



Meaningful Innovation.

WEEE Number: 80133970

INSTRUCTION MANUAL HYBRID SOLAR INVERTER

MODEL	VT-6607136
SKU	11576

PV INPUT PARAMETER	
Mppt Input Voltage	550V
Vmax PV	550V
Max. Input Current	18.5x2A
Isc PV	26x2A

AC INOUT/OUTOUT PARAMETER	
Rated Apparent Power	3.6kVA
Rated Current	16.4/15.7A
Rated Voltage	198 to 242@220/207 to 253@230V
Rated Frequency	50/60Hz
Power Factor Range	1 (-0.8~+0.8 adjustable)

BATTERY PARAMETER	
Storage type:	Li-ion / Lead-acid etc.
Battery input voltage:	40V-60V
Cut Off Voltage:	39.5V
Max. charging Voltage:	60V
Max. Protective Voltage:	62V
Max. continuous charging Current:	80A
Max. Discharging Current:	80A



SYSTEM	
Protective Class:	Class I
Type of Isolation:	Transformerless
Ingress Protection:	IP65
Over Voltage Category:	II
Dimension(W*D*H):	513*370*192mm
Weight:	17kg
Max.Efficiency:	97.6%

05 YEARS
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 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. The warranty is valid for 5 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.

IN CASE OF ANY QUERY/ISSUE WITH THE PRODUCT, PLEASE REACH OUT TO US AT: SUPPORT@V-TAC.EU FOR MORE PRODUCTS RANGE, INQUIRY PLEASE CONTACT OUR DISTRIBUTOR OR NEAREST DEALERS. V-TAC EUROPE LTD. BULGARIA, PLOVDIV 4000, BUL.L.KARAVELOW 9B

WARNING

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










SAFETY PRECAUTIONS

1. All work on the inverter must be carried out by qualified electricians.
2. The PV panels and inverter must be connected to the ground.
3. Do not touch the inverter cover until 5 minutes after disconnecting both DC and AC power supply.
4. Do not touch the inverter enclosure when operating, keep away from materials that may be affected by high temperatures.
5. Please ensure that the used device and any relevant accessories are disposed of in accordance with applicable regulations.
6. VTAC inverter 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.
7. 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.

EXPLANATION OF SYMBOL

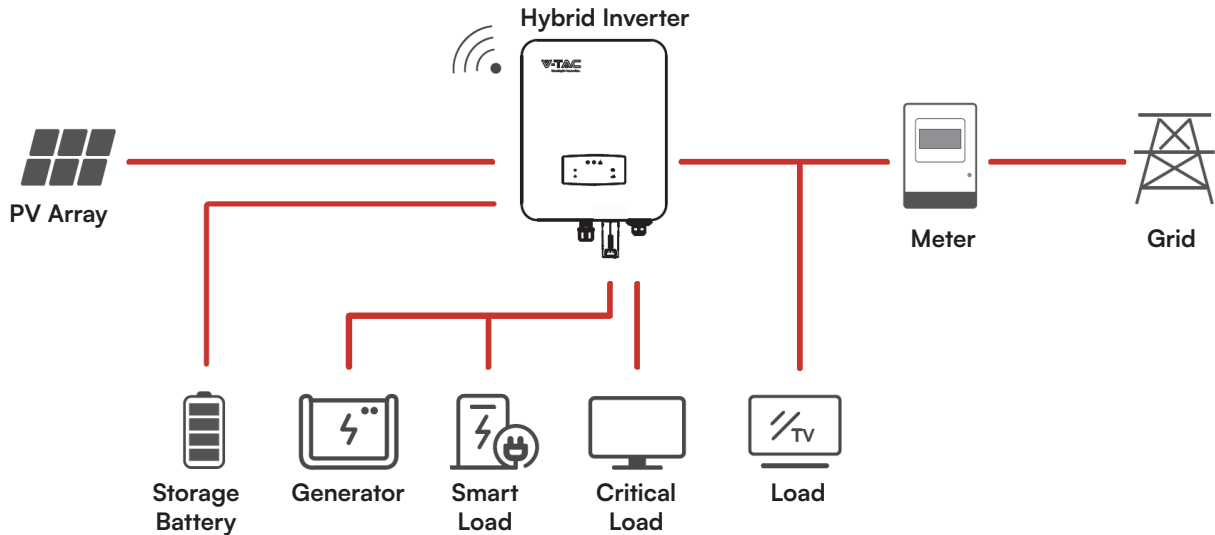
VTAC inverter strictly comply with relevant safety standards. Please read and follow all the instructions and cautions during installation, operation and maintenance.

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.
	Refer to manual before service.
	CE mark The inverter complies with the requirements of the applicable CE guidelines.

INTRODUCTION

Basic Instruction

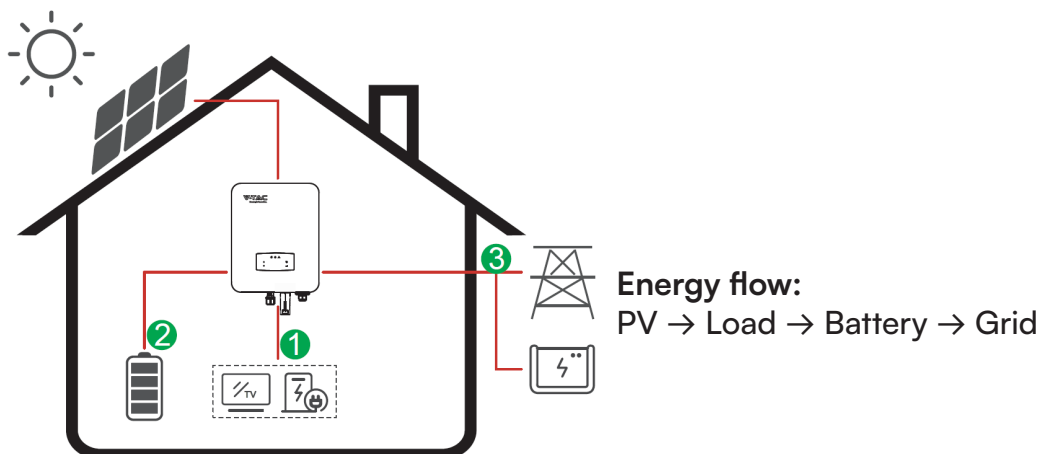
The VTAC hybrid inverters are designed to increase energy independence for homeowners. Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from the public grid and optimize self-consumption.



OPERATION MODES

Self-Use

The Self-Use 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.



Note: Advance Setting

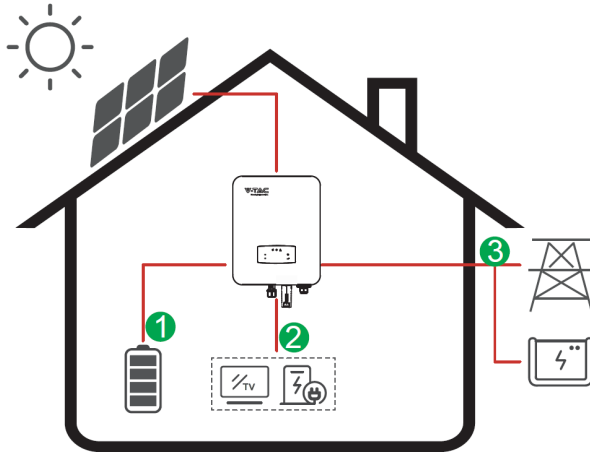
When select 0 W under P_Feed menu, the inverter will export zero energy to the grid.

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

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

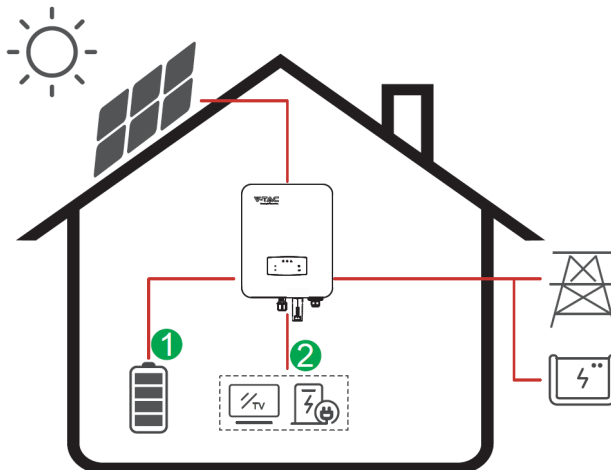


4 periods of time charge setting.

Energy flow:

PV → Battery → Load → Grid

AC Charge Mode



4 periods of time charge setting.

Energy flow:

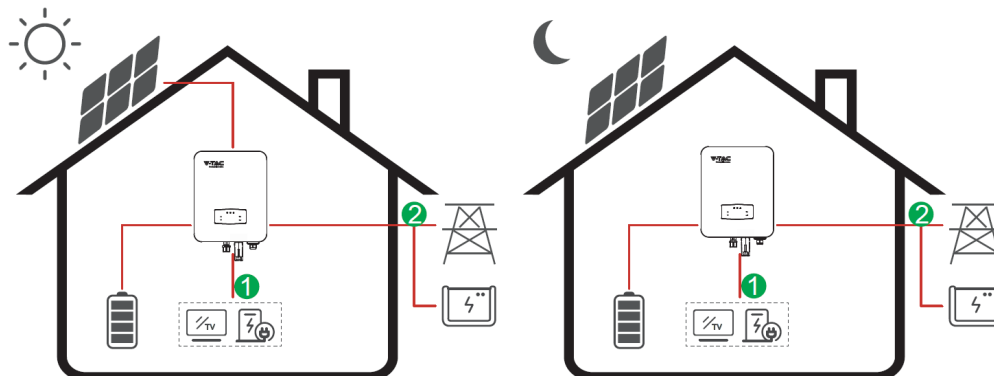
PV and Grid → Battery → Load

 **Note:**

After select AC charge, when PV have no sufficient power, AC will also charge the battery.

B. Discharge

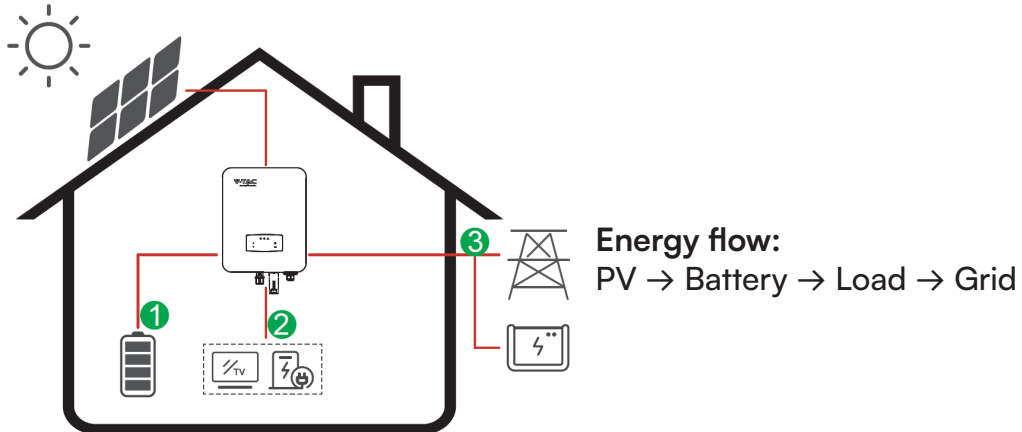
4 periods of time discharge setting



Energy flow: Battery and PV → Load → Grid

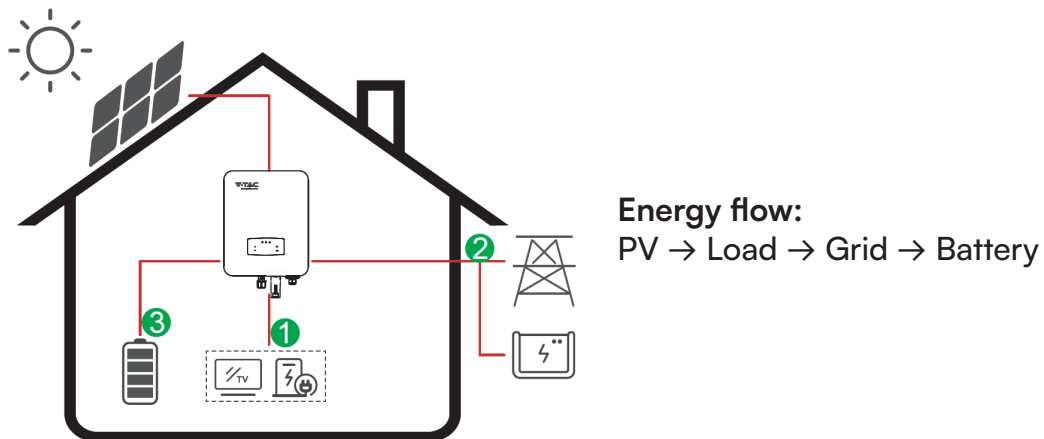
C. Forbidden Discharge

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



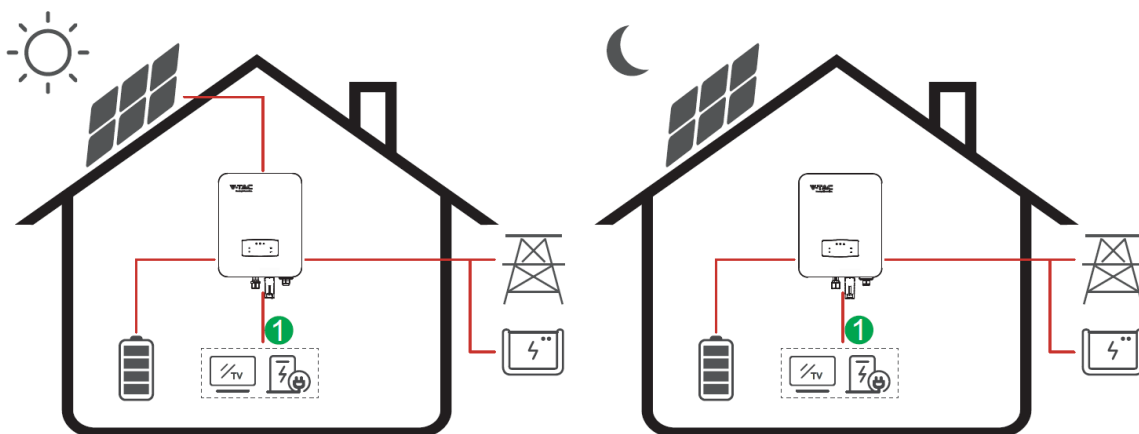
Selling First

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



Back-Up

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



Energy flow: PV and Battery → Load

INSTALLATION

Pre-installation

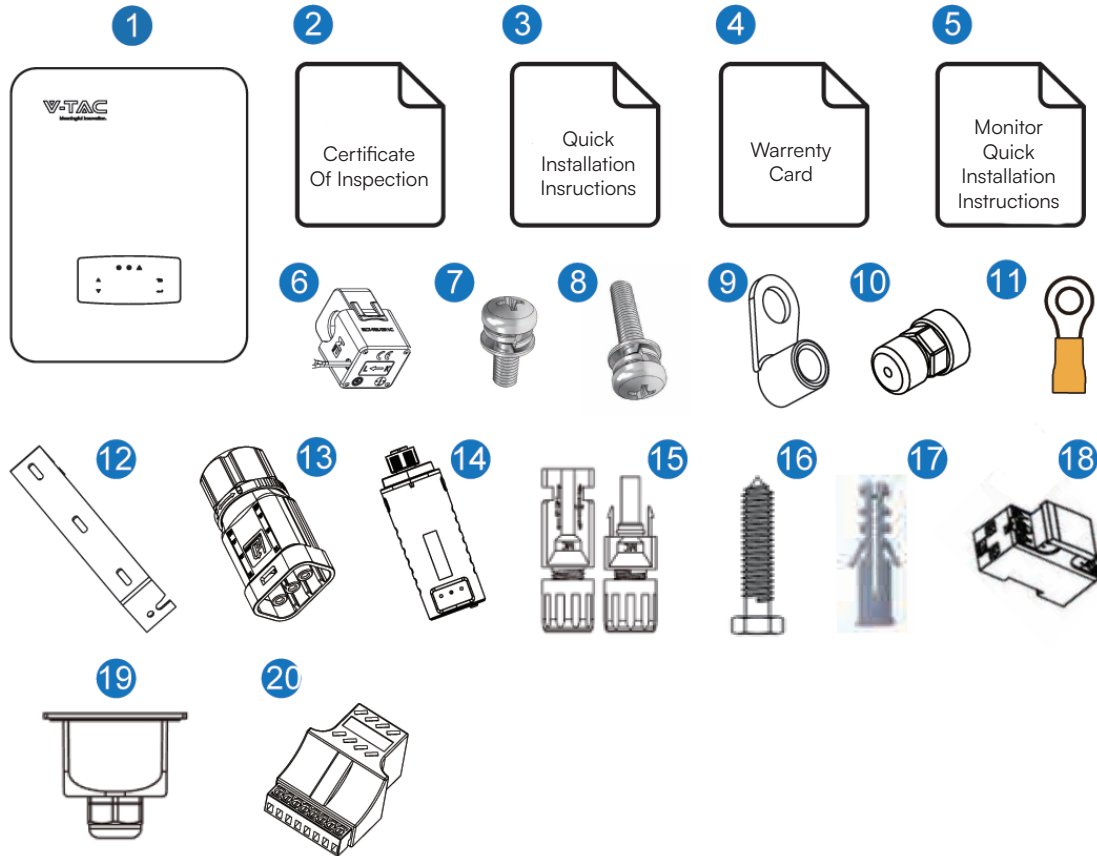
Unpacking & Package List

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.

