Fault occurred
	OFF		No fault

5.2 Menu Overview

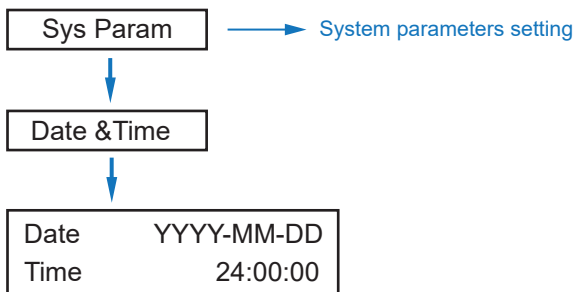
Hybrid inverter has a LCD for clearly operating, and menu of the LCD can be presented as following:



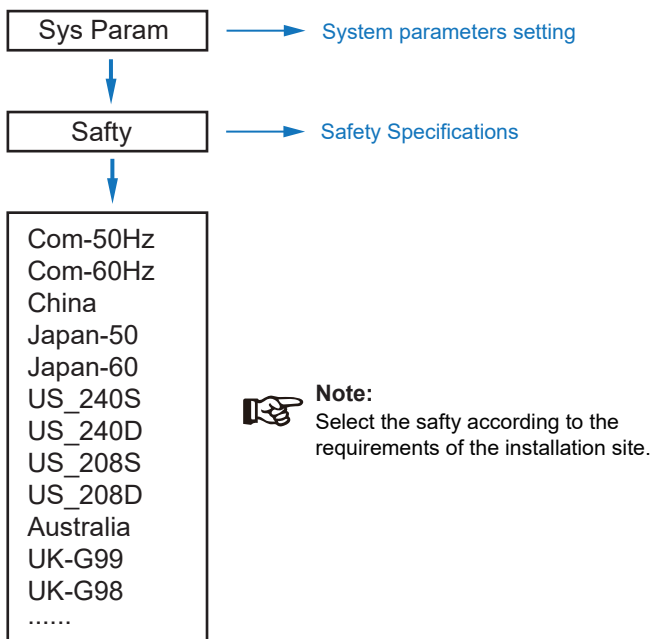
5.3 Inverter Setting

The setting is for Hybrid inverter. Any doubts, please contact distributor for more details.

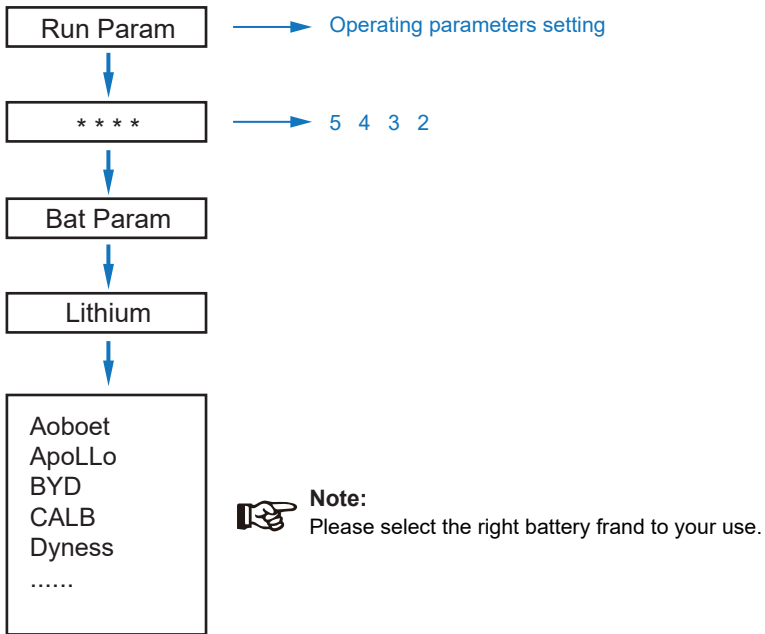
5.3.1 Time & Date



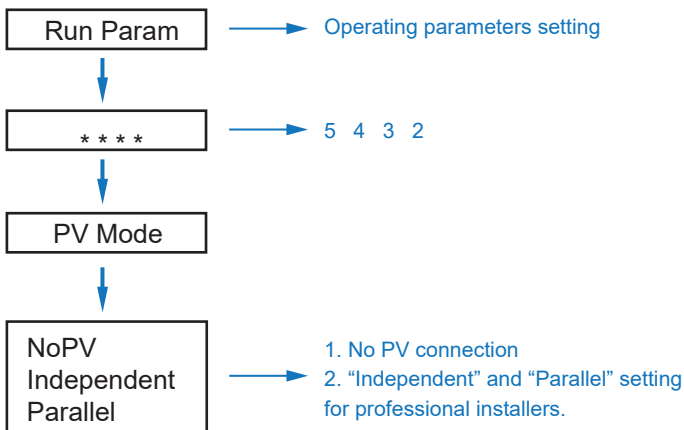
5.3.2 Safety



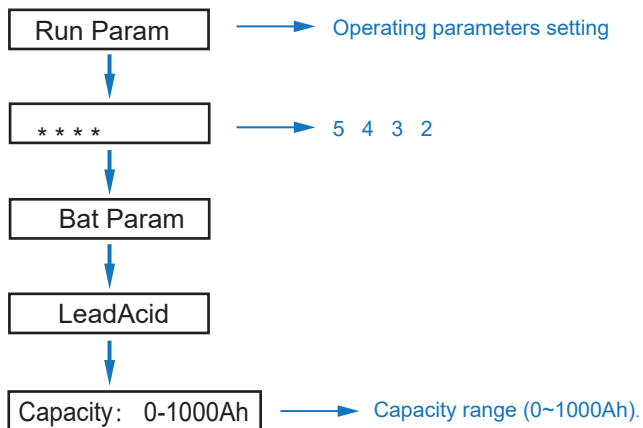
5.3.3 Lithium Battery



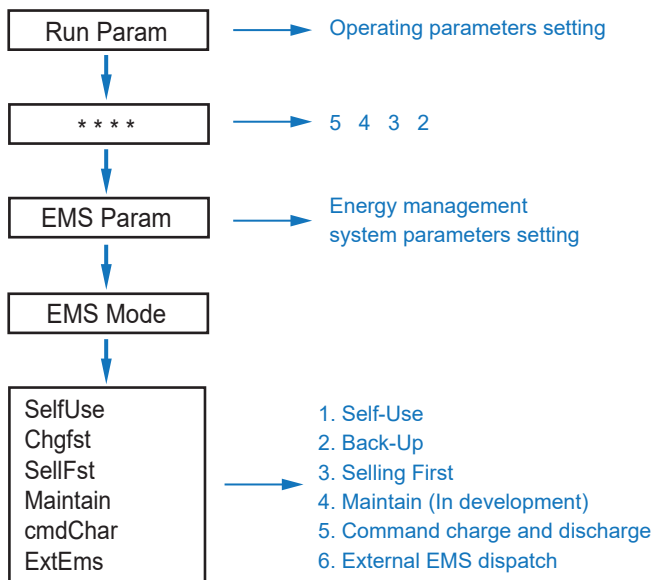
5.3.4 PV Mode



5.3.5 Lead Acid



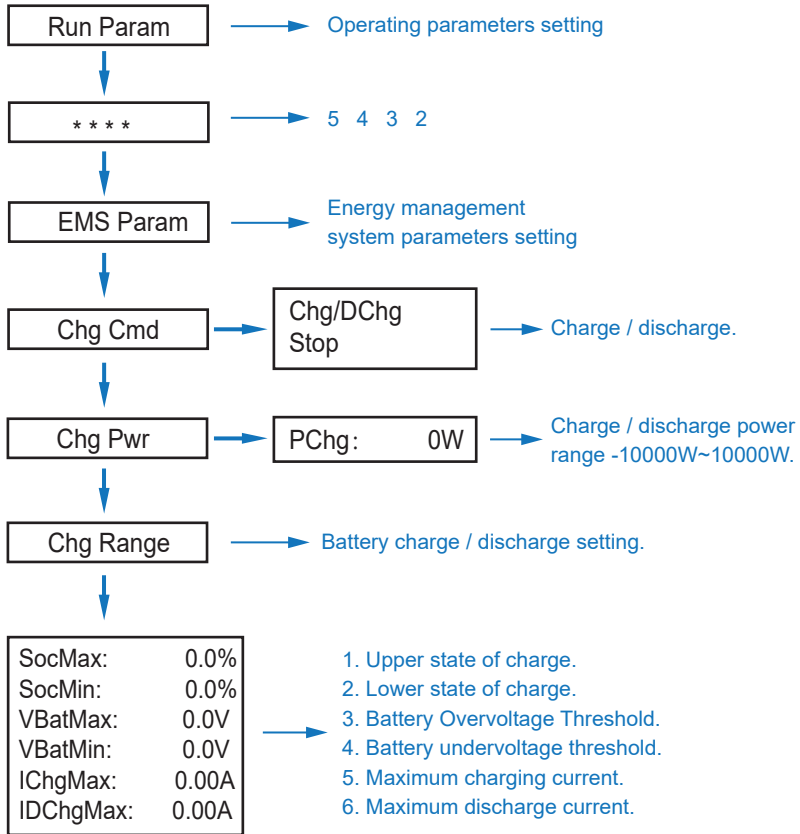
5.3.6 Energy Management System (EMS Param)



Note:

For detailed introduction of each mode, please refer to chapter 3.2 of the user manual.