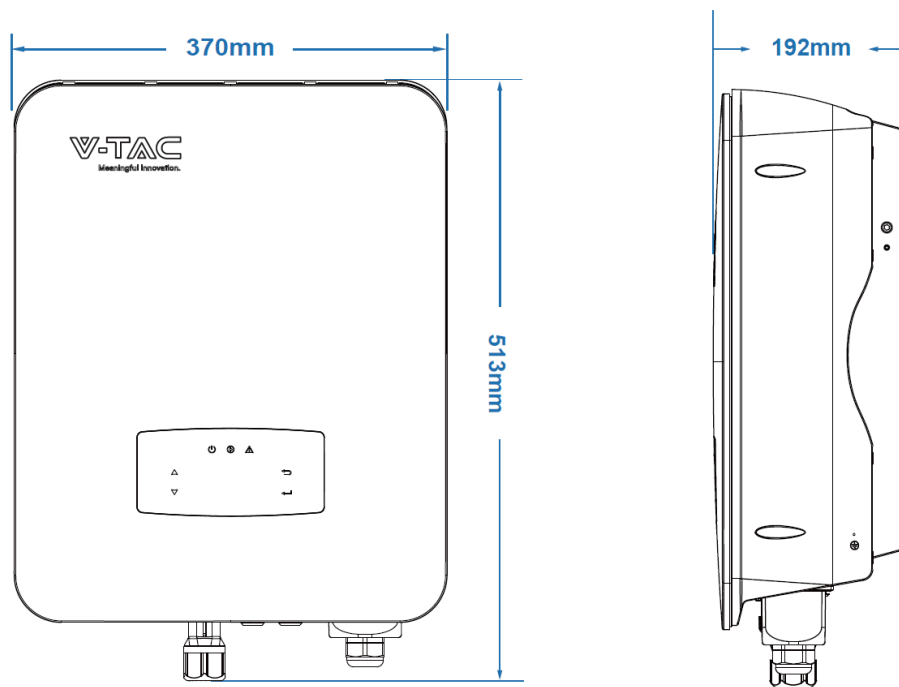
Package List

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

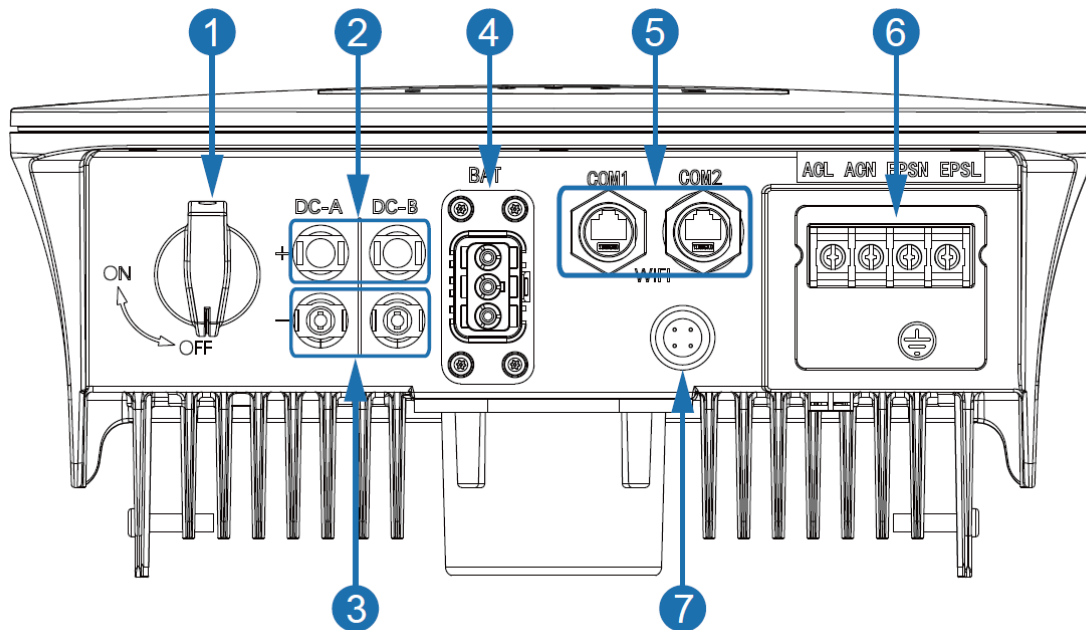


No.	Qty	Items	No.	Qty	Items
1	1	Hybrid Inverter	11	1	Grounding Terminal
2	1	Certificate Of Inspection	12	1	Wall Mounting Bracket
3	1	Quick Installation Instructions	13	1	Battery Connector
4	1	Warranty Card	14	1	Monitor Module
5	1	Monitoring Quick Installation Instructions	15	2	DC Connector
6	1	CT	16	3	Mounting Bracket Screw
7	4	AC Wiring Cover Screw	17	3	Plastic Expansion Tube
8	1	Security Screw	18	1	Smart Meter (Optional)
9	4	AC Wiring Terminal	19	1	AC Waterproof Cover
10	2	Communication Connectors	20	1	Communication Adapter

Product Overview



Inverter Terminals

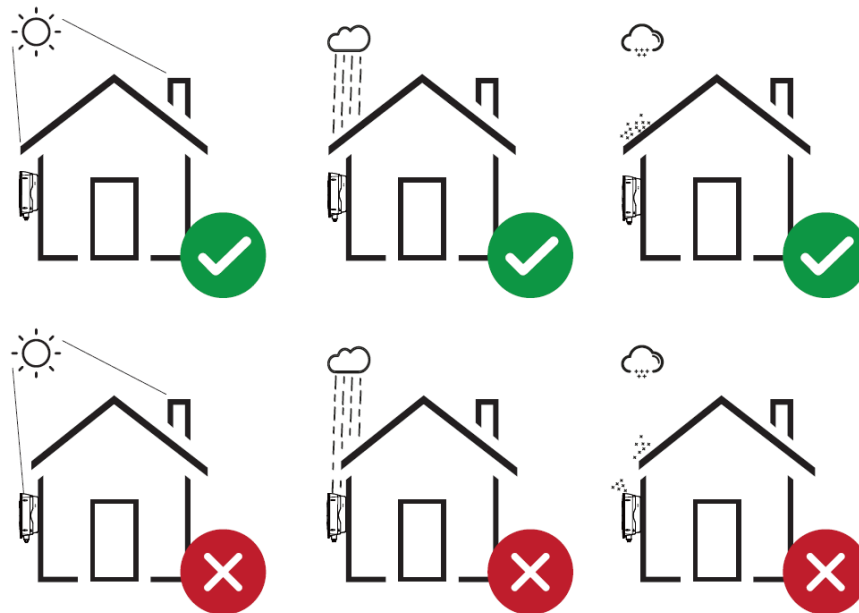


No.	Items	No.	Items
1	DC Switch	5	Communication Port
2	DC Connectors (+) For PV Strings	6	AC Port & EPS Port
3	DC Connectors (-) For PV Strings	7	Monitor Module Port
4	Battery Port		

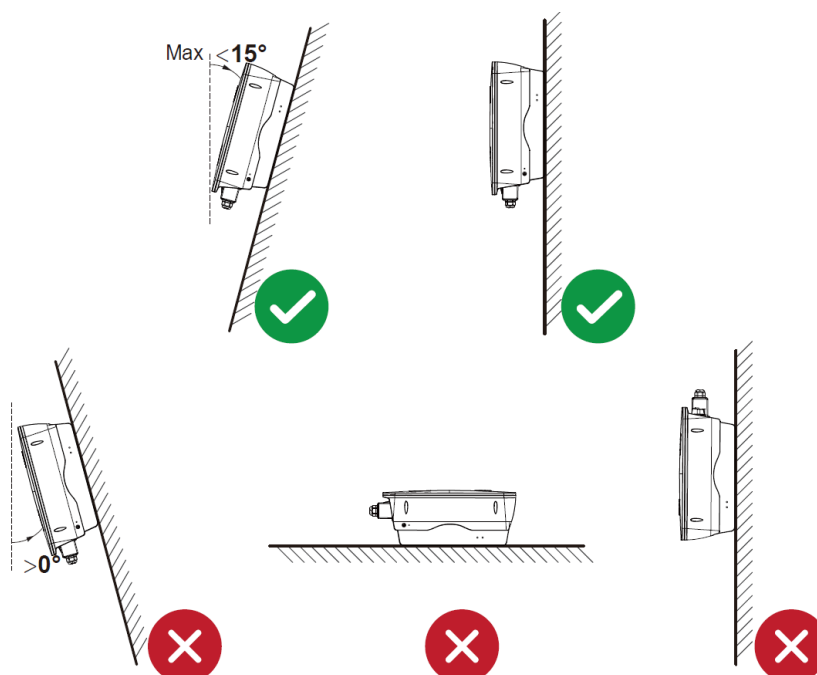
Mounting Location

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:

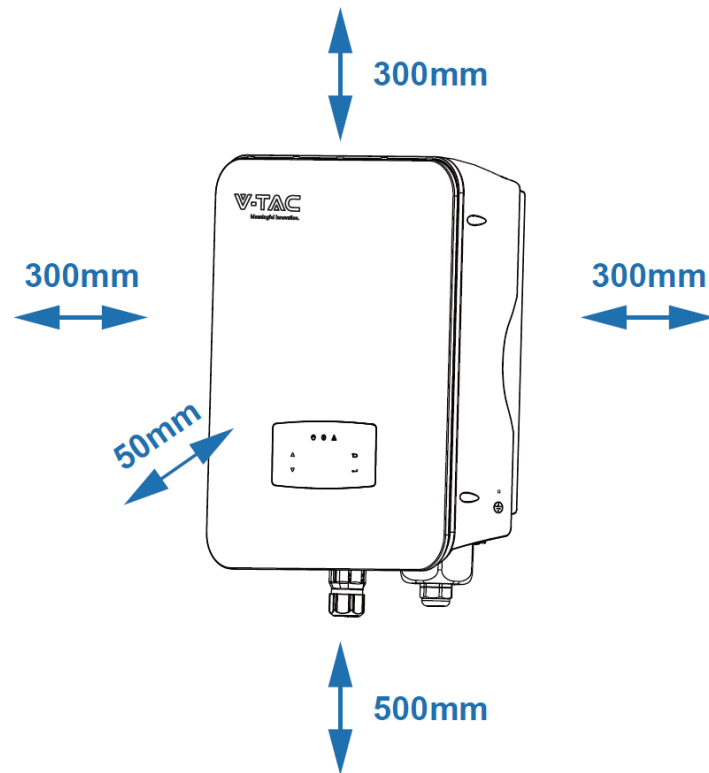
- The inverter should be installed on a solid surface, far from flammable or corrosion materials, where is suitable for inverter's weight and dimensions.
- The ambient temperature should be within $-25^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (between -13°F and 140°F).
- The installation of inverter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



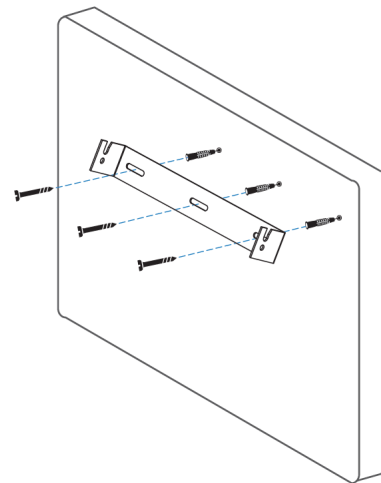
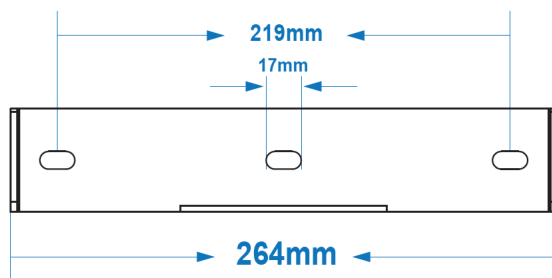
- The inverter should be installed vertically on the wall, or lean back on plane with a limited tilted angle. Please refer to below picture.



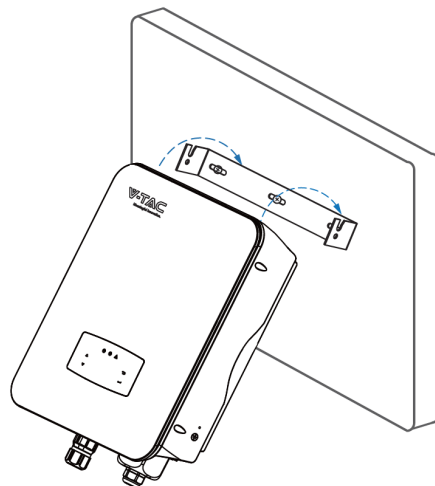
- Leave the enough space around inverter, easy for accessing to the inverter, connection points and maintenance.



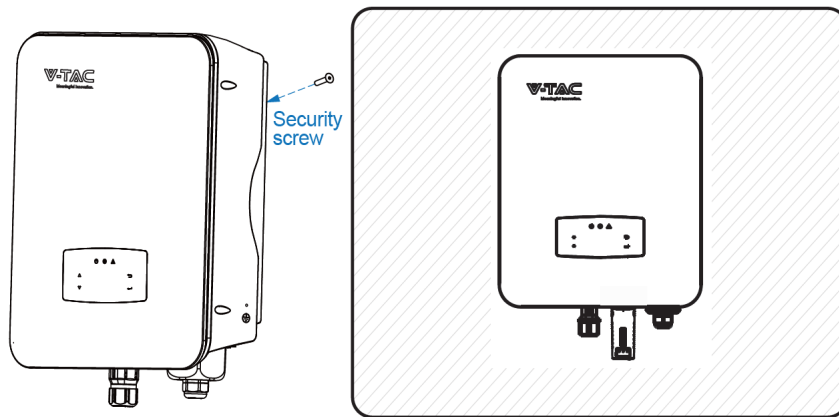
Mounting STEP 1



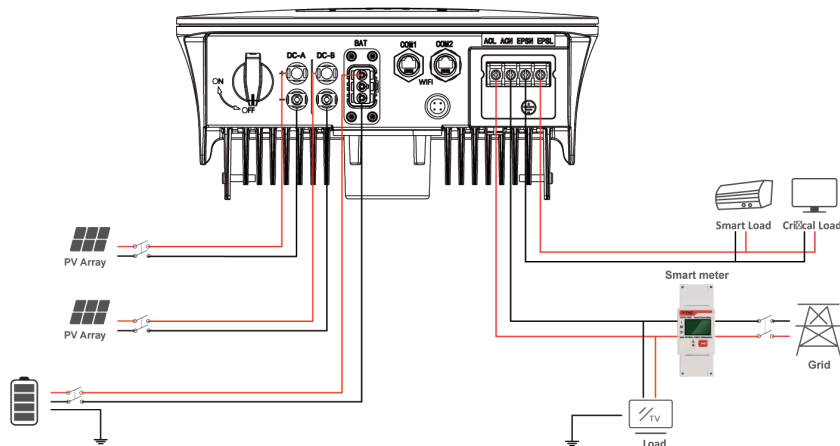
STEP 2



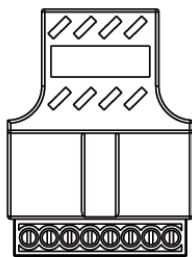
STEP 3



Electrical Connection



Communication Adapter pin assignment



12345678

No.	COM1	COM2
1	NTC+	Meter 485A
2	NTC-	Meter 485B
3	Dry Contact	BAT 485A
4	Dry Contact	BAT CANH
5	DRM	BAT CANL
6	DRM	BAT 485B
7	485A	CTU
8	485B	CTN

Note:

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

PV Connection

The hybrid inverter has two MPPT channels, can be connected with 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.

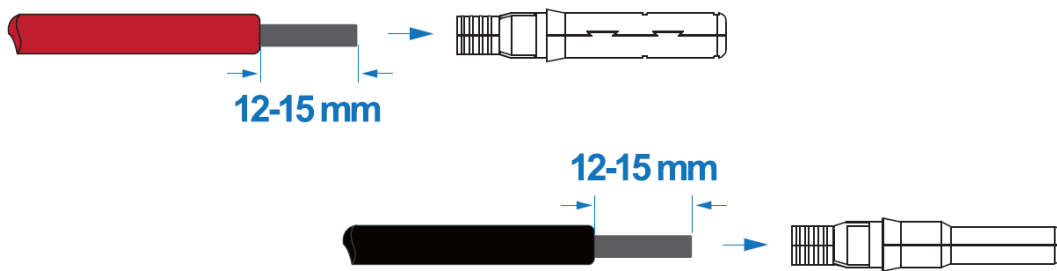


Warning:

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.

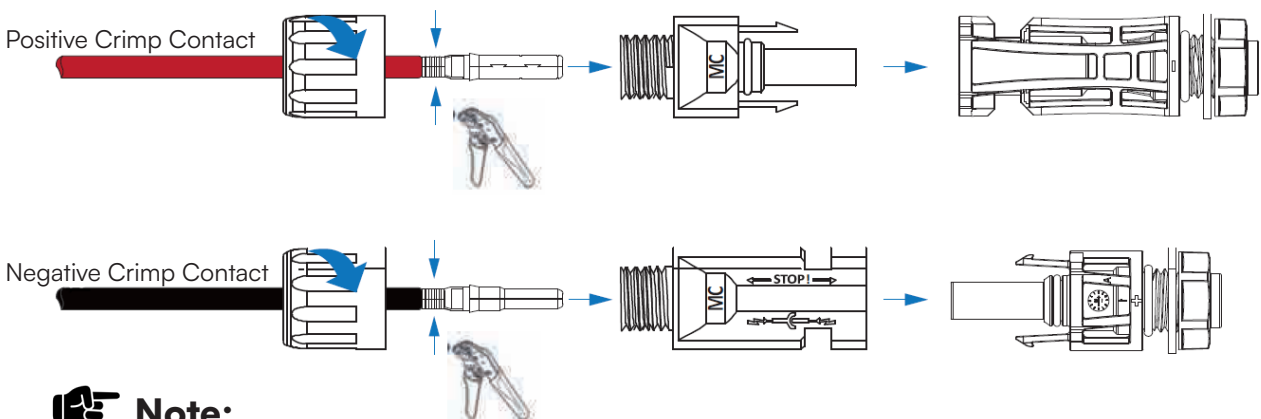
STEP 1



Note:

PV cable suggestion
Cross-section
4mm²

STEP 2



Note:

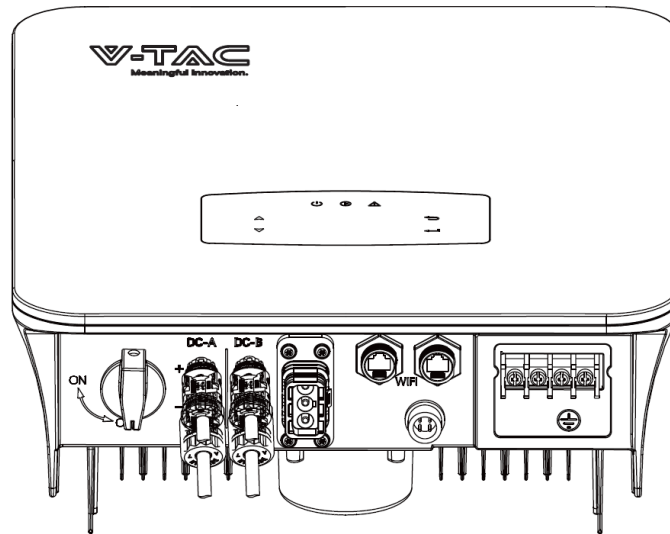
Please use PV connector crimper to pinch the point of the arrow.



Note:

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

STEP 3



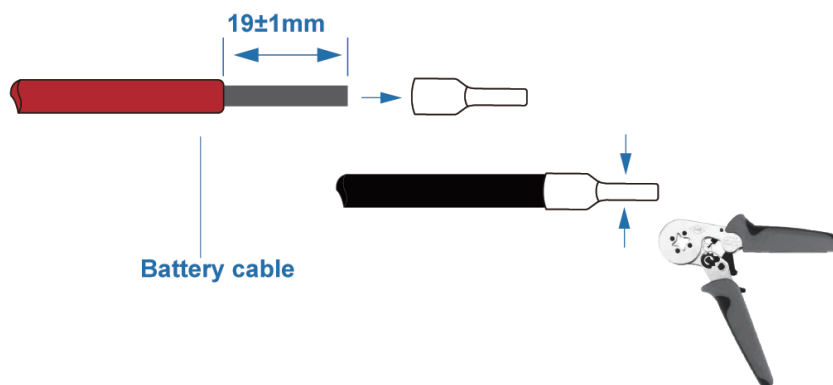
Battery Connection

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.

STEP 1

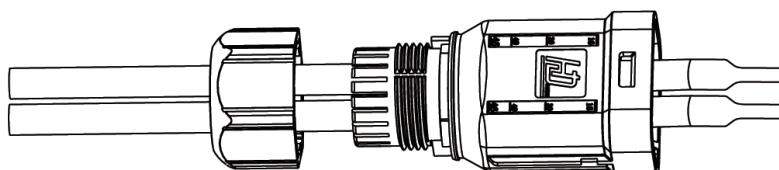


Note:

Battery cable suggestion Cross - section 8-10 AWG
Please make sure the battery polarities are correct.

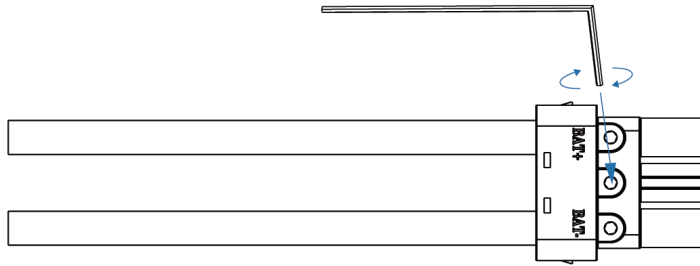
STEP 2

Pass the crimped battery harness through the waterproof connector and the cover.



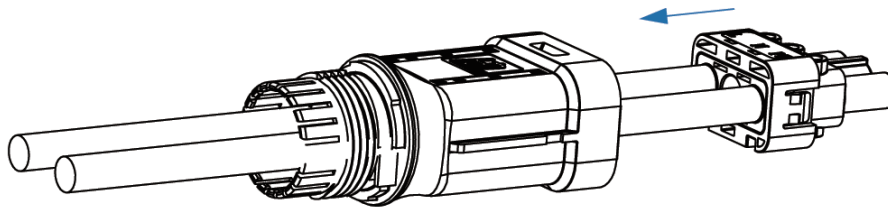
STEP 3

Insert the wire harness into the terminals according to “+” and “-” polarity, make the insulated terminals parallel with the terminals , the crimping screw torque is $2.0 \pm 0.1 \text{N.m}$



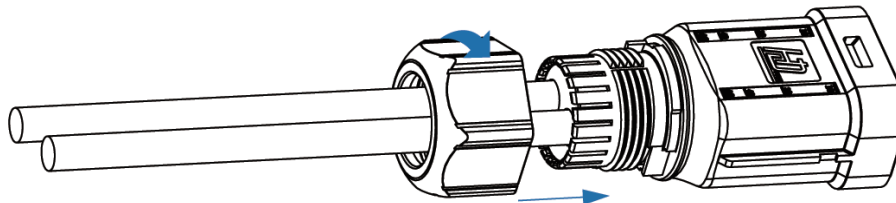
STEP 4

A “click” sound will be heard when the connector assembly is correct.



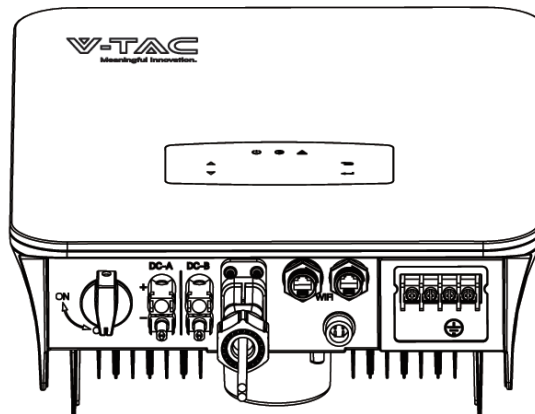
STEP 5

Use an open-end wrench to tighten the waterproof lock.

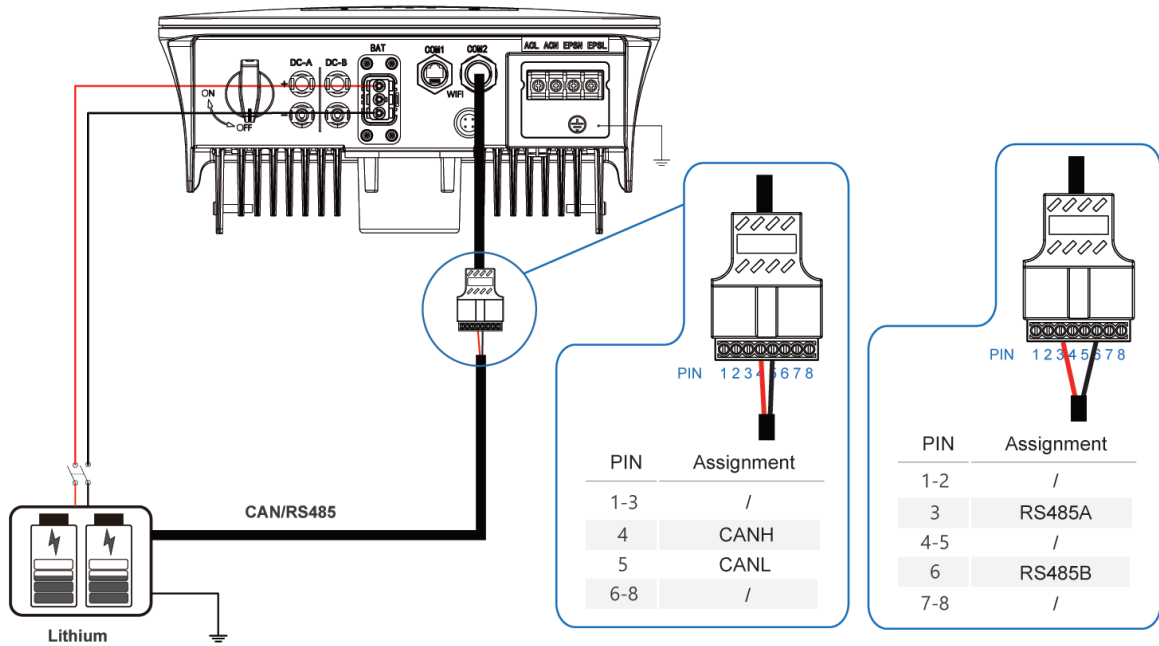


STEP 6

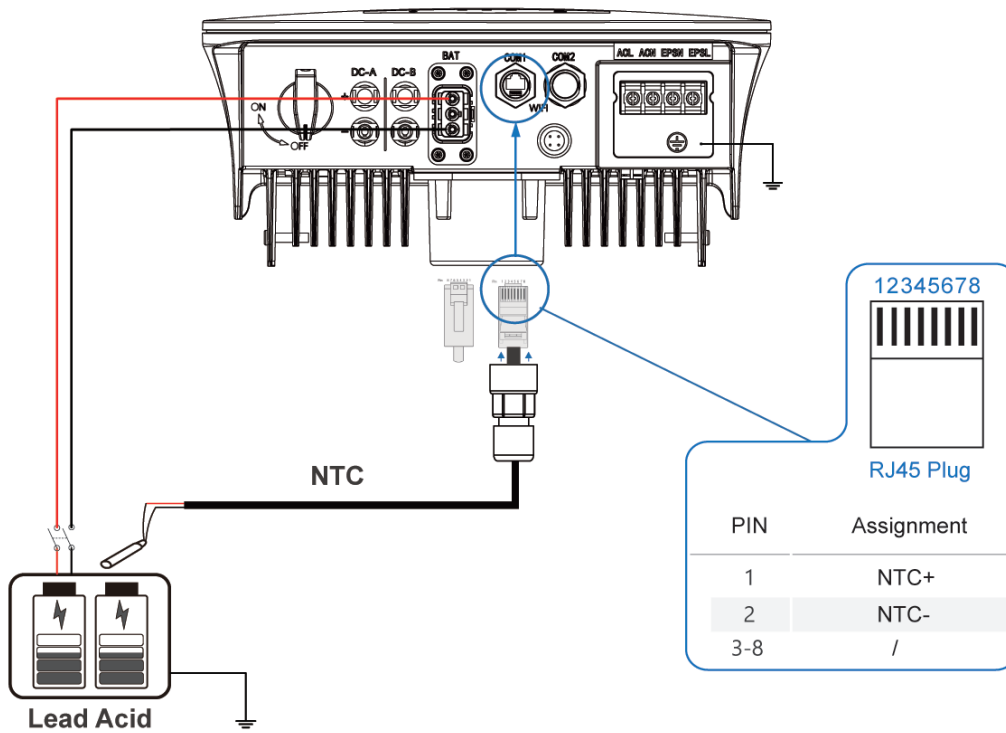
Insert the battery connector into the inverter, if hear a “click”, it means the battery connection is finished.