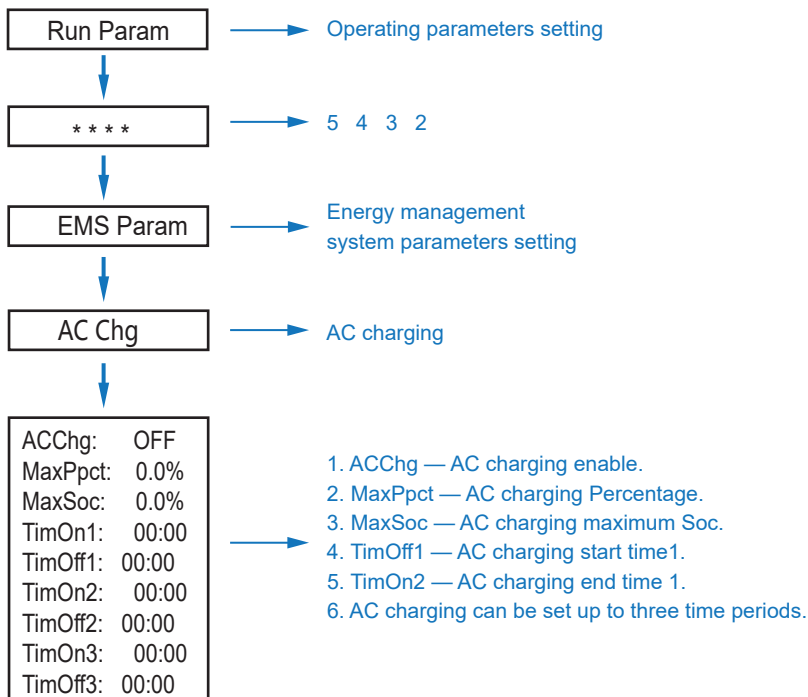
5.3.7 Time of Use



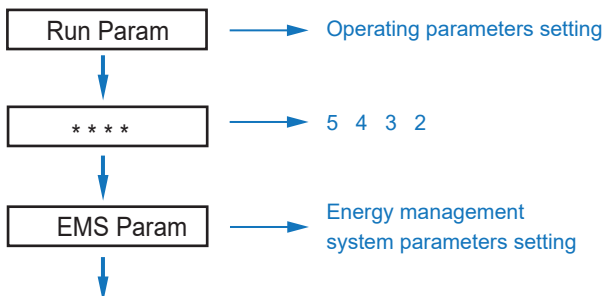
Note:

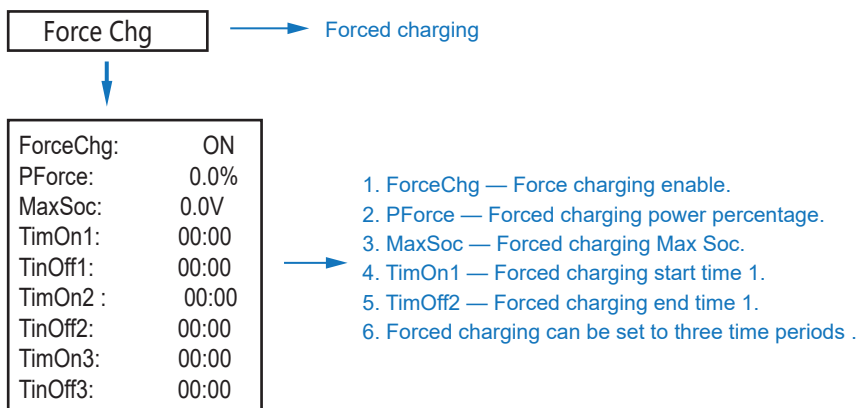
Timed charge and discharge need to complete the three settings of "Chg Cmd", "Chg Pwr" and "Chg Range", otherwise it will not work properly.

5.3.8 AC Charging

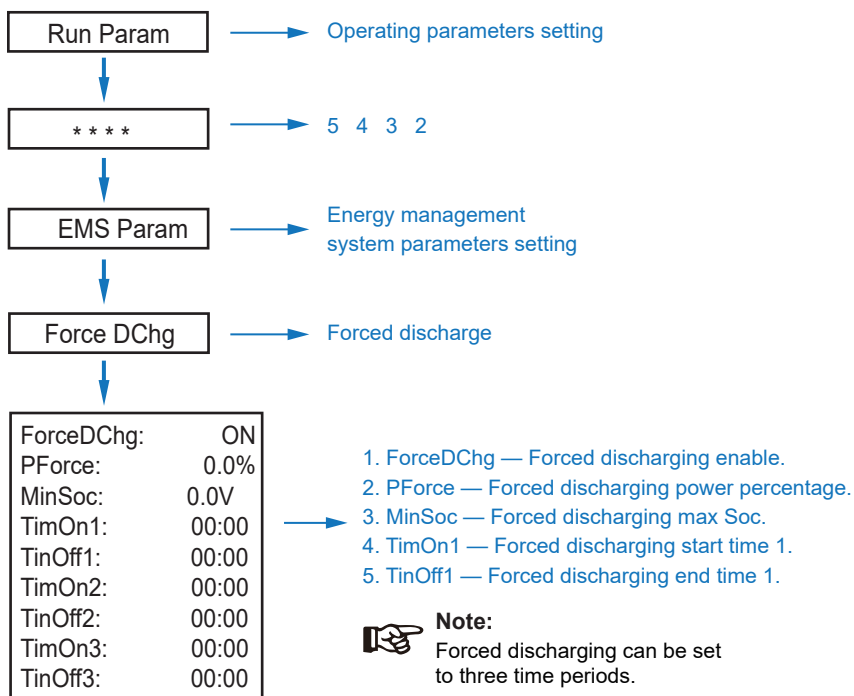


5.3.9 Forced Charging

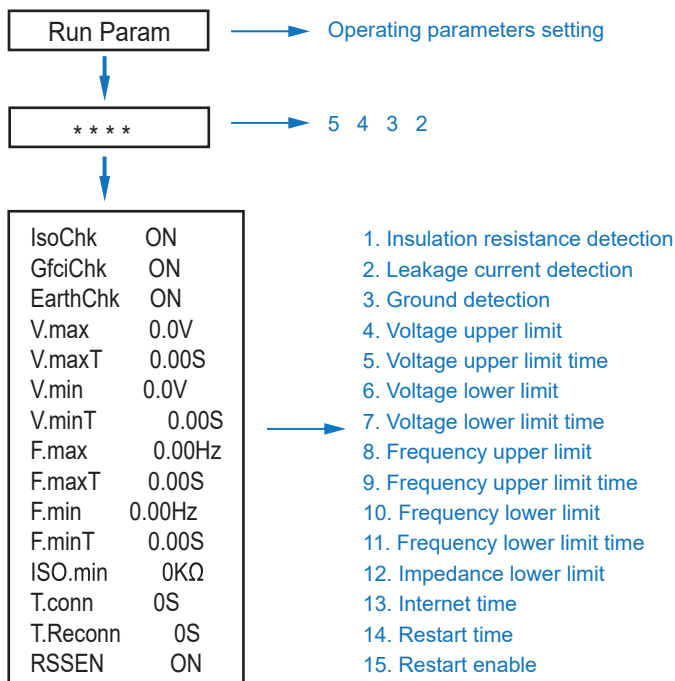




5.3.10 Forced Discharging



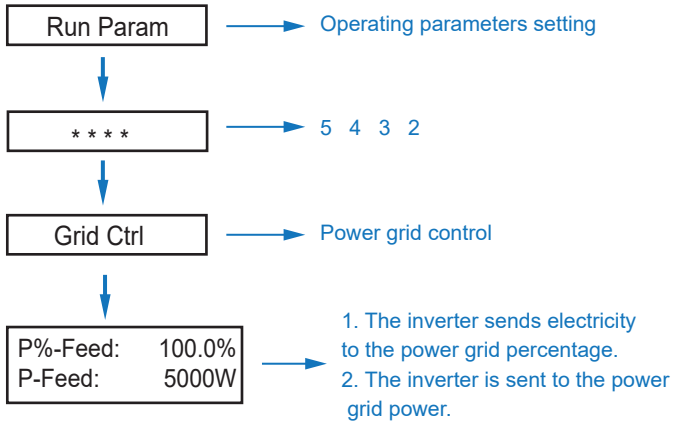
5.3.11 Protection Parameters



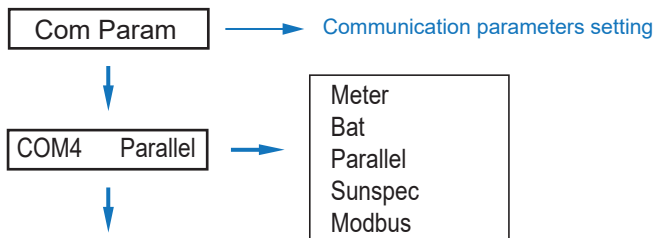
Note:

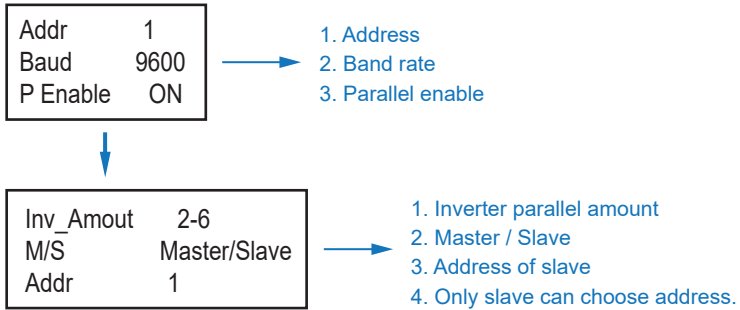
When modifying parameters, you need to pay attention to the unit.

5.3.12 Power grid control

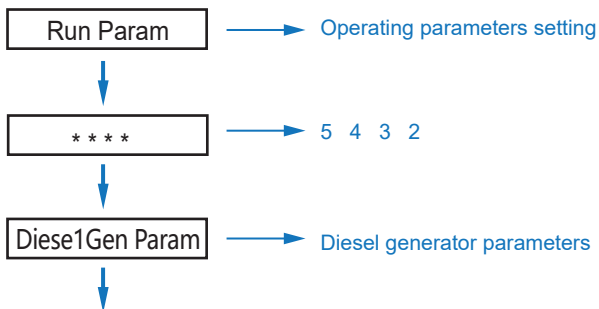


5.3.13 Multi-machine in Parallel





5.3.14 Diesel Generator Setting (Diese1 Gen Param)



Diese1Gen GenEn	ON
TimeCtr1Em	ON
TimeDelay	0S
StarSoc	20.0%
EndSoc	80.0%
TimOn1	00:00
TimOff1	00:00
TimOn2	00:00
TimOff2	00:00
TimOn3	00:00
TimOff3	00:00

1. Diese1Gen GenEn — Diesel generator enable.
2. TimeCtr1Em — Time control enable.
3. TimeDelay — Delay time of diesel generator start working.
4. StarSoc — Battery power percentage when diesel generator start charging the battery.
5. EndSoc — Battery power percentage when diesel generator stop charging the battery.
6. TimOn1 — Diesel generator start time 1.
7. TimOff1 — Diesel generator off time 2.



Note:

Diesel generator enable and time control enabled must be on, other wise the diesel generator can not be started.

6. Power ON/OFF

Please check the following requirements before testing:

- Installation location is suitable according to Chapter 4.1.3.
- All electrical wires are connected tightly, including PV modules, battery and AC side(Such as the grid side, EPS side, Gen side).
- Earth line and Smart meter/CT line are connected.
- Hybrid inverters should be set according to the required local grid standard.
- More information please contact with Afore or distributors.

6.1 Power ON

- Turn on DC switch.
- After LCD lighting, hybrid inverter should be set following Chapter 5.3 at the first time.
- When inverter running under normal mode, Running indicator will light up(Ref. to Chapter 5.1).

6.2 Power OFF

- Turn off DC switch (in hybrid inverter) and all extra-breaker.

**Note:**

Hybrid inverter should be restarted after 5 minutes.

6.3 Restart

Restart Hybrid inverter, please follow steps as below:

- Shutdown the inverter Ref. to Chapter 6.2.
- Start the inverter Ref. to Chapter 6.1.

7. Maintenance & Trouble Shooting

7.1 Maintenance

Periodically maintenance are necessary, please follow steps as below.

- PV connection: twice a year
- AC connection(Grid and EPS) : twice a year
- Battery connection: twice a year
- Earth connection: twice a year
- Heat sink: clean with dry towel once a year

7.2 Trouble Shooting

The fault messages are displayed when fault occurs, please check trouble shooting table and find related solutions.

Fault Code and Trouble Shooting

Type of Fault	Code	Name	Description	Recommend Solution
PV Fault	A01	PvConnectFault	PV connection type different from setup	• Check PV modules connection • Check PV Mode setup Ref. Chapter 5.3.
	A02	IsoFault	ISO check among PV panels/ wires and ground is abnormal.	• Check PV modules wires, those wires are soaked or damaged, and then carry out rectification. • if the fault occurs continuously and frequently, please ask help for local distributors.
	A03	PvAfcifault	PV current arcing	• Check PV modules wires and connectors broken or loose connect, and then carry out rectification. • If the fault occurs continuously and frequently, please ask help for local distributors.
	A04	Pv1OverVoltFault	PV Voltage over	• Reconfiguration of PV strings, reduce the PV number of a PV string to reducing inverter PV input voltage. • Suggestion that contacting with local distributors.
	A05	Pv2OverVoltFault		
	A06	Pv3OverVoltFault		
	A07	Pv4OverVoltFault		
	A08	Pv5OverVoltFault		
	A09	Pv6OverVoltFault		
	A10	Pv7OverVoltFault		
	A11	Pv8OverVoltFault		
	A12	Pv9OverVoltFault		
	A13	Pv10OverVoltFault		
	A14	Pv11OverVoltFault		
	A15	Pv12OverVoltFault		
	A16	PV1ReverseFault	PV(+) and PV(-) reversed Connection	• Check PV(+) and PV(-) Connect whether reversed or not. • If reversed, make correction.
	A17	PV2ReverseFault		
	A18	PV3ReverseFault		
	A19	PV4ReverseFault		
	A20	PV5ReverseFault		
	A21	PV6ReverseFault		

Type of Fault	Code	Name	Description	Recommend Solution
PV Fault	A22	PV7ReverseFault		
	A23	PV8ReverseFault		
	A24	PV9ReverseFault		
	A25	PV10ReverseFault		
	A26	PV11ReverseFault		
	A27	PV12ReverseFault		
	A33	Pv1AbnormalFault	PV(+) and PV(-) reversed Connection	• Check PV modules partial occlusion or cells damaged. • Check PV module wires and connectors broken or loose connect, then repair it.
	A34	Pv2AbnormalFault		
	A35	Pv3AbnormalFault		
	A36	Pv4AbnormalFault		
	A37	Pv5AbnormalFault		
	A38	Pv6AbnormalFault		
	A39	Pv7AbnormalFault		
	A40	Pv8AbnormalFault		
	A41	Pv9AbnormalFault		
	A42	Pv10AbnormalFault		
	A43	Pv11AbnormalFault		
	A44	Pv12AbnormalFault		
	A45	Pv13AbnormalFault		
	A46	Pv14AbnormalFault		
	A47	Pv15AbnormalFault		
	A48	Pv16AbnormalFault		
	A49	Pv17AbnormalFault		
	A50	Pv18AbnormalFault		
	A51	Pv19AbnormalFault		
	A52	Pv20AbnormalFault		
	A53	Pv21AbnormalFault		
	A54	Pv22AbnormalFault		
	A55	Pv23AbnormalFault		
	A56	Pv24AbnormalFault		