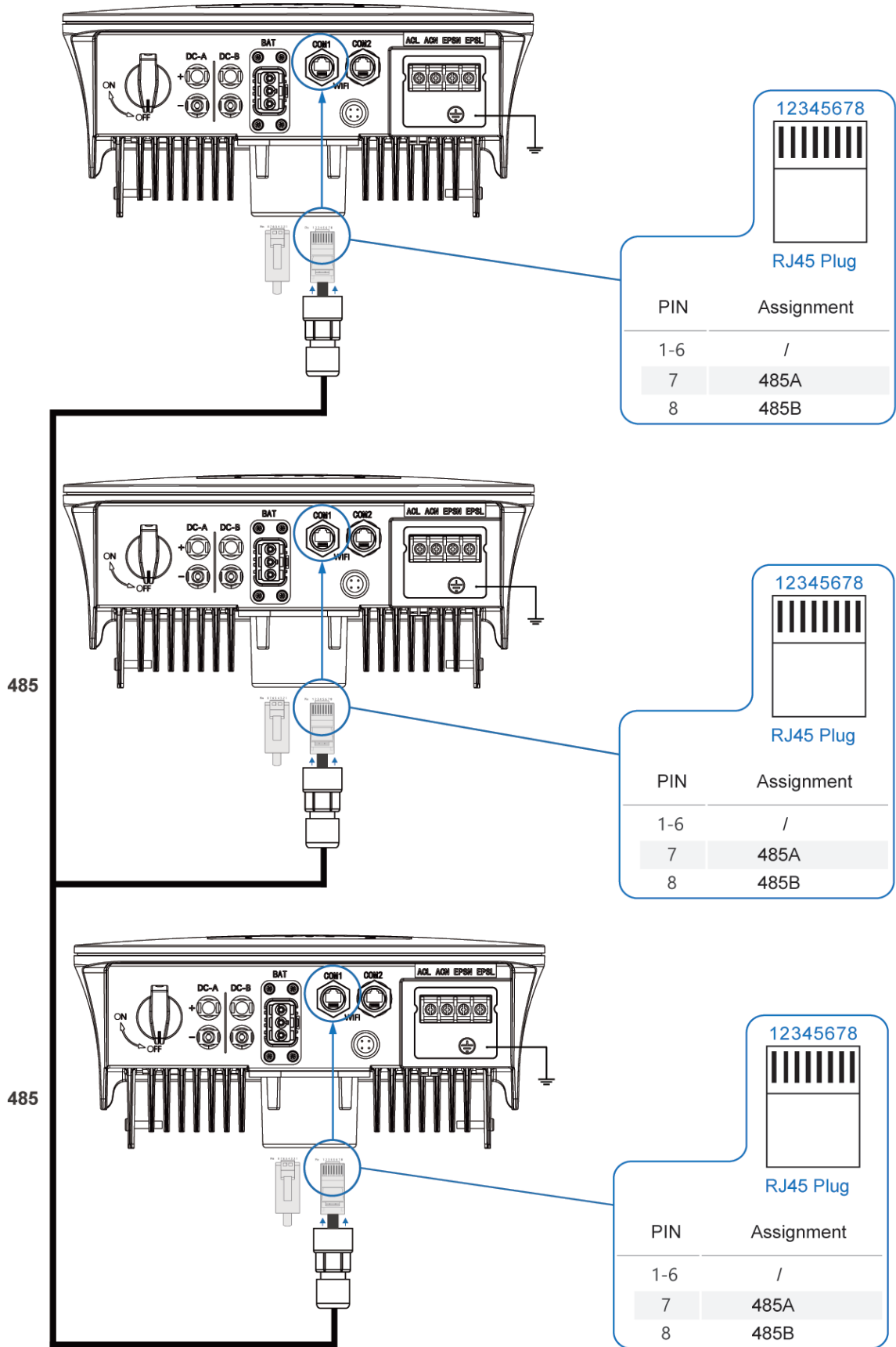
BAT-CAN/RS485



BAT-NTC



Multi Inverter Parallel



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:

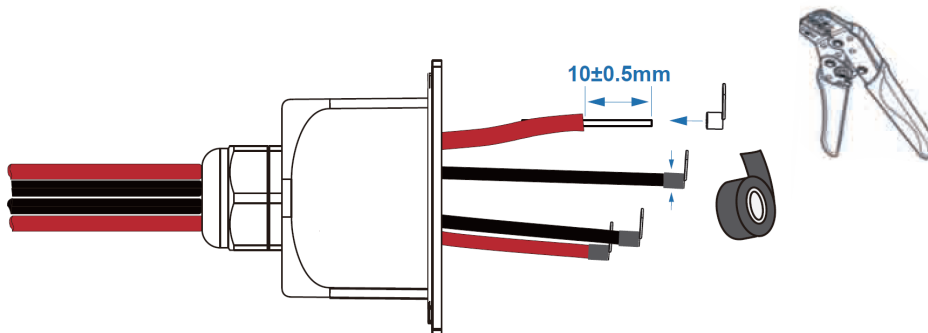
Qualified electrician will be required for the wiring.

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

Please follow steps for AC connection

- Connect DC protector or 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:

Cable suggestion
Cross-section 8-10AWG

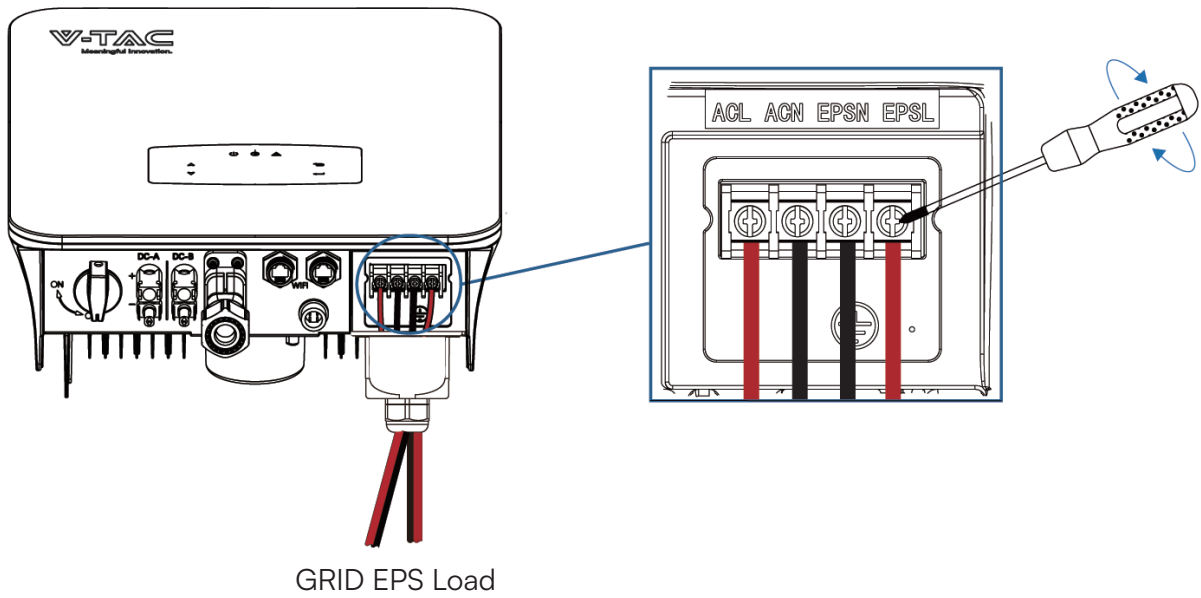
Note:

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

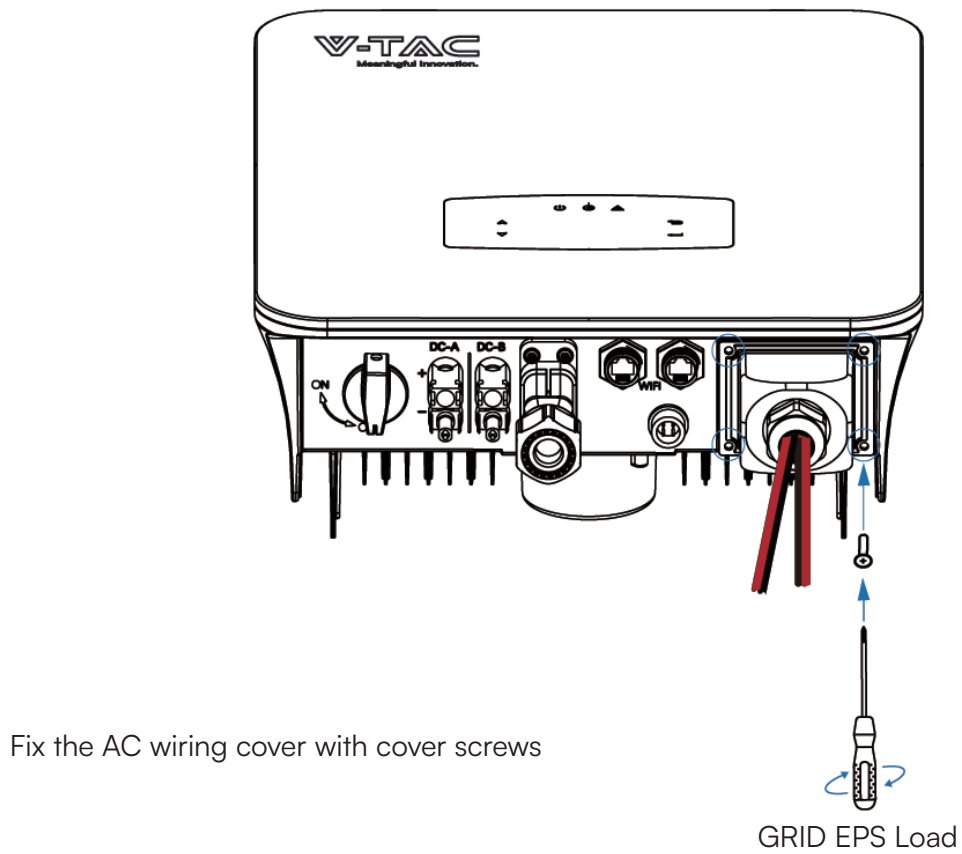
Note:

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

STEP 2

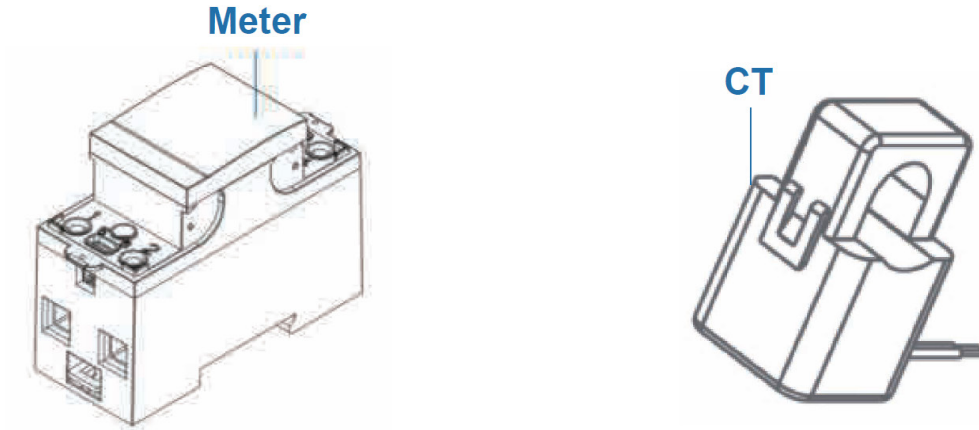


STEP 3

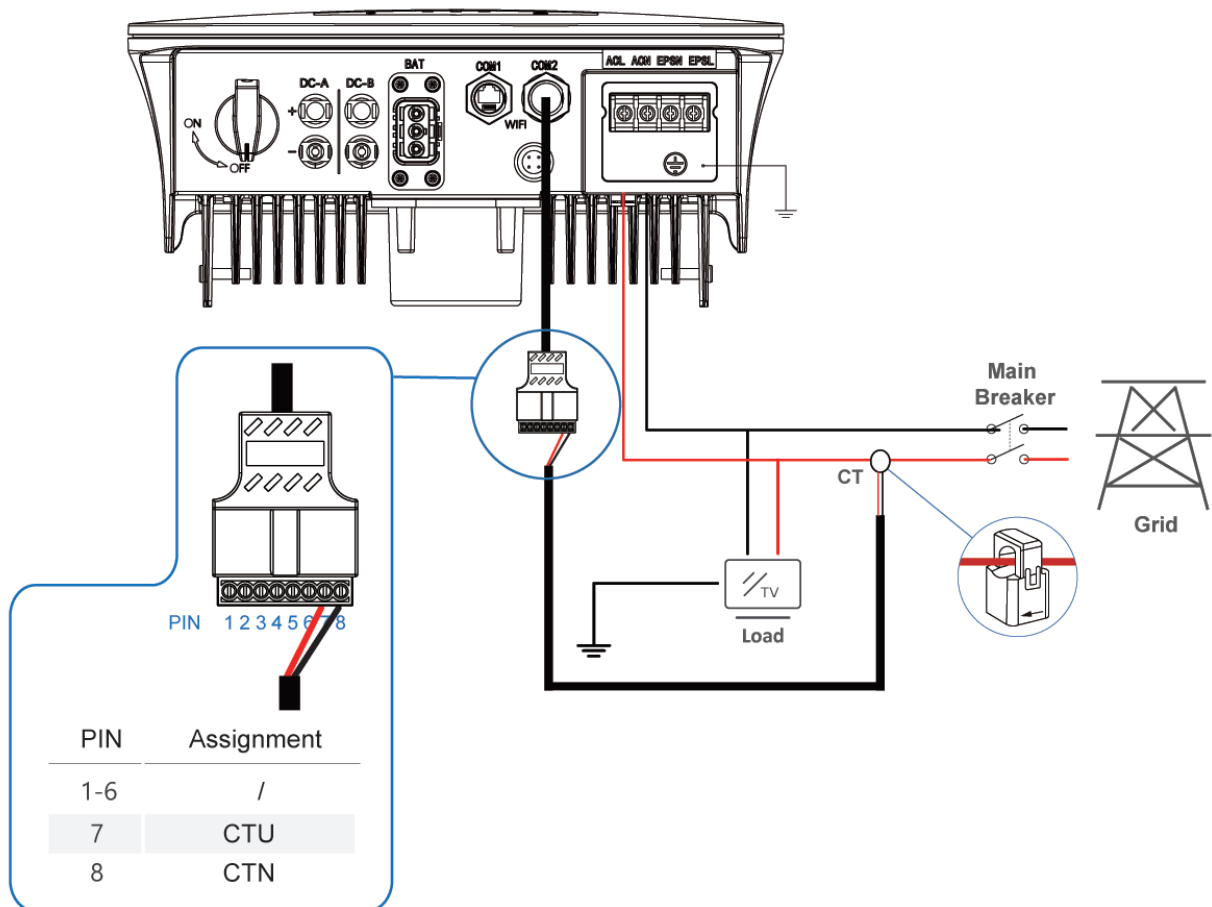


CT or Meter Connection

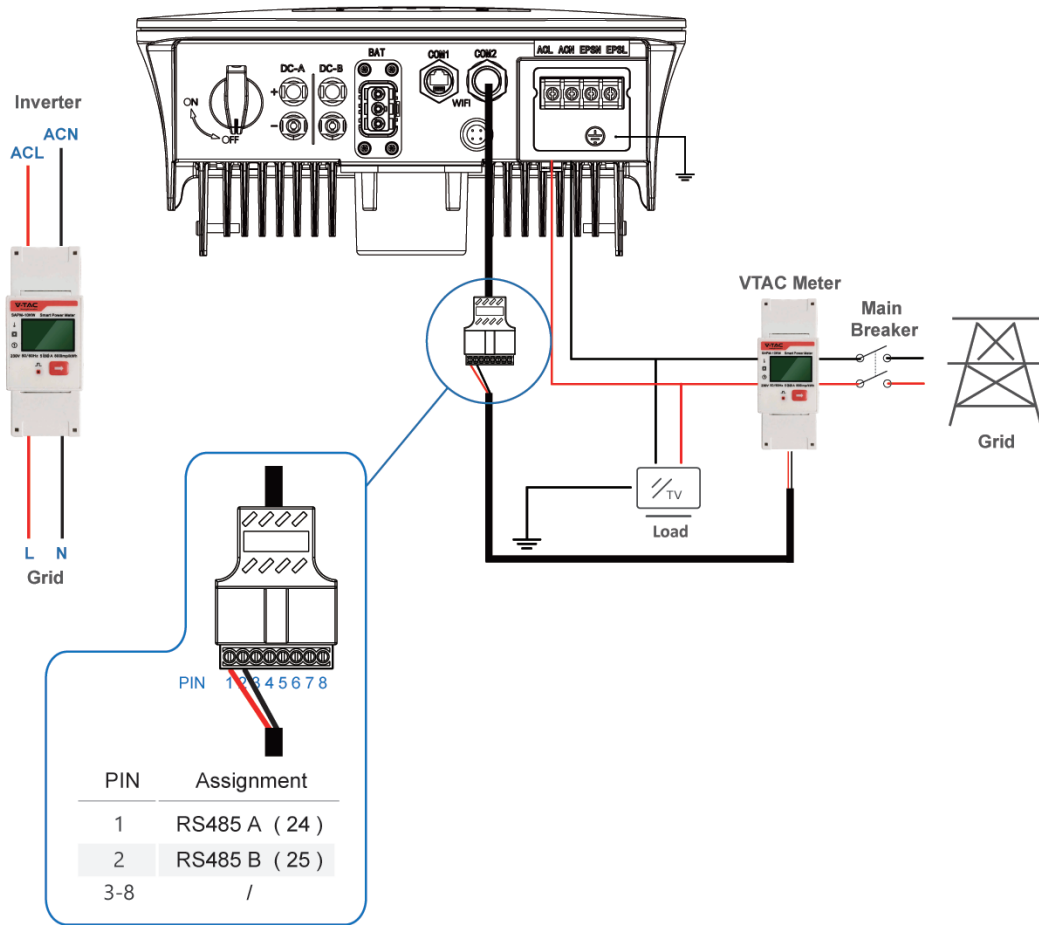
Meter and a current sensor (CT for short below) are used to detect current power direction of the local load and the grid. The output control function of the inverters will be activated based on the detected data.