Type of Fault	Code	Name	Description	Recommend Solution
Battery Fault	B01	PcsBatOverVoltFault	Battery voltage over or under	• Check inverters connected battery lines and connectors broken or loose connect. • Carry out rectification if broken or loose. • Checking battery voltage is abnormal or not, then maintenance or change new battery.
	B02	PcsBatUnderVoltFault		
	B03	PcsBatInsOverVoltFaul		
	B04	PcsBatReversedFault	Bat. (+) and Bat. (-) are reversed.	• Check Bat.(+) and Bat.(-)connect reversed or not. • Make correction If reversed.
	B05	PcsBatConnectFault	Battery wires loose	• Check battery wires and connectors damage or loose connect. • Carry out rectification if break.
	B06	PcsBatComFault	Battery communication abnormal	• Check battery side communication wires damage or loose connect, and then carry out rectification. • Check battery is off or other abnormal, then Mastertenance battery or change new battery.
	B07	PcsBatTempSensorOpen	Battery temperature sensor abnormal	• Check battery temperature sensor and connected wires damage or not , then rectification or change new one.
	B08	PcsBatTempSensorShort		
	B09	BmsBatSystemFault	All these faults will be detected or reported by battery BMS.	• If specific fault high temperature or low temperature, then should change battery installed environment temperature. • Restart battery, maybe can working as normal. • If this fault occurs continuously and frequently, please ask help for local distributors.
	B10	BmsBatVolOverFault		
	B11	BmsBatVolUnderFault		
	B12	BmsCellVolOverFault		
	B13	BmsCellVolUnderFault		
	B14	BmsCellVolUnbanceFau		
	B15	BatChgCurOverFault		
	B16	BatDChgCurOverFault		
	B17	BatTemperatureOverFa		
	B18	BatTemperatureUnderF		
	B19	CelTemperatureOverFa		
	B20	CelTemperatureUnderF		
	B21	BatIsoFault		
	B22	BatSocLowFault		
	B23	BmsInterComFault		
	B24	BatRelayFault		

Type of Fault	Code	Name	Description	Recommend Solution
Battery Fault	B25	BatPreChaFault		
	B26	BmsBatChgMosFault		
	B27	BmsBatDChgMosFault		
	B28	BMSVolOVFault		
	B29	BMSVolLFault		
	B30	VolLockOpenFault		
	B31	VolLockShortFault		
	B32	ChgRefOVFault		
	C01	GridLossFault	Grid lost (islanding)	• Inverter will restart automatically when the grid return to normal. • Check inverter connected with grid connectors and cable normal or not.
	C02	GridUnbalanVoltFault	Grid Voltage unbalanced.	• The inverter will restart automatically when the grid three phase return to normal. • Check inverter connected with the grid connectors and wires normal or not.con-nectors and cable normal or not.
	C03	GridInstOverVoltFault	Grid instantaneous voltage over	• The inverter will restart automatically when the grid three phase return to normal. • Contact with local distributor or required grid company adjust protection parameters.
	C04	Grid10MinOverVoltFault	Grid voltage Over by 10 Minutes	• The inverter will restart automatically when the grid three phase return to normal. • Contact with local distributor or required grid company adjust 10 minutes protection voltage parameters.
	C05	GridOverVoltFault	Grid voltage over	• The inverter will restart automatically when the grid three phase return to normal. • Contact with local distributor or required grid company adjust voltage protection parameters.
	C06	GridUnderVoltFault	Grid voltage under	
	C07	GridLineOverVoltFault	Grid line voltage over	
	C08	GridLineUnderVoltFault	Grid line voltage under	
	C09	GridOverFreqFault	Grid Frequency over	• The inverter will restart automatically when the grid three phase return to normal. • Contact with local distributor or required grid company adjust frequency protection parameters.
	C10	GridUnderFreqFault	Grid Frequency under	

Type of Fault	Code	Name	Description	Recommend Solution
Off-grid Fault	D01	UpsOverPowerFault	Off-grid load over	• Reduce loads. • If sometimes overload, it can be ignored, when generation power enough can be recovery. • If those faults occurs continuously and frequently, please ask help for local distributors.
	D02	GridConflictFault	Grid connected to Back-up terminal	• Check the off-grid port connection correct, disconnect both off-grid and grid ports.
	D03	GenOverVoltFault	GenOverVoltFault	• Adjust generator running parameters, make the output voltage, frequency in allowed range. • If this fault occurs continuously and frequently, please ask help for local distributors.
	D04	GenUnderVoltFault	GenUnderVoltFault	
	D05	GenOverFreqFault	GenOverFreqFault	
	D06	GenUnderFreqFault	GenUnderFreqFault	
DC Fault	E01	Pv1HwOverCurrFault	PV current over, triggered by hardware protection circuit	• Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.
	E02	Pv2HwOverCurrFault		
	E03	Pv3HwOverCurrFault		
	E04	Pv4HwOverCurrFault		
	E05	Pv5HwOverCurrFault		
	E06	Pv6HwOverCurrFault		
	E07	Pv7HwOverCurrFault		
	E08	Pv8HwOverCurrFault		
	E09	Pv9HwOverCurrFault		
	E10	Pv10HwOverCurrFault		
	E11	Pv11HwOverCurrFault		
	E12	Pv12HwOverCurrFault		
	E13	Pv1SwOverCurrFault	PV current over, triggered by Software logic.	• Power off, power on then restart. • If those faults occurs continuously and frequently, please ask help for local distributors.
	E14	Pv2SwOverCurrFault		
	E15	Pv3SwOverCurrFault		
	E16	Pv4SwOverCurrFault		
	E17	Pv5SwOverCurrFault		
	E18	Pv6SwOverCurrFault		
	E19	Pv7SwOverCurrFault		
	E20	Pv8SwOverCurrFault		

Type of Fault	Code	Name	Description	Recommend Solution	
DC Fault	E21	Pv9SwOverCurrFault			
	E22	Pv10SwOverCurrFault			
	E23	Pv11SwOverCurrFault			
	E24	Pv12SwOverCurrFault			
	E33	Boost1SelfCheck(boost)Fault	PV boost circuit abnormal when self checking	• Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.	
	E34	Boost2SelfCheck(boost)Fault			
	E35	Boost3SelfCheck(boost)Fault			
	E36	Boost4SelfCheck(boost)Fault			
	E37	Boost5SelfCheck(boost)Fault			
	E38	Boost6SelfCheck(boost)Fault			
	E39	Boost7SelfCheck(boost)Fault			
	E40	Boost8SelfCheck(boost)Fault			
	E41	Boost9SelfCheck(boost)Fault			
	E42	Boost10SelfCheck(boost)Fault			
	E43	Boost11SelfCheck(boost)Fault			
	E44	Boost12SelfCheck(boost)Fault			
	E45	BusHwOverVoltFault	Bus voltage over	• Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.	
	E46	BusHwOverHalfVoltFault			
	E47	BusSwOverVoltFault			
	E48	BusSwOverHalfVoltFault			
	E49	BusSwUnderVoltFault	Bus voltage under as running	• Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.	
	E50	BusUnbalancedFault	DC Bus voltage unbalanced		
	E51	BusBalBridgeHwOver-CurFault	Bus Controller current over		• Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.
	E52	BusBalBridgeSwOver-CurFault			
	E53	BusBalBridgeSelf-CheckFault	Bus Controller abnormal when self checking	• Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.	
	E54	BDCHwOverCurrFault	BiDC current over		
	E55	BDCSwOverCurrFault			
	E56	BDCSelfCheckFault	BiDC abnormal as self checking		
E57	BDCSwOverVoltFault	BiDC voltage over			
E58	TransHwOverCurrFault	BiDC current over			

Type of Fault	Code	Name	Description	Recommend Solution
	E59	BDCFuseFault	BiDC fuse broken	• Change fuse.
	E60	BDCRelayFault	BiDC relay abnormal	• Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.
AC Fault	F01	HwOverFault	All over current/ voltage by protection hardware	• Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.
	F02	InvHwOverCurrFault	Ac over current by protection hardware	
	F03	InvROverCurrFault	R phase current over	
	F04	InvSOverCurrFault	S phase current over	
	F05	InvTOverCurrFault	T phase current over	
	F06	GridUnbalanCurrFault	On-grid current unbalanced	
	F07	DcInjOverCurrFault	DC injection current over	
	F08	AcOverLeakCurrFault	Ac side leakage current over	• Check AC insulation and ground wires connect ground is well or not, then repair it. • Power off, then restart (Ref. Chapter8).. • If those fault occurs continuously and frequently, please ask help for local distributors.
	F09	PLLFault	PLL abnormal	• Power off, then restart (Ref. Chapter8). • If those fault occurs continuously and frequently, please ask help for local distributors.
	F10	GridRelayFault	Grid relay abnormal	
	F11	UpsRelayFault	Ups relay abnormal	
	F12	GenRelayFault	Generator relay abnormal	
	F13	Relay4Fault	Relay4 abnormal	
	F14	UpsROverCurrFault	Off-grid output current over	• When off-grid the load start impulse current is over, reduce the start impulse current load. • Power off, then restart (Ref. Chapter8). • If those fault occurs continuously and frequently, please ask help for local distributors.
	F15	UpsSOverCurrFault		
	F16	UpsTOverCurrFault		
	F17	GenROverCurrFault	Generator current over	• Check generator output voltage, frequency is stability, and adjust generator. • Power off, then restart(Ref. Chapter8). • If those fault occurs continuously and frequently, please ask help for local distributors.
	F18	GenSOverCurrFault		
	F19	GenTOverCurrFault		
	F20	GenReversePowerFault	Active power injected to generator	