Install the CT



Install the Meter



Communication Connection

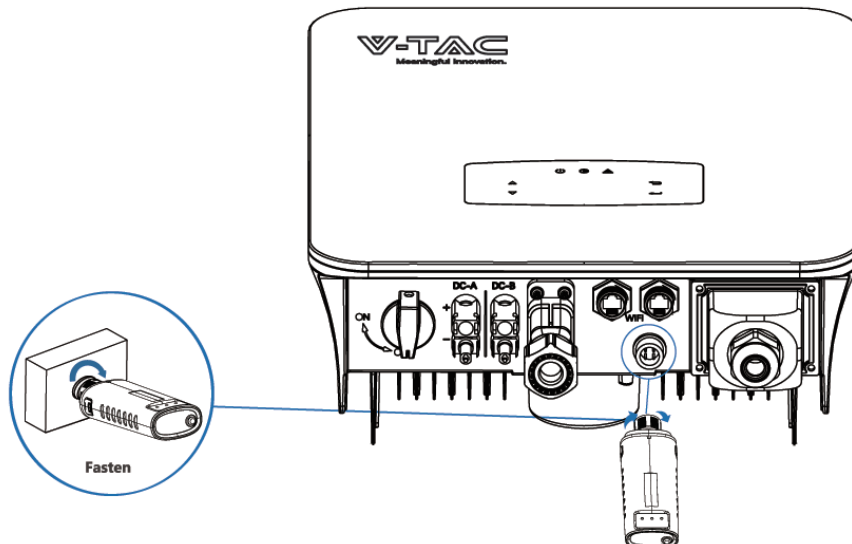
The monitoring module could transmit the data to the cloud server, and display the data on the PC, tablet and smart-phone.

Install the WIFI / Ethernet / GPRS / RS485 Communication

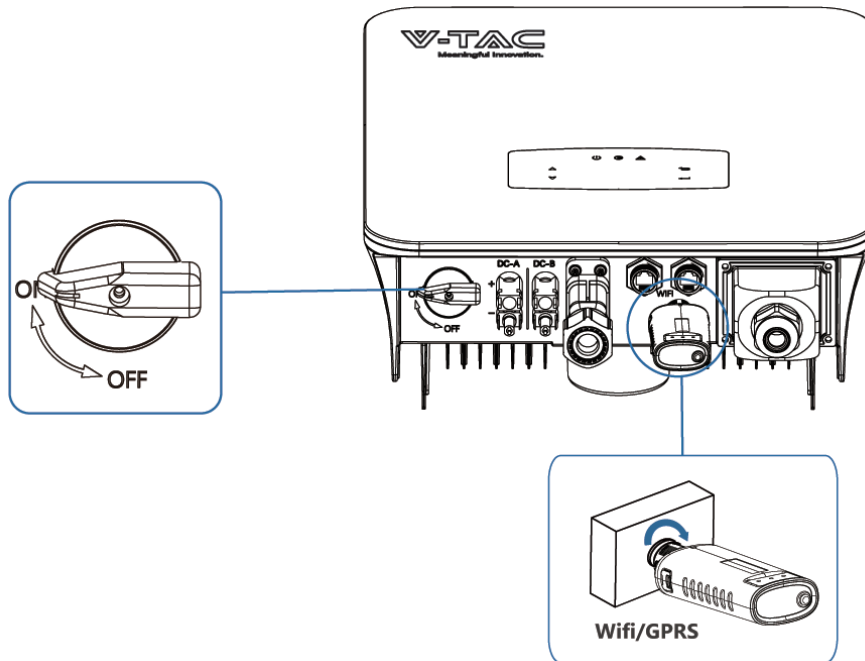
WIFI / Ethernet / GPRS / RS485 communication is applicable to the inverter.

Please refer to "Communication Configuration Instruction" for detailed instruction.

STEP 1



STEP 2



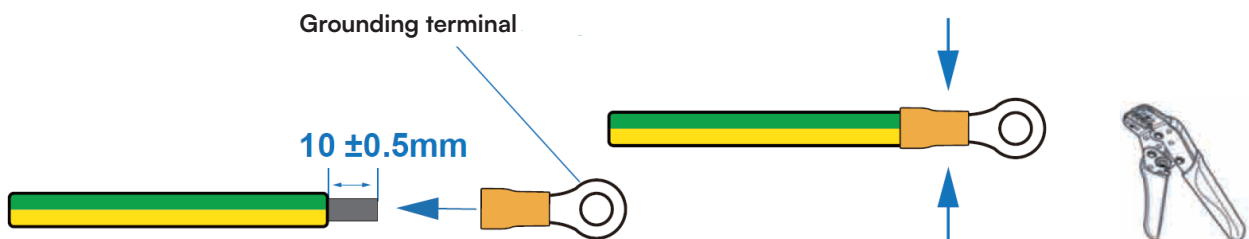
Turn on the DC switch and AC circuit breaker, and wait until the LED indicator on the monitoring module flashes, indicating that the monitoring module is successfully connected.

Earth Connection

Note:

A second protective earth (PE) terminal should be connected to the inverter. This prevents electric shock if the original protective PE wire fails.

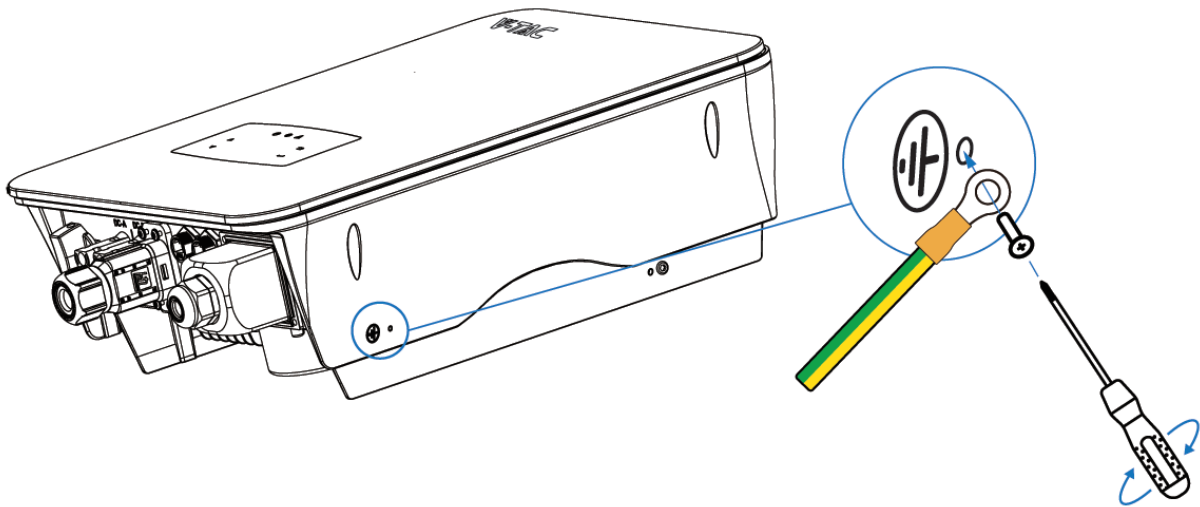
STEP 1



Note:

Earth cable PE suggestion:
Cross-section (Copper) $4\text{-}6\text{mm}^2$ / 10AWG

STEP 2

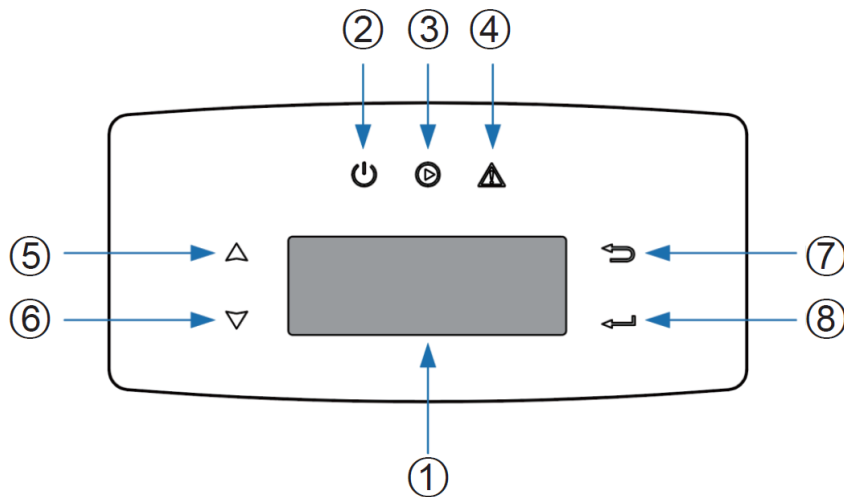


Fix the grounding screw to the grounding connection of the machine housing.

Note:

Make sure the earth cables on the inverter and solar panel frame are separately.

Operation 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

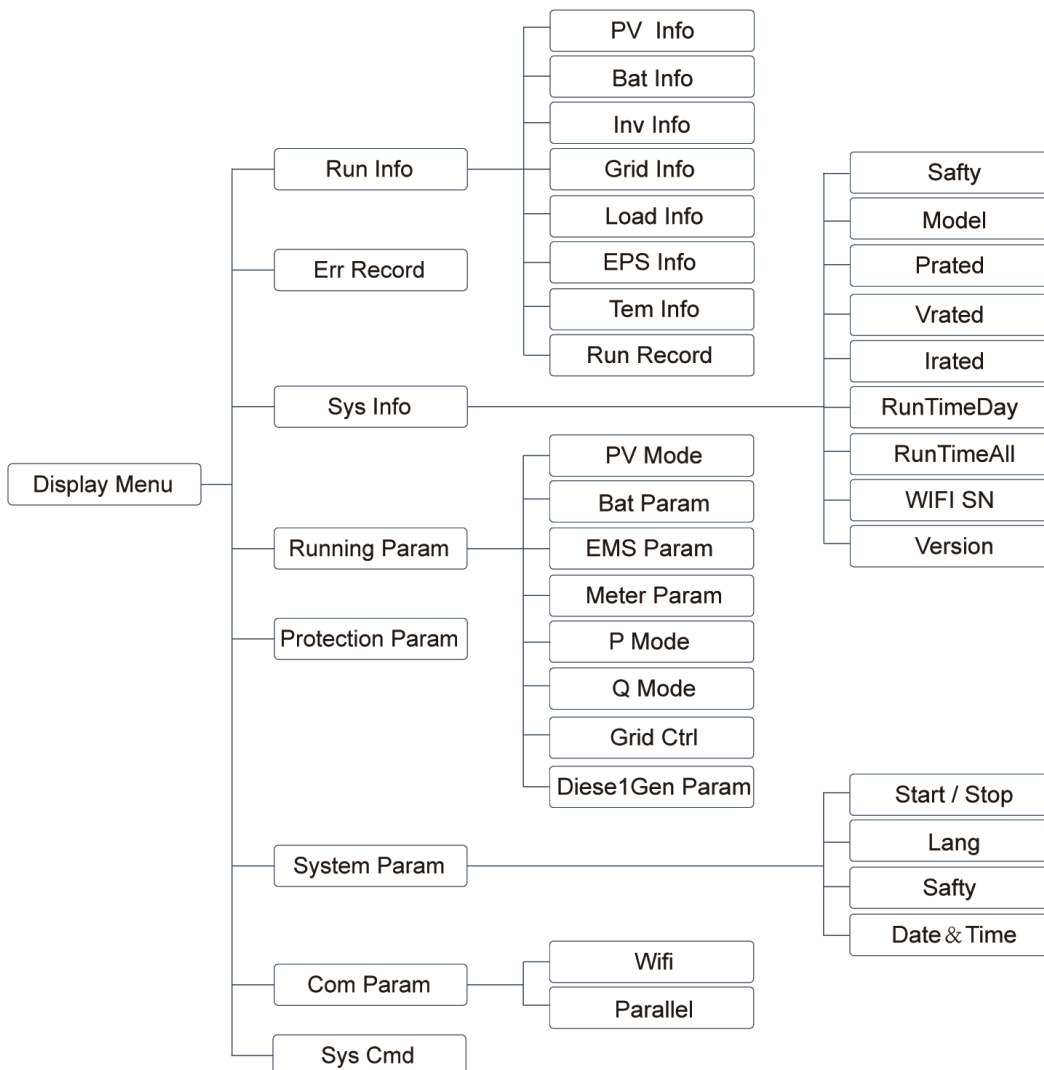
Note:

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

Menu Overview

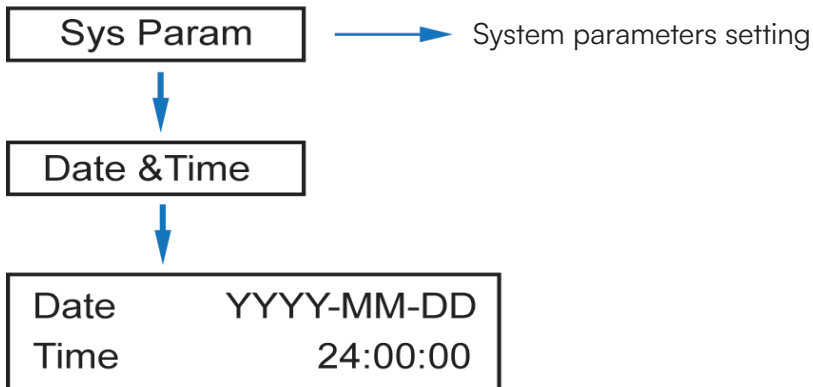
3.6kW hybrid inverter has a LCD for clearly operating, and menu of the LCD can be presented as following:



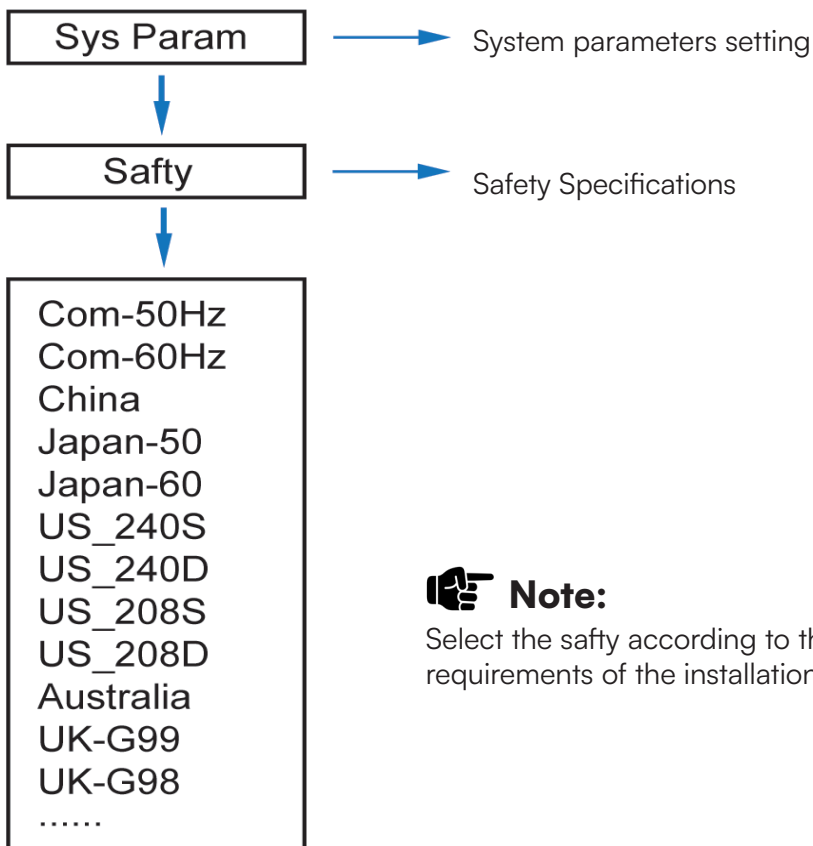
Inverter Setting

The setting is for 3.6kW Hybrid inverter. Any doubts, please contact distributor for more details.

Time & Date



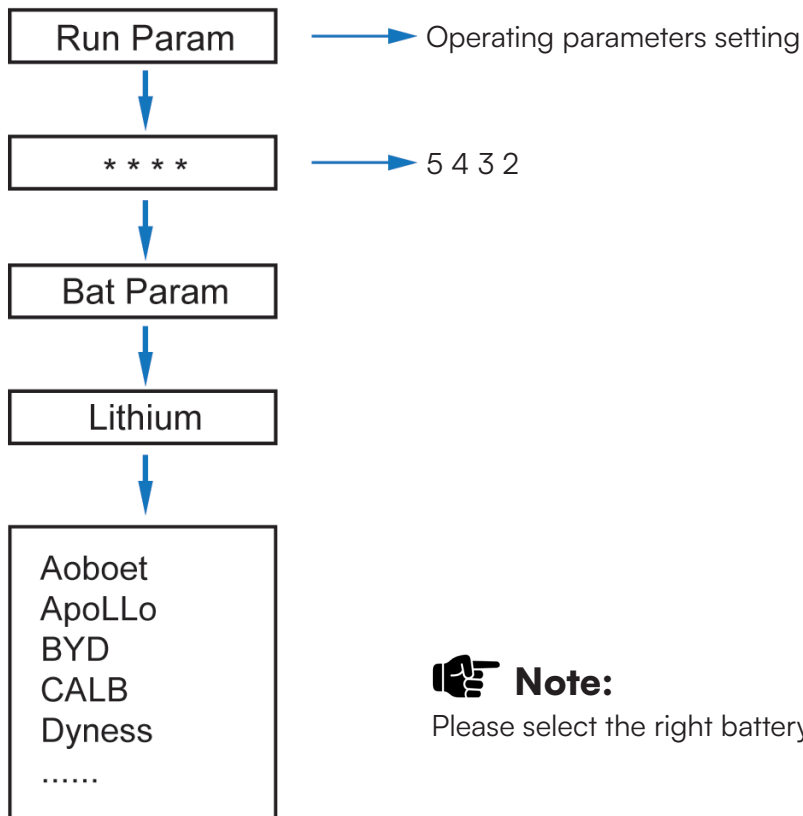
5.3.2 Safety



Note:

Select the safety according to the requirements of the installation site.