Type of Fault	Code	Name	Description	Recommend Solution
AC Fault	F21	UpsOverVoltFault	Off-grid output voltage over or under	• Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.
	F22	UpsUnderVoltFault		
	F23	UpsOverFreqFault	Off-grid output frequency over or under	
	F24	UpsUnderFreqFault		
	F25	DclnjOverVoltFault	Off-grid DC injection voltage over	
System Fault	G01	PV1CurAdChanFault	Sampling hardware abnormal	• Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.
	G02	PV2CurAdChanFault		
	G03	PV3CurAdChanFault		
	G04	PV4CurAdChanFault		
	G05	PV5CurAdChanFault		
	G06	PV6CurAdChanFault		
	G07	PV7CurAdChanFault		
	G08	PV8CurAdChanFault		
	G09	PV9CurAdChanFault		
	G10	PV10CurAdChanFault		
	G11	PV11CurAdChanFault		
	G12	PV12CurAdChanFault		
	G13	BDCCurrAdChanFault		
	G14	TransCurAdChanFault		
	G15	BalBrigCurAdChanFault		
	G16	RInvCurAdChanFault		
	G17	SInvCurAdChanFault		
	G18	TInvCurAdChanFault		
	G19	RInvDciAdChanFault		
	G20	SInvDciAdChanFault		
	G21	TInvDciAdChanFault		
	G22	LeakCurAdChanFault		
	G23	VoltRefAdChanFault		
	G24	UpsRCurAdChanFault		

Type of Fault	Code	Name	Description	Recommend Solution
System Fault	G25	UpsSCurAdChanFault		
	G26	UpsTCurAdChanFault		
	G27	GenRCurAdChanFault		
	G28	GenSCurAdChanFault		
	G29	GenTCurAdChanFault		
	G30	UpsRDcvAdChanFault		
	G31	UpsSDcvAdChanFault		
	G32	UpsTDcvAdChanFault		
	G37	TempAdChanFault	All temperature sensors abnormal	• Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.
	G38	VoltAdConflictFault	The sample value of PV, battery and BUS voltage inconsistent	
	G39	CPUAdConflictFault	The sample value between master CPU and slaver CPU inconsistent	
	G40	PowerCalcConflictFault	Power value between PV, battery and AC output inconsistent	
	G41	EnvirOverTempFault	Installation environment temperature over or low	• Change or improve the installation environment temperature, make running temperature suitable. • Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.
	G42	EnvirLowTempFault		
	G43	CoolingOverTempFault	Cooling temperature over or low	
	G44	CoolingLowTempFault		
G45	OverTemp3Fault	Temperature3 over or low		
G46	LowTemp3Fault			
G47	CpuOverTempFault	CPU temperature over		
G48	ModelConflictFault	Version conflict with inverter	• Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.	
Inner Warning	I01	InterFanWarning	Fan abnormal	• Remove foreign matter logged in fan. • If those faults occurs continuously and frequently, please ask help for local distributors.
	I02	ExterFanWarning		
	I03	Fan3Warning		

8. Specifications

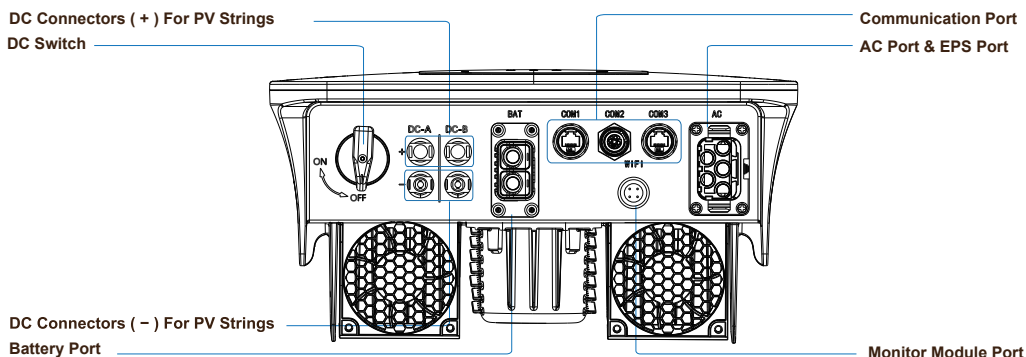
■ Technical Data

PV Input	
Max. Input Power (kW)	5.4
Max. PV Voltage (V)	550
MPPT Range (V)	80 - 500
Full MPPT Range (V)	110 - 500
Normal Voltage (V)	360
Startup Voltage (V)	100
Max. Input Current (A)	18.5 x 2
Max. Short Current (A)	26 x 2
No. of MPP Tracker / No. of PV String	2 / 2
Battery Port	
Max. Charge/Discharge Power (kW)	3.6
Max. Charge/Discharge Current (A)	80
Battery Normal Voltage (V)	51.2
Battery Voltage Range (V)	40 - 60
Battery Type	Li-ion / Lead-acid etc.
AC Grid	
Max Continuous Current (A)	17.0
Max Continuous Power (kVA)	3.6
Nominal Grid Current (A)	16.4 / 15.7
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230
Nominal Grid Frequency (Hz)	50 / 60
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)
Current THD (%)	< 3
AC Load Output	
Max Continuous Current (A)	17.0
Max Continuous Power (kVA)	3.6
Max Peak Current (A) (10min)	24.6 / 23.5
Max Peak Power (kVA) (10min)	5.4
Nominal AC Voltage L-N (V)	220 / 230
Nominal AC Frequency (Hz)	50 / 60
Switching Time (ms)	Seamless
Voltage THD (%)	< 3
Efficiency	
CEC Efficiency (%)	97.0
Max. Efficiency (%)	97.6
PV to Bat. Efficiency (%)	98.1
Bat. between AC Efficiency (%)	96.8
Protection	
PV Reverse Polarity Protection	Yes
Over Current/Voltage Protection	Yes
Anti-Islanding Protection	Yes
AC Short Circuit Protection	Yes
Residual Current Detection	Yes
Ground Fault Monitoring	Yes
Insulation Resister Detection	Yes
PV Arc Detection	Yes
Enclosure Protect Level	IP65 / NEMA4X
General Data	
Dimensions (W x H x D, mm)	370 x 535 x 192
Weight (kg)	18.5
Topology	Transformerless
Cooling	Intelligent Fan
Relative Humidity	0 - 100 %
Operating Temperature Range (°C)	- 25 to 60
Operating Altitude (m)	< 4000
Noise Emission (dB)	< 25
Standby Consumption (W)	< 10
Mounting	Wall Bracket
Communication with RSD	SUNSPEC
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G
Certification & Approvals	NR5097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2
EMC	EN61000-6-2, EN61000-6-3

Type of Fault	Code	Name	Description	Recommend Solution
Inner Warning	I04	EnvirTempAdChanWarning	Some temperature sensors abnormal	- The warnings are not matter influence. - Power off, then restart (Ref. Chapter8). - If those faults occurs continuously and frequently, please ask help for local distributors.
	I05	CoolingTempAdChanWarning		
	I06	Temp3AdChanWarning		
	I07	ExtFlashComWarning	Flash abnormal	- Power off, then restart (Ref. Chapter8). - If this those faults continuously and frequently, please ask help for local distributors.
	I08	EepromComWarning	Eeprom abnormal	
	I09	SlaveComWarning	Communication between slaver CPU and master CPU abnormal	
	I10	HmiComWarning	HMI abnormal	
	I11	FreqCalcConflictWarning	Frequency value abnormal	
	I12	UnsetModel	Running model is not initial	Contact with local distributor.
Outside Warning	J01	MeterComWarning	Meter/CT abnormal	- Check the smart meter model, connection or connectors are correct, any loose. - if abnormal, repair or change. - Power off, then restart (Ref. Chapter8). - If those faults occurs continuously and frequently, please ask help for local distributors.
	J02	MeterConnectWarning	Wires connecting type of meter wrong	- Check Meter/CT connection, installed place, and installed direction. - if abnormal, re-installation. - Power off, then restart (Ref. Chapter8). - If this those faults continuously and frequently, please ask help for local distributors.
	J03	SohWarning	Battery SOH low	Contact with Battery manufacturer.
	J04	GndAbnormalWarning	Earth impedance over by cable loose and so on	- Check earth line connection or earth connecting impedance. - if abnormal, then adjust it. - Power off, then restart (Ref. Chapter8). - If this those faults continuously and frequently, please ask help for local distributors.
	J05	ParallelComWarning	Communication between master inverter and slaver ones abnormal in parallel mode	- Check parallel connect communication wires damage, connectors loose, connect port correct or not. - if not, then adjust it. - Power off, then restart (Ref. Chapter8). - If this those faults continuously and frequently, please ask help for local distributors.

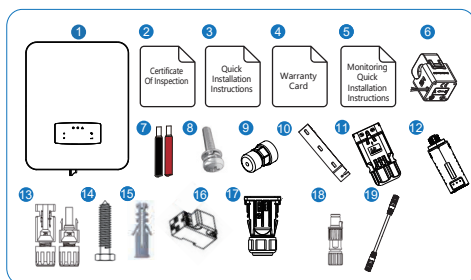
QUICK INSTALLATION GUIDE

OVERVIEW

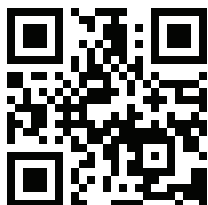


PACKAGE LIST

Please check to make sure the packing and all components are not missing or damaged. Please contact your dealer directly for supports if there is any damage or missing components.



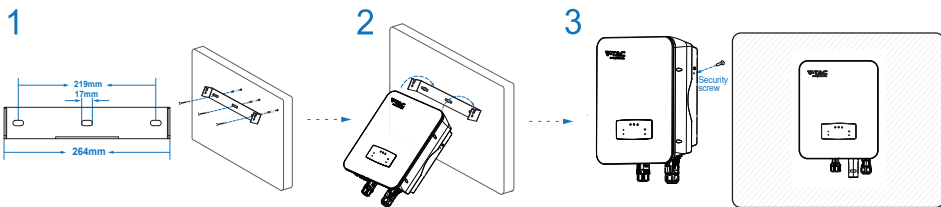
No.	Qty	Items	No.	Qty	Items
1	1	Hybrid Inverter	11	1	Battery Connector
2	1	Certificate Of Inspection	12	1	Monitor Module
3	1	Quick Installation Instructions	13	2	DC Connector
4	1	Warranty Card	14	3	Mounting Bracket Screw
5	1	Monitoring Quick Installation Instructions	15	3	Plastic Expansion Tube
6	1	CT	16	1	Smart Meter (Optional)
7	1	Battery wire	17	1	AC Waterproof Cover
8	1	Security Screw	18	1	Meter Connectors
9	3	Communication Connectors	19	2	Communication T568B
10	1	Wall Mounting Bracket			



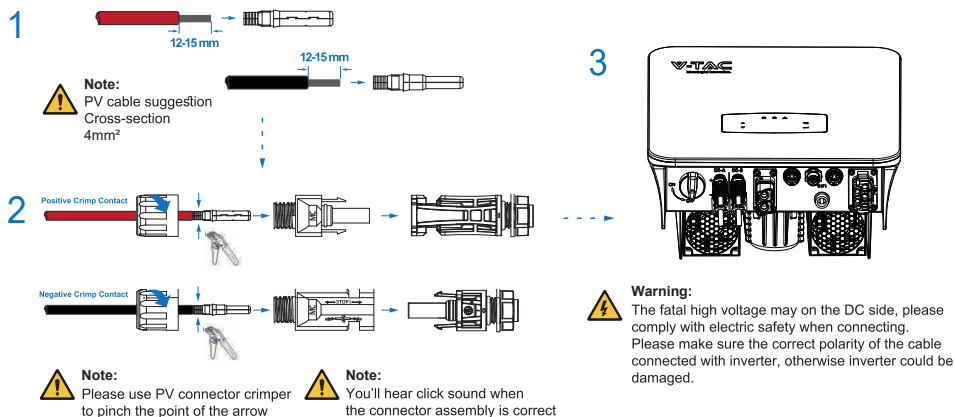
MULTI-LANGUAGE MANUAL QR CODE

Please scan the QR code to access the manual in multiple languages.