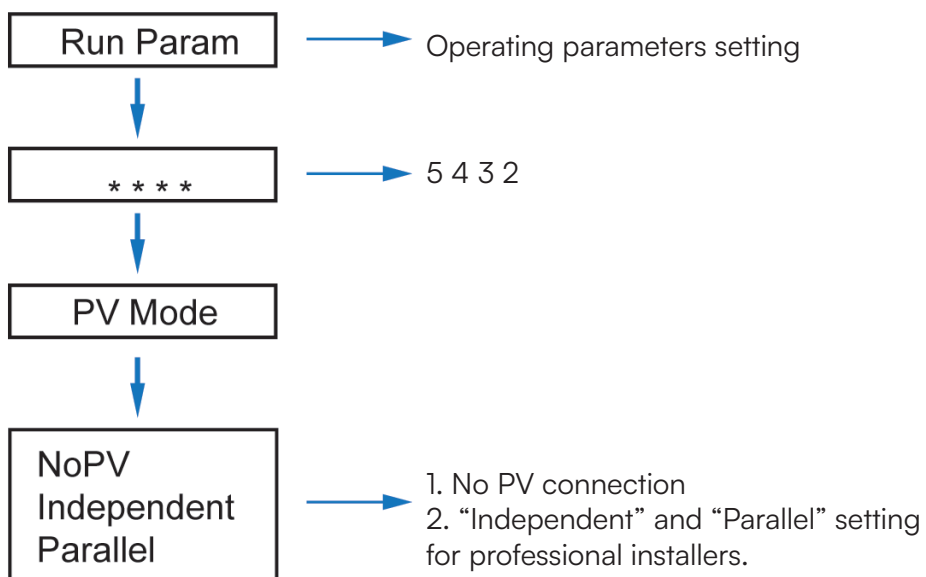
Lithium Battery



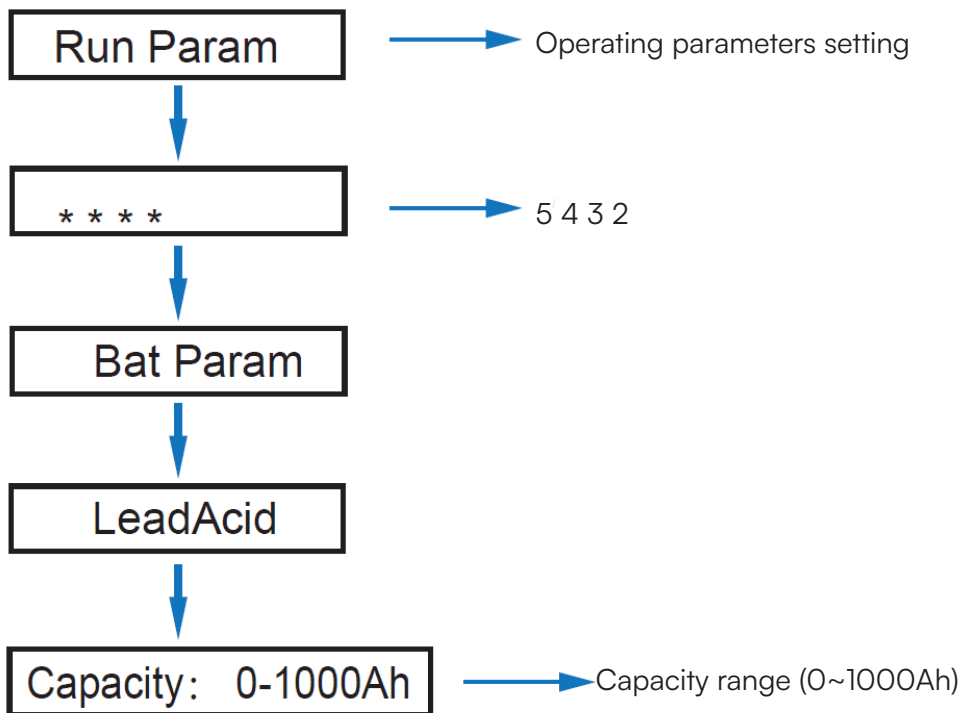
Note:

Please select the right battery brand to your use.

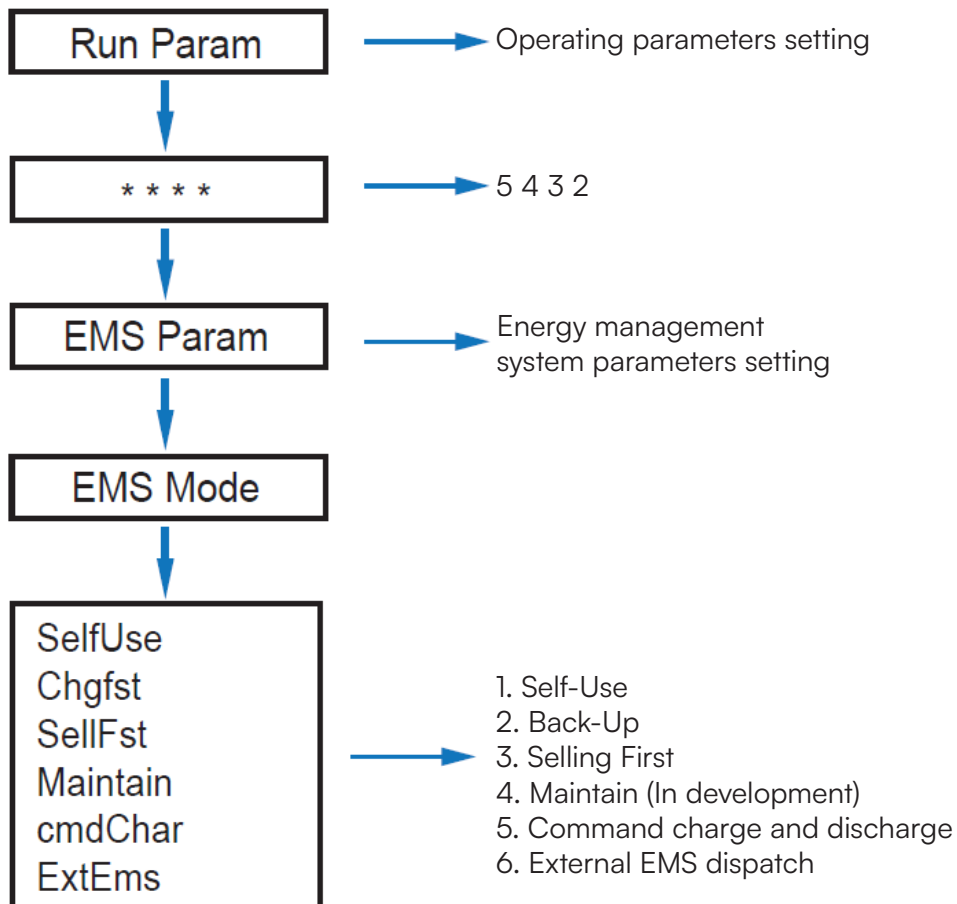
PV Mode



Lead Acid



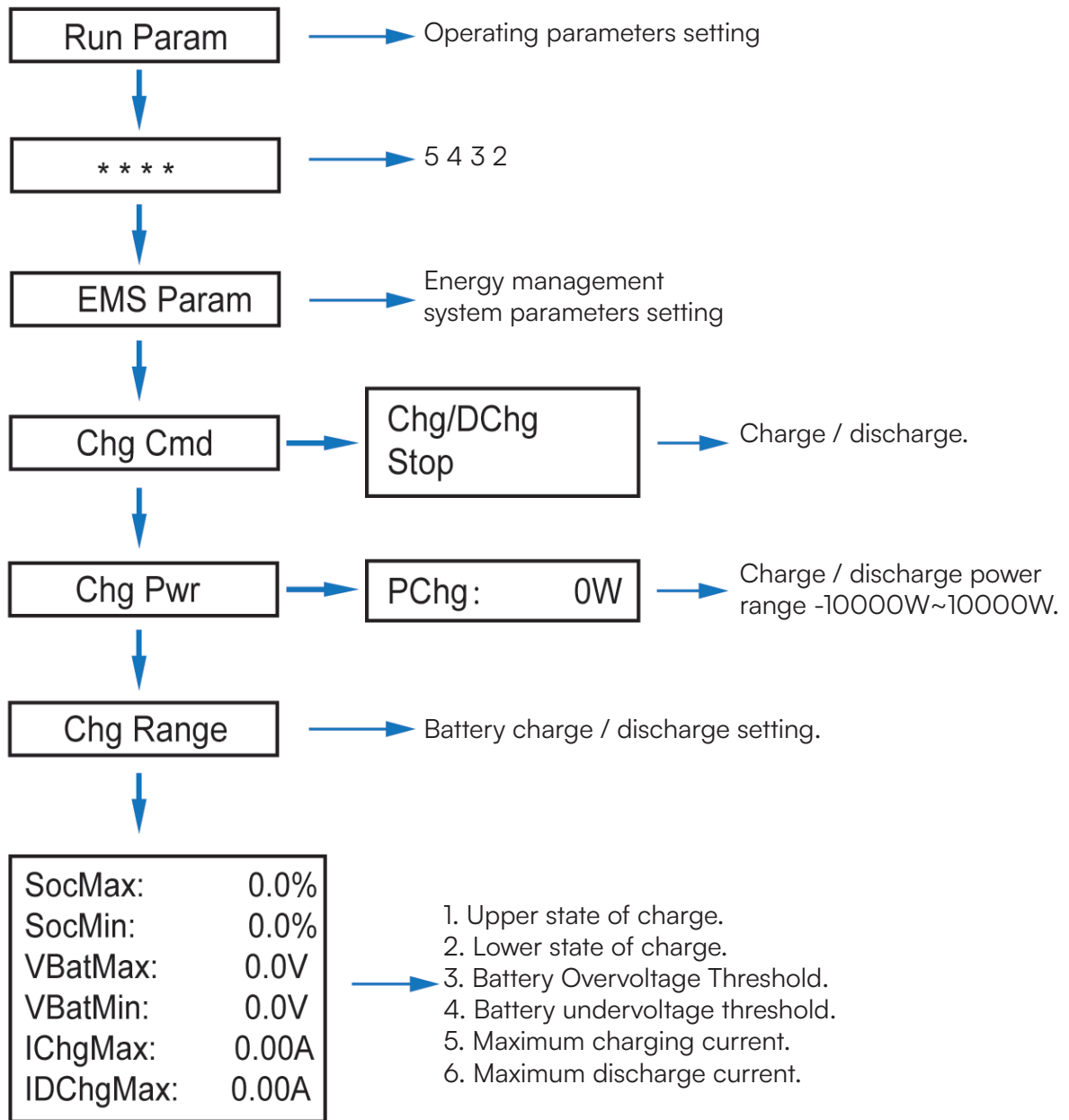
Energy Management System (EMS Param)



Note:

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

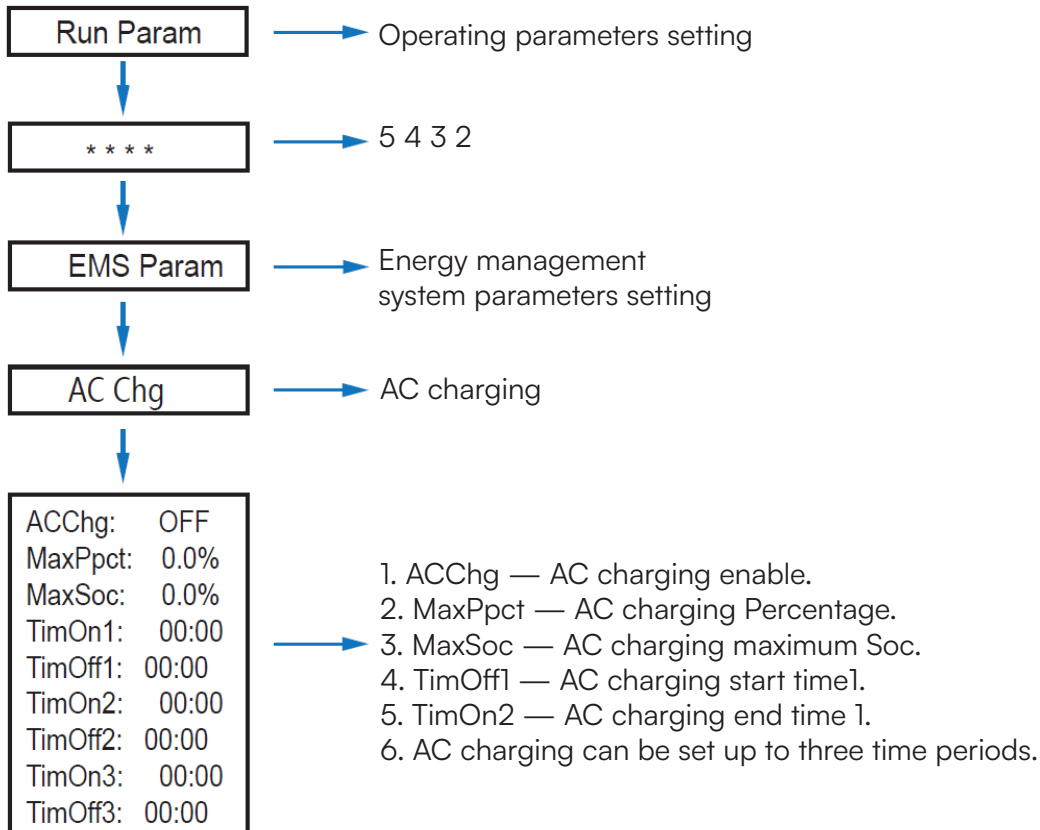
Time of Use



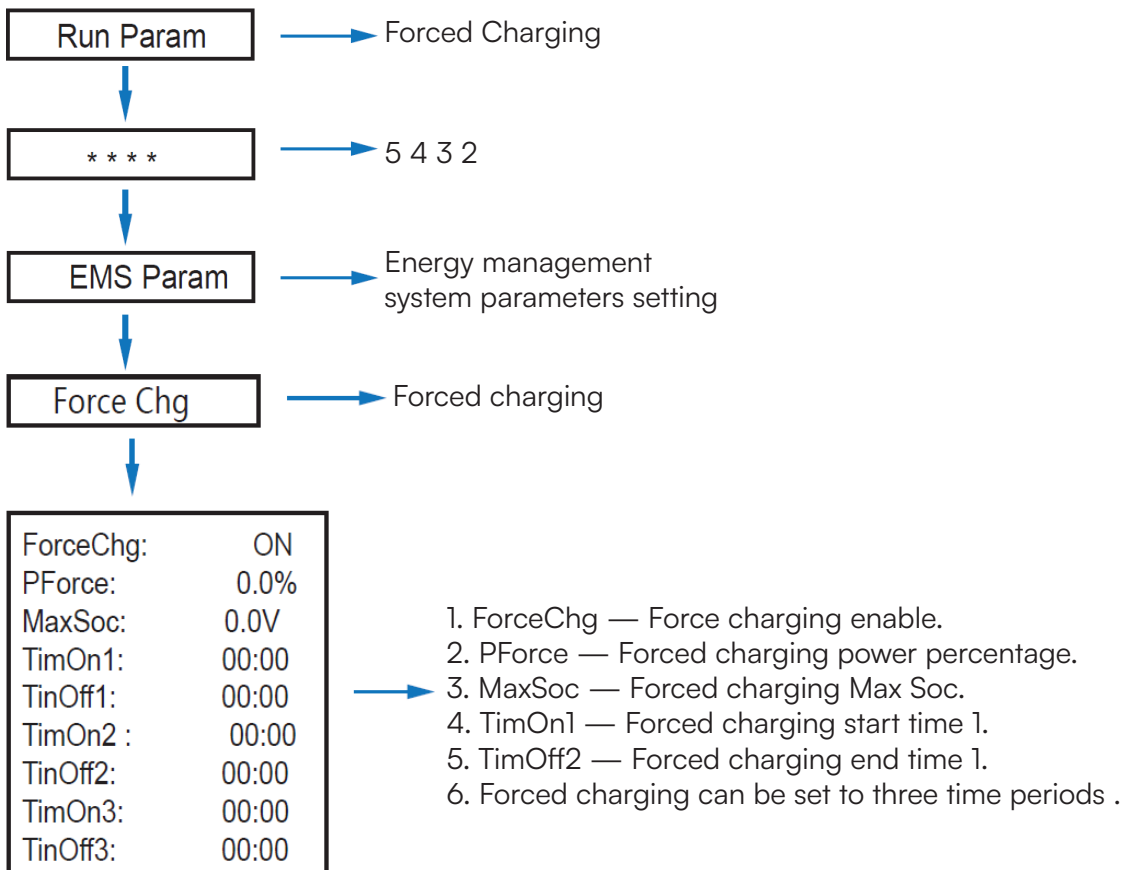
Note:

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

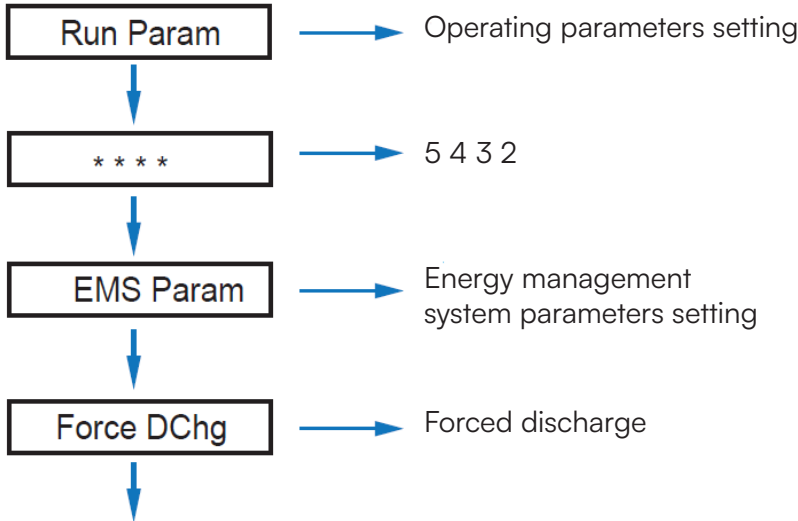
AC Charging



Forced Charging



Forced Discharging



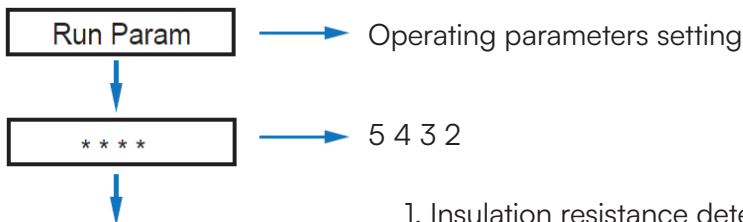
ForceDChg:	ON
PForce:	0.0%
MinSoc:	0.0V
TimOn1:	00:00
TinOff1:	00:00
TimOn2:	00:00
TinOff2:	00:00
TimOn3:	00:00
TinOff3:	00:00

1. ForceDChg — Forced discharging enable.
2. PForce — Forced discharging power percentage.
3. MinSoc — Forced discharging max Soc.
4. TimOn1 — Forced discharging start time 1.
5. TinOff1 — Forced discharging end time 1.

Note:

Forced discharging can be set to three time periods.

Protection Parameters



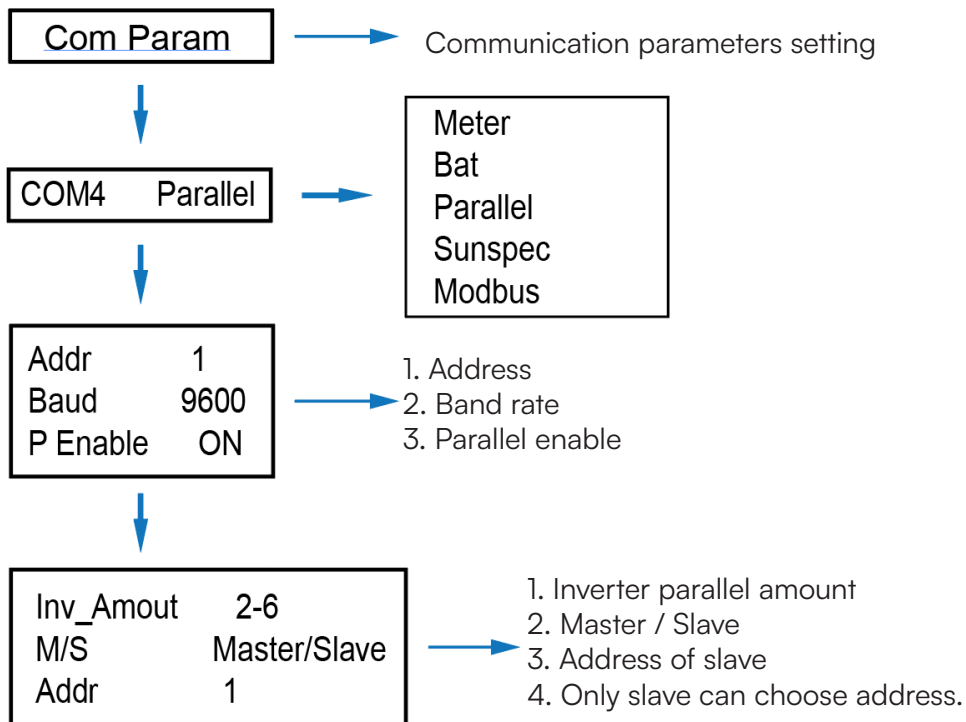
IsoChk	ON
GfciChk	ON
EarthChk	ON
V.max	0.0V
V.maxT	0.00S
V.min	0.0V
V.minT	0.00S
F.max	0.00Hz
F.maxT	0.00S
F.min	0.00Hz
F.minT	0.00S
ISO.min	0KΩ
T.conn	0S
T.Reconn	0S
RSSEN	ON

1. Insulation resistance detection
2. Leakage current detection
3. Ground detection
4. Voltage upper limit
5. Voltage upper limit time
6. Voltage lower limit
7. Voltage lower limit time
8. Frequency upper limit
9. Frequency upper limit time
10. Frequency lower limit
11. Frequency lower limit time
12. Impedance lower limit
13. Internet time
14. Restart time
15. Restart enable

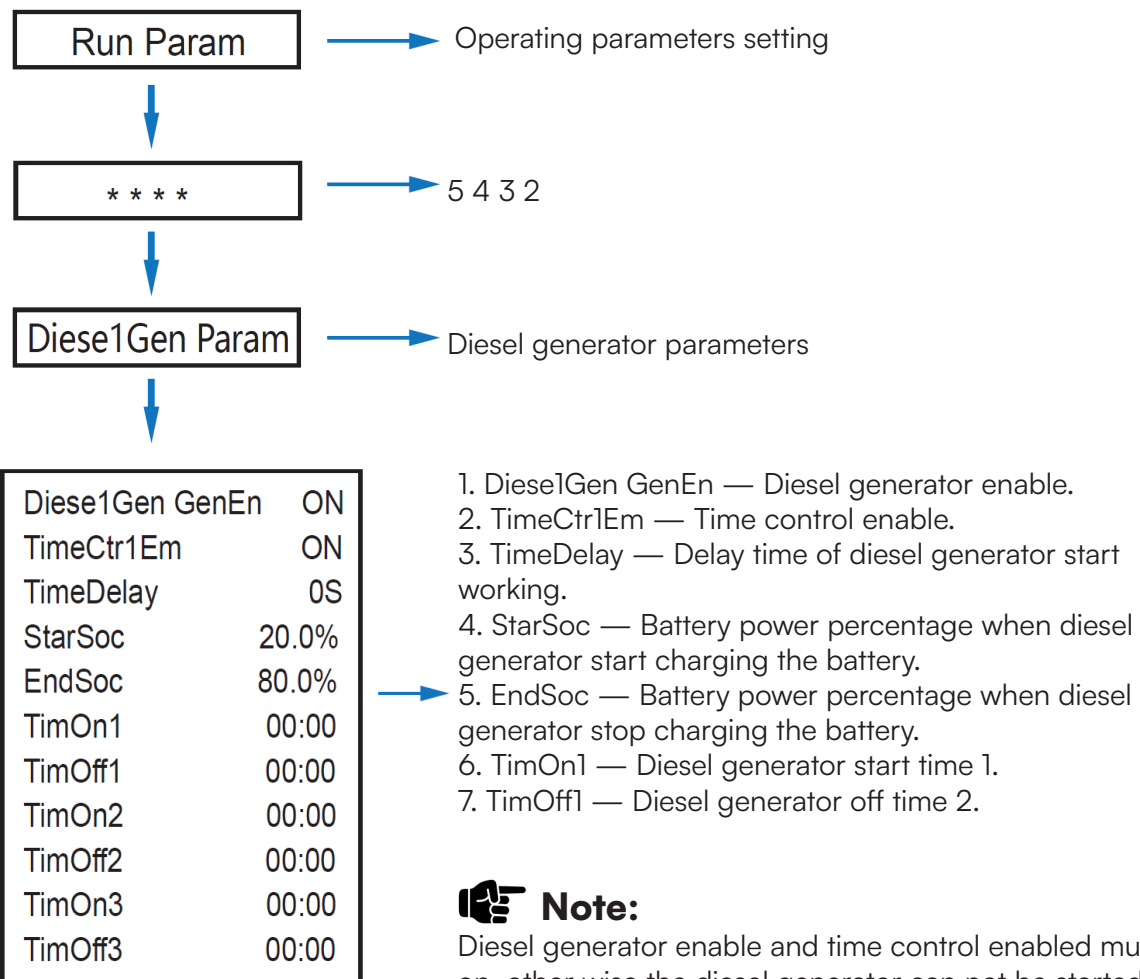
Note:

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

Multi-machine in Parallel



Diesel Generator Setting (Diese1 Gen Param)



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.
- 3.6kW hybrid inverters should be set according to the required local grid standard.
- More information please contact with VTAC or distributors.

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).

Power OFF

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



Note:

Hybrid inverter should be restarted after 5 minutes.

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.

MAINTENANCE & TROUBLE SHOOTING

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

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	<ul style="list-style-type: none"> • Check PV modules connection • Check PV Mode setup Ref. Chapter 5.3.
	A02	IsoFault	ISO check among PV panels/ wires and ground is abnormal	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Check PV(+) and PV(-) Connect whether reversed or not. • If reversed, make correction.
	A17	PV2ReverseFault		
	A18	PV3ReverseFault		
	A19	PV4ReverseFault		
	A20	PV5ReverseFault		
	A21	PV6ReverseFault		
	A22	PV7ReverseFault		
	A23	PV8ReverseFault		

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
PV FAULT	A24	Pv9ReverseFault	PV(+) and PV(-) reversed Connection	<ul style="list-style-type: none"> • Check PV modules partial occlusion or cells damaged. • Check PV module wires and connectors broken or loose connect, then repair it.
	A25	Pv10ReverseFault		
	A26	Pv11ReverseFault		
	A27	Pv12ReverseFault		
	A33	Pv1AbnormalFault		
	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			
	B01	PcsBatOverVolt-Fault	Battery voltage over or under	<ul style="list-style-type: none"> • 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	PcsBatUnderVolt-Fault		
	B03	PcsBatInsOverVolt-Fault		

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
Battery Fault	B04	PcsBatReversed-Fault	Bat. (+) and Bat. (-) are reversed.	<ul style="list-style-type: none"> • Check Bat.(+) and Bat.(-) connect reversed or not. • Make correction If reversed.
	B05	PcsBatConnect-Fault	Battery wires loose	<ul style="list-style-type: none"> • Check battery wires and connectors damage or loose connect. • Carry out rectification if break.
	B06	PcsBatComFault	Battery communication abnormal	<ul style="list-style-type: none"> • Check battery side communication wires damage or loose connect, and then carry out rectification. • Check battery is off or other abnormal, then Master-tenance battery or change new battery.
	B07	PcsBatTempSensorOpen	Battery temperature sensor abnormal	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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	BmsBatVolOver-Fault		
	B11	BmsBatVolUnder-Fault		
	B12	BmsCellVolOver-Fault		
	B13	BmsCellVolUnder-Fault		
	B14	BmsCellVolUn-balanceFau		
	B15	BatChgCurOver-Fault		
	B16	BatDChgCurOver-Fault		
	B17	BatTemperature-OverFa		
	B17	BatTemperature-OverFa		
B18	BatTemperatureUnderF			

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
Battery Fault	B19	CelTemperature-OverFa		
	B20	CelTemperatureUnderF		
	B21	BatIsoFault		
	B22	BatSocLowFault		
	B23	BmsInterComFault		
	B24	BatRelayFault		
	B25	BatPreChaFault		
	B26	BmsBatChgMos-Fault		
	B27	BmsBatDChgMos-Fault		
	B28	BMSVoIOVFault		
	B29	BMSVoILFault		
	B30	VolLockOpenFault		
	B31	VolLockShortFault		
	B32	ChgRefOVFault		
	C01	GridLossFault	Grid lost (islanding)	<ul style="list-style-type: none"> • Inverter will restart automatically when the grid return to normal. • Check inverter connected with grid connectors and cable normal or not.
C02	GridUnbalanVolt-Fault	Grid Voltage unbalanced.	<ul style="list-style-type: none"> • 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. connectors and cable normal or not. 	
C03	GridInstOverVolt-Fault	Grid instantaneous voltage over	<ul style="list-style-type: none"> • The inverter will restart automatically when the grid three phase return to normal. • Contact with local distributor or required grid company adjust protection parameters. 	

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
Battery Fault	C04	Grid10MinOverVolt-Fault	Grid voltage Over by 10 Minutes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	GridLineOverVolt-Fault	Grid line voltage over	
	C08	GridLineUnderVolt-Fault	Grid line voltage under	<ul style="list-style-type: none"> 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.
	C09	GridOverFreqFault	Grid Frequency over	
	C10	GridUnderFreqFault	Grid Frequency under	
Off-grid Fault	D01	UpsOverPowerFault	Off-grid load over	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Check the off-grid port connection correct, disconnect both off grid and grid ports.
	D03	GenOverVoltFault	GenOverVoltFault	<ul style="list-style-type: none"> 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	

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
DC Fault	E01	Pv1HwOverCurrFault	PV current over, triggered by hardware protection circuit	<ul style="list-style-type: none"> • 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	Pv10HwOverCurr-Fault		
	E11	Pv11HwOverCurrFault Pv1HwOverCurrFault		
	E12	Pv12HwOverCurrFault		
	E13	Pv1SwOverCurrFault	PV current over, triggered by Software logic.	<ul style="list-style-type: none"> • 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		
	E21	Pv9SwOverCurrFault		
	E22	Pv10SwOverCurrFault		
	E23	Pv11SwOverCurrFault		
	E24	Pv12SwOverCurrFault		
	E33	Boost1SelfCheck(-boost)Fault	PV boost circuit abnormal when self checking	<ul style="list-style-type: none"> • 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		

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
DC 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	<ul style="list-style-type: none"> • Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.
	E46	BusHwOverHalfVolt-Fault		
	E47	BusSwOverVoltFault		
	E48	BusSwOverHalfVolt-Fault		
	E49	BusSwUnderVoltFault	Bus voltage under as running	
	E50	BusUnbalancedFault	DC Bus voltage unbalanced	
	E51	BusBalBridgeHwOverCurFault	Bus Controller current over	<ul style="list-style-type: none"> • Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.
	E52	BusBalBridgeSwOverCurFault		
	E53	BusBalBridgeSelf-CheckFault	Bus Controller abnormal when self checking	
	E54	BDCHwOverCurr-Fault	BiDC current over	<ul style="list-style-type: none"> • Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors.
	E55	BDCSwOverCurr-Fault		
	E56	BDCSelfCheckFault	BiDC abnormal as self checking	
	E57	BDCSwOverVoltFault	BiDC voltage over	
	E58	TransHwOverCurrFault	BiDC current over	
E59	BDCFuseFault	BiDC fuse broken	<ul style="list-style-type: none"> • Change fuse. 	
E60	BDCRelayFault	BiDC relay abnormal	<ul style="list-style-type: none"> • Power off, then restart (Ref. Chapter8). • If those faults continuously and frequently, please ask help for local distributors. 	

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
AC Fault	F01	HwOverFault	All over current/ voltage by protection hardware	<ul style="list-style-type: none"> • Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.
	F02	InvHwOverCurr-Fault	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	GridUnbalanCurr-Fault	On-grid current unbalanced	
	F07	DcInjOverCurrFault	DC injection current over	
	F08	AcOverLeakCurr-Fault	Ac side leakage current over	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	GenReversePower-Fault	Active power injected to generator	<ul style="list-style-type: none"> • If those fault occurs continuously and frequently, please ask help for local distributors.

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
AC Fault	F21	UpsOverVoltFault	Off-grid output voltage over or under	<ul style="list-style-type: none"> • 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	DcInjOverVoltFault	Off-grid DC injection voltage over	
System Fault	G01	PV1CurAdChanFault	Sampling hardware abnormal	<ul style="list-style-type: none"> • 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	BDCCurrAdChan-Fault		
	G14	TransCurAdChanFault		
	G15	BalBrigCurAdChan-Fault		
	G16	RInvCurAdChanFault		
	G17	SInvCurAdChanFault		
	G18	TInvCurAdChanFault		
	G19	RInvDciAdChanFault		
	G20	SInvDciAdChanFault		
	G21	TInvDciAdChanFault		
	G22	LeakCurAdChanFault		
	G23	VoltRefAdChanFault		
	G24	UpsRCurAdChanFault		
	G25	UpsSCurAdChanFault		
	G26	UpsTCurAdChanFault		
	G27	GenRCurAdChan-Fault		
	G28	GenSCurAdChan-Fault		

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
System Fault	G29	GenTCurAdChan-Fault		
	G30	UpsRDcvAdChan-Fault		
	G31	UpsSDcvAdChan-Fault		
	G32	UpsTDcvAdChan-Fault		
	G37	TempAdChanFault	All temperature sensors abnormal	
	G38	VoltAdConflictFault	The sample value of PV, battery and BUS voltage inconsistent	<ul style="list-style-type: none"> • Power off, then restart (Ref. Chapter8). • If those faults occurs continuously and frequently, please ask help for local distributors.
	G39	CPUAdConflictFault	The sample value between master CPU and slaver CPU inconsistent	
	G40	PowerCalcConflict-Fault	Power value between PV, battery and AC ou put inconsistent	
	G41	EnvirOverTempFault	Installation environment temperature over or low	<ul style="list-style-type: none"> • 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	CoolingOverTemp-Fault	Cooling temperature over or low	
	G44	CoolingLowTemp-Fault		
	G45	OverTemp3Fault	Temperature3 over or low	
	G46	LowTemp3Fault		
	G47	CpuOverTempFault	CPU temperature over	
	G48	ModelConflictFault	Version conflict with inverter	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Remove foreign matter logged in fan. • If those faults occurs continuously and frequently, please ask help for local distributors.
	I02	ExterFanWarning		
	I03	Fan3Warning		

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
Inner Warning	I04	EnvirTempAdChanWarning	Some temperature sensors abnormal	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Contact with local distributor. 	
Outside Warning	J01	MeterComWarning	Meter/CT abnormal	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
Outside Warning	J04	GndAbnormal-Warning	Earth impedance over by cable loose and so on	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

SPECIFICATIONS

PV INPUT		VT-6607136
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)		18.5X2
Max. Short Current (A)		26X2
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		VT-6607136
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 Current (A)		16.4 / 15.7
Nominal AC Voltage L-N (V)		220 / 230
Nominal AC Frequency (Hz)		50 / 60
Switching Time (s)		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 VT-6607136

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 VT-6607136

Dimensions (L x W x H, mm)	370 x 513 x 192
Weight (kg)	17
Topology	Transformerless
Cooling	Intelligent Fan
Relatively 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	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2
EMC	EN61000-6-2, EN61000-6-3

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

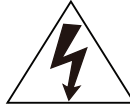
Please scan the QR code to access the manual in multiple languages.

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



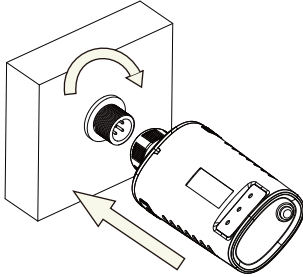
SOLARMAN Business
One-Stop O&M, After Service
Management Software

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

1. WIFI MODULE INSTALLATION

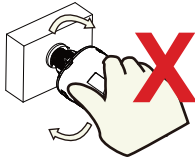
Type 1

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.)
	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.
	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.
	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

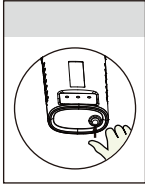
If the data on platform is abnormal when the WIFI Module is running, please check the table below and according to the status of indicator lights to complete a simple troubleshooting. If it still can not be resolved or indicator lights status do not show in the table below, please contact Customer Support.

(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



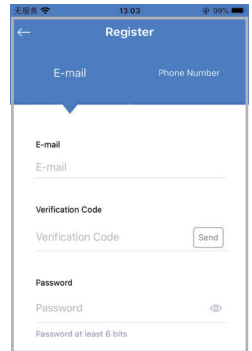
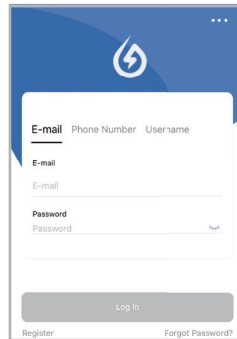
Notice:
Do not remove waterproof plug.



USER MANUAL FOR SOLARMAN SMART APP

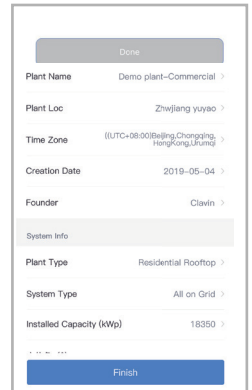
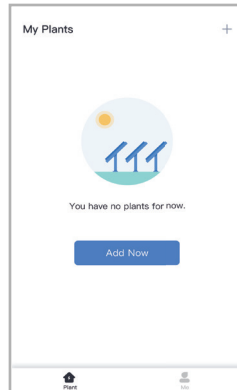
1.Registration

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



2.Create a Plant

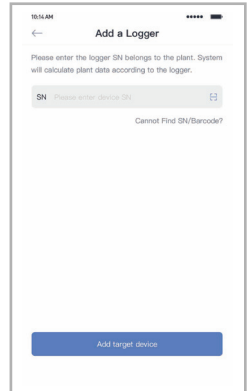
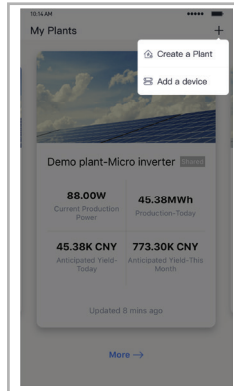
Click "Add Now" to create your plant.
Please fill in plant basic info and other info here.



3.Add a Logger

Method 1: Enter logger SN manually.

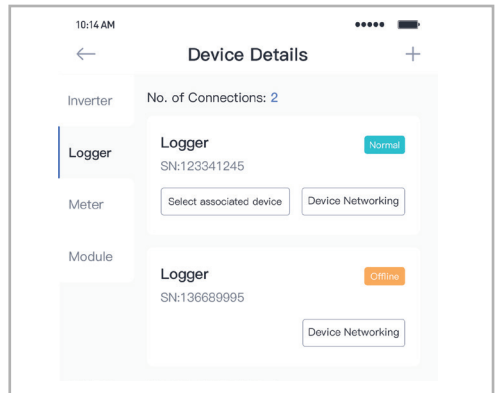
Method 2: Click the icon in the right and scan to enter logger SN
You can find logger SN in the external packaging or on the logger body.



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".

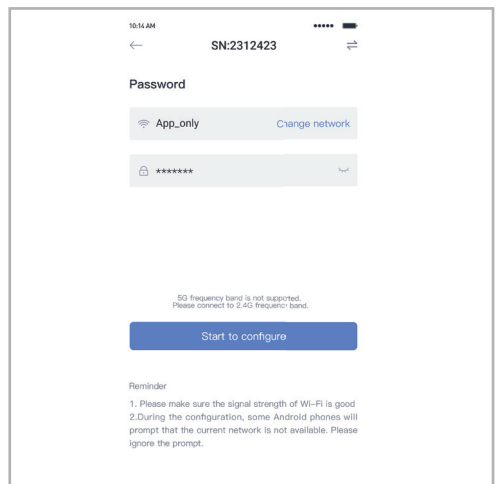


Step 1: Confirm Wi-Fi Info

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

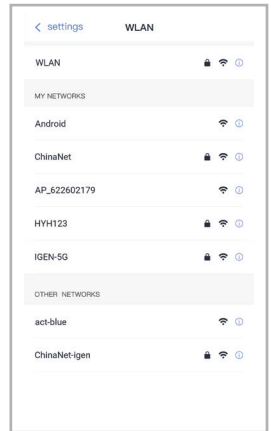
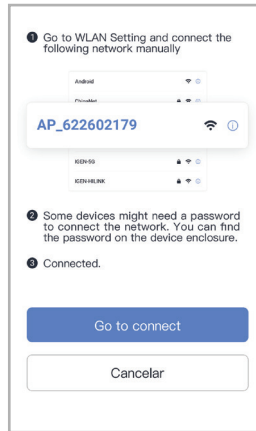
Notice:

5G WiFi is not supported .



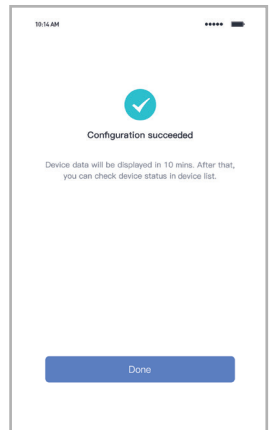
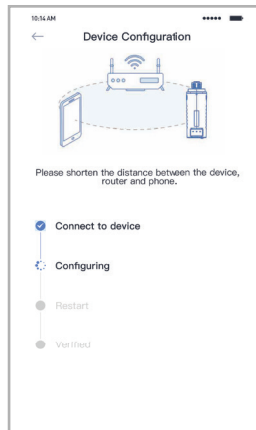
Step 2: Connect to AP network
Click "Go to connect" and find the right "AP_XXXXX" network (XXXXXX Refers to logger SN).

If the password is required, you can find the password on the logger body. Go back to Solarman Smart 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.

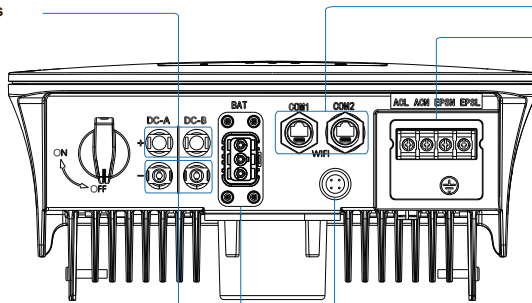
Warning:

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.

QUICK INSTALLATION GUIDE

OVERVIEW

DC Connectors (+) For PV Strings
DC Switch



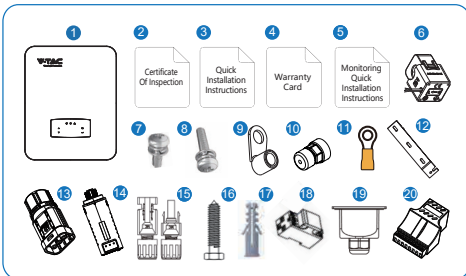
DC Connectors (-) For PV Strings
Battery Port

Communication Port
AC Port & EPS Port

Monitor Module Port

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.



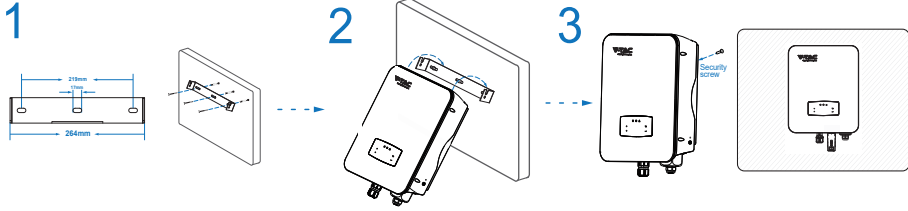
No.	Qty	Items	No.	Qty	Items
1	1	Hybrid Inverter	11	1	Grounding Terminal
2	1	Certificate Of Inspection	12	1	Wall Mounting Bracket
3	1	Quick Installation Instructions	13	1	Battery Connector
4	1	Warranty Card	14	1	Monitor Module
5	1	Monitoring Quick Installation Instructions	15	1/2	DC Connector
6	1	CT	16	3	Mounting Bracket Screw
7	4	AC Wiring Cover Screw	17	3	Plastic Expansion Tube
8	1	Security Screw	18	1	Smart Meter (Optional)
9	4	AC Wiring Terminal	19	1	AC Waterproof Cover
10	2	Communication Connectors	20	1	Communication Adapter



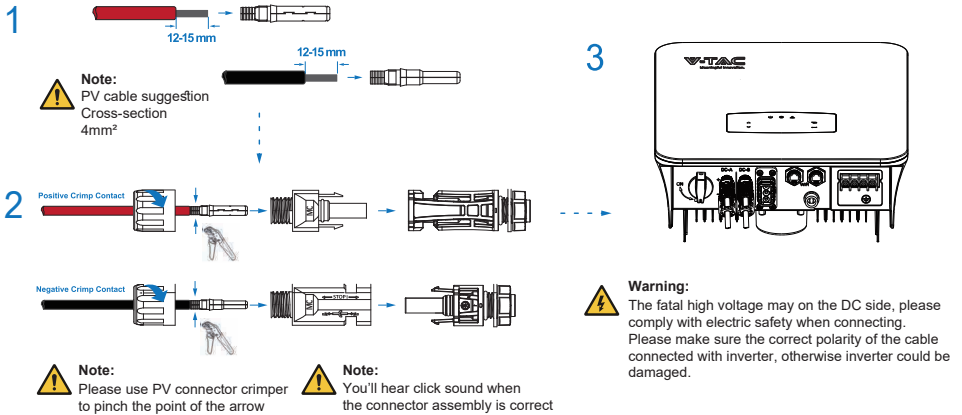
User Manual QR CODE

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

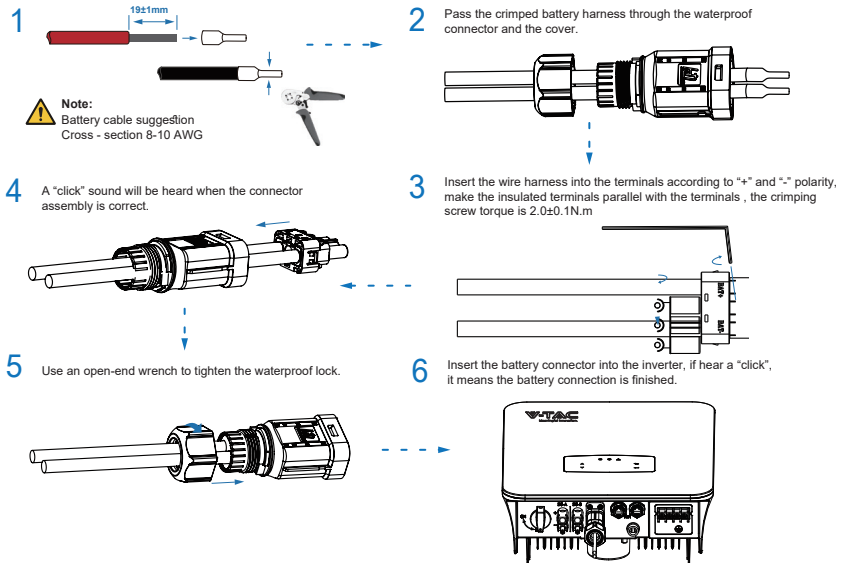
MOUNTING

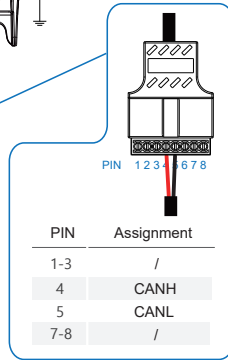