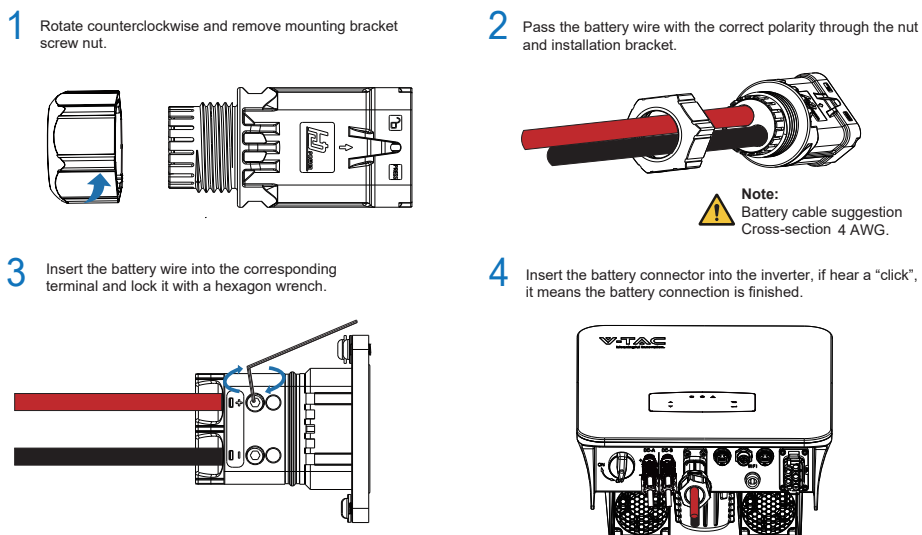
MOUNTING

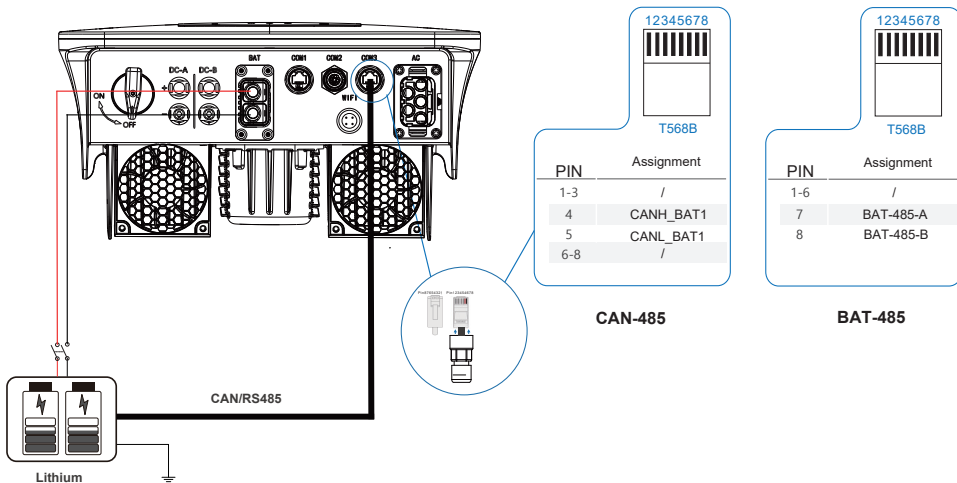


PV CONNECTION

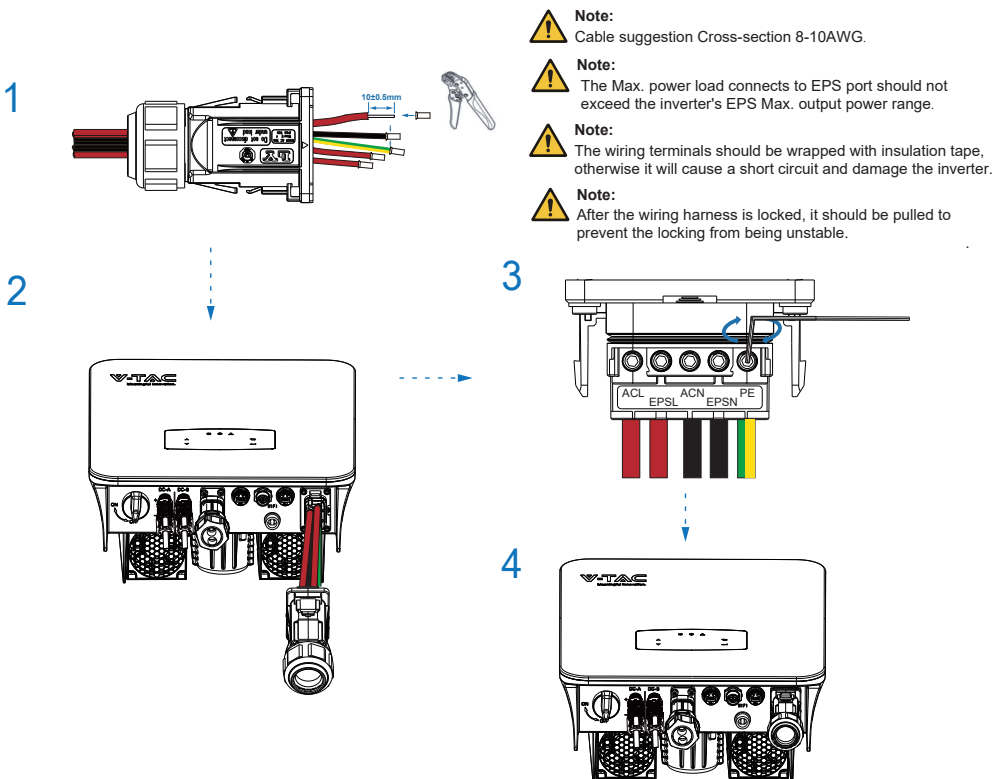


BATTERY CONNECTION

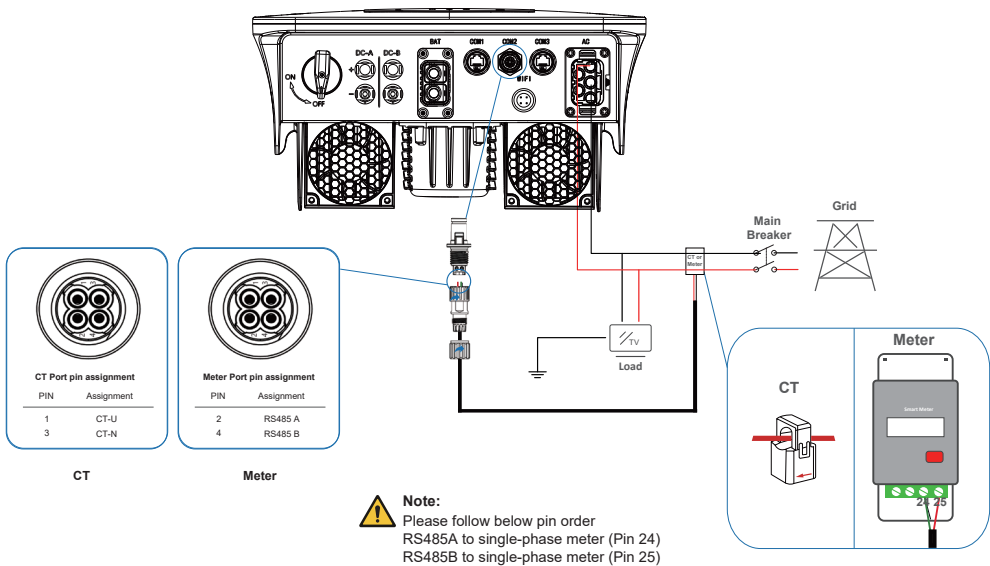




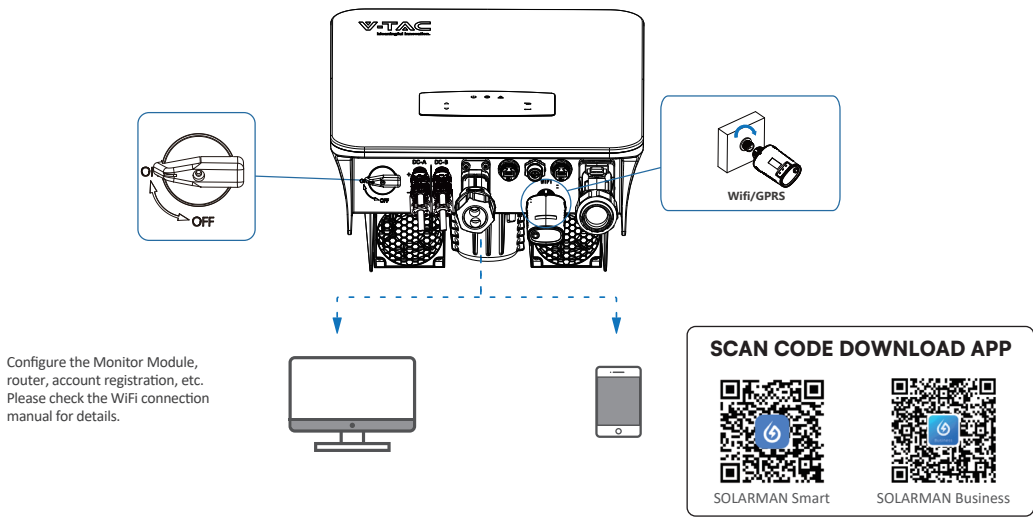
GRID AND EPS CONNETION



CT OR METER CONNETION



WIFI CONNECTION



INSTRUCTION MANUAL

WIFI MODULE FOR SOLAR INVERTER



INTRODUCTION

Thank you for selecting and buying V-TAC Product. V-TAC will serve you the best. Please read these instructions carefully & keep this user manual handy for future reference. If you have any another query, please contact our dealer or local vendor from whom you have purchased the product. They are trained and ready to serve you at the best.



User Manual QR CODE

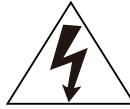
Please scan the QR code to access the manual in multiple languages.

WARNING

1. Please make sure to turn off the power before starting the installation.
2. Installation must be performed by a qualified electrician.



This marking indicates that this product should not be disposed of with other household wastes.



Caution, risk of electric shock.



NOTICE:

Please read this manual carefully before using products and keep it in the place where O&M providers can easily find.

Due to product upgrade and other factors, the content of this manual might change from time to time. Please take actual product as standard and get latest manual from www.vtacexports.com or sales. Unless otherwise agreed herein, this manual will only be used as guidance. Any statement, information or suggestion in this manual will not take any form of responsibility.

Without written permission, any content of this document (partly or entirely) cannot be extracted, copied or transmitted in any form by any company or individual.

DOWNLOAD APP



SOLARMAN Smart
Energy Assistant Around you



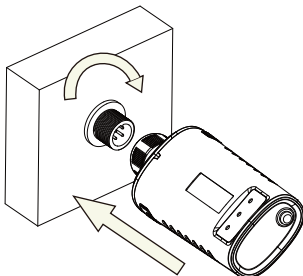
SOLARMAN Business
One-Stop O&M, After Service
Management Software

IOS: Search "Solarman Smart" or "Solarman Business" in Apple Store.
Android: Search "Solarman Smart" or "Solarman Business" in Google Play.

1. WIFI MODULE INSTALLATION

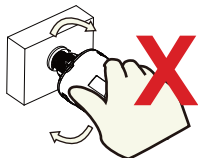
Type 1

Step1: Assemble WIFI Module to the inverter communication interface as shown in the diagram.



Warning:

Please do not hold the WIFI Module body to rotate while install or remove the Module.



2. WIFI MODULE STATUS

Check Indicator light

Lights	Implication	Status Description(All lights are single green lights.)
 NET	Communication with router	1.Light off: Connection to the router failed. 2.On 1s/Off 1s(Slow flash): Connection to the router succeeded. 3.Light keeps on: Connection to the server succeeded. 4.On 100ms/Off 100ms(Fast flash): Distributing network fast.
 COM	Communication with inverter	1.Light keeps on: WIFI Module connected to the inverter. 2.Light off: Connection to the inverter failed. 3.On 1s/Off 1s(Slow flash): Communicating with inverter.
 READY	WIFI Module running status	1.Light off: Running abnormally. 2.On 1s/Off 1s (Slow flash): Running normally. 3.On 100ms/Off 100ms(Fast flash): Restore factory settings.

The normal operation status of the WIFI Module, when router connected to the network normally:

- 1.Connection to the server succeeded: NET light keeps on after the WIFI Module powered on.
- 2.WIFI Module running normally: READY light flashes.
- 3.Connection to the inverter succeeded: COM light keeps on.

ABNORMAL STATE PROCESSING

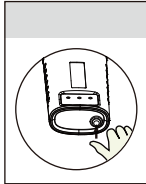
If the data on platform is abnormal when the WIFI Module is running, please check the table below and according to the status of indicator lights to complete a simple troubleshooting. If it still can not be resolved or indicator lights status do not show in the table below, please contact Customer Support.

(Note: Please using the following table query after power-on for 2mins at least.)

NET  NET	COM  COM	READY  READY	Fault Description	Fault Cause	Solution
Any state	OFF	Slow flash	Communication with inverter abnormal	1.Connection between WIFI Module and inverter loosen. 2.Inverter does not match with WIFI Module's communication rate.	1.Check the connection between WIFI Module and inverter. Remove the WIFI Module and install again. 2.Check inverter's communication rate to see if it matches with WIFI Module's. 3.Long press Reset button for 5s, reboot WIFI Module.
OFF	ON	Slow flash	Connection between logger and router abnormal	1.WIFI Module does not have a network. 2.Antenna abnormal 3.Router WiFi signal strength weak.	1.Check if the wireless network configured. 2.Check the antenna, if there is any damage or loose. 3.Enhance router WiFi signal strength. 4.Long press Reset button for 10s, reboot WIFI Module and networking again.
Slow flash	ON	Slow flash	Connection between WIFI Module and router normal, connection between logger and remote server abnormal.	1.Router networking abnormal. 2.The server point WIFI of Module is modified. 3.Network limitation, server cannot be connected.	1.Check if the router has access to the network. 2.Check the router's setting, if the connection is limited. 3.Contact our customer service.
OFF	OFF	OFF	Power supply abnormal	1.Connection between WIFI Module & inverter loosen or abnormal. 2.Inverter power - insufficient. 3.WIFI Module - abnormal.	1.Check the connection, remove the WIFI Module and install again. 2.Check inverter output power. 3.Contact our customer service.
Fast flash	Any state	Any state	SMARTLINK networking status	Normal	1.Exit automatically after 5mins. 2.Long press Reset button for 5s, reboot WIFI Module. 3.Long press Reset button for 10s, restore factory settings.
Any state	Any state	Fast flash	Restore factory settings	Normal	1.Exit automatically after 1mins. 2.Long press Reset button for 5s, reboot WIFI Module. 3.Long press Reset button for 10s, restore factory settings.

USAGE METHODS AND NOTICES FOR RESET BUTTON

Usage methods and key-press descriptions for Reset button



Key-press	Status Description	Light Status
Short press 1s	SMARTLINK rapid networking status.	NET light flashes fast for 100ms.
Long press 5s	Rebooting the WIFI Module.	All lights are extinguished immediately.
Long press 10s	Resetting theWIFI Module.	1.All lights are extinguished after 4s. 2.READY light flashes fast for 100ms.

NOTICES FOR RESET BUTTON



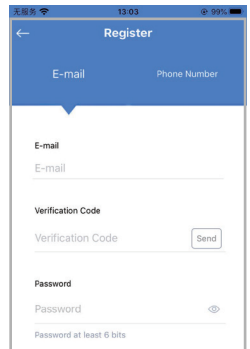
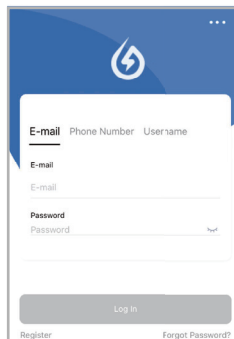
Notice:
Do not remove waterproof plug.



USER MANUAL FOR SOLARMAN SMART APP

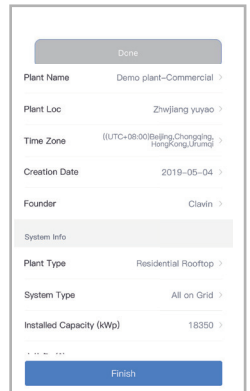
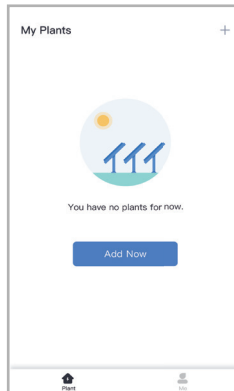
1.Registration

Go to VTAC Smart HOME and register.
Click "Register" and create your account here.



2.Create a Plant

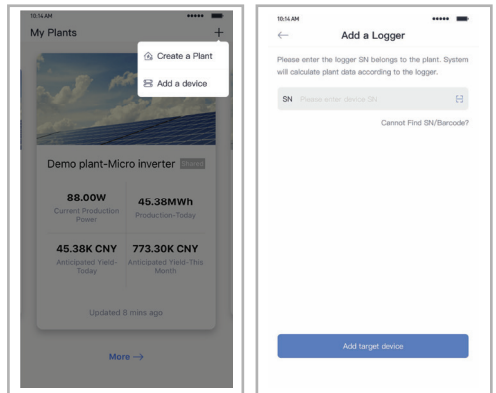
Click "Add Now" to create your plant.
Please fill in plant basic info and other info here.



3.Add a Logger

Method 1: Enter logger SN manually.

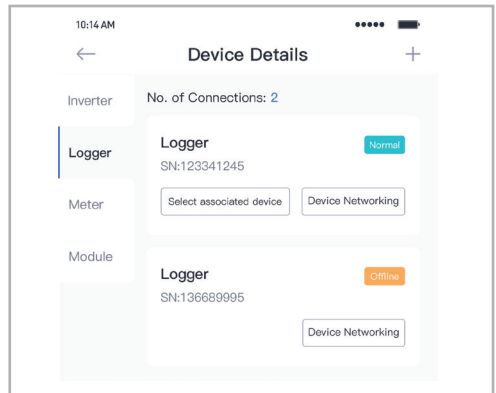
Method 2: Click the icon in the right and scan to enter logger SN
You can find logger SN in the external packaging or on the logger body.



4.Network Configuration

After the logger is added, please configure the network to ensure normal operation.

Go to "Plant Details"->"Device List", find the target SN and click "Networking".

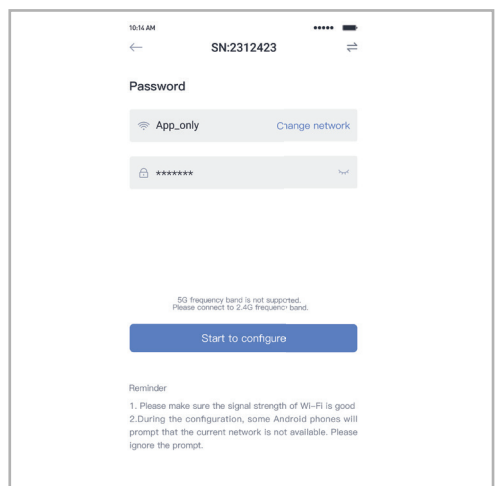


Step 1: Confirm Wi-Fi Info

Please make sure your phone has connected to the right WiFi network. And click "Start".

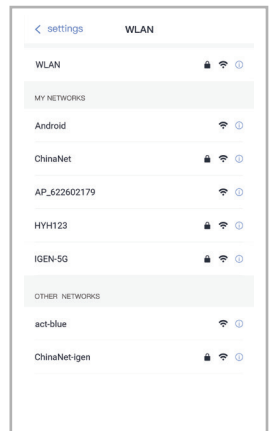
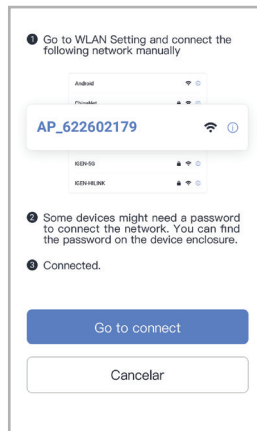
Notice:

5G WiFi is not supported .



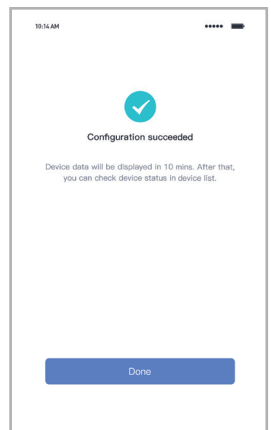
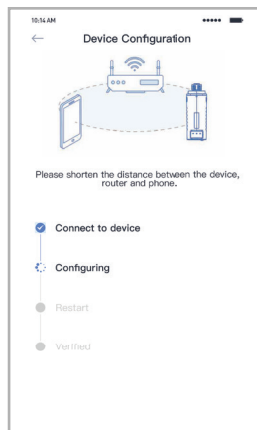
Step 2: Connect to AP network
Click "Go to connect" and find the right "AP_XXXXX" network (XXXXXX Refers to logger SN).

If the password is required, you can find the password on the logger body. Go back to VTAC Smart HOME APP, after connecting to AP network.



Step 3: Auto Configuration
Please wait for a while to complete the configuration. Then system will switch to the following page.

Click "Done" to check plant data. (Usually, the data will be updated in 10 mins)



If configuration failure occurs, please check the following reason and try it again.

- (1) Make sure WLAN is ON.
- (2) Make sure WiFi is normal.
- (3) Make sure wireless router does not implement the white-black list.
- (4) Remove the special characters in Wi-Fi network.
- (5) Shorten the distance between the phone and device.
- (6) Try to connect to other Wi-Fi.

Warning:

Please make sure the WIFI Module is working properly before you leave the site. If there is anything abnormal, please do not leave the site and contact customer service: support@v-tac.eu.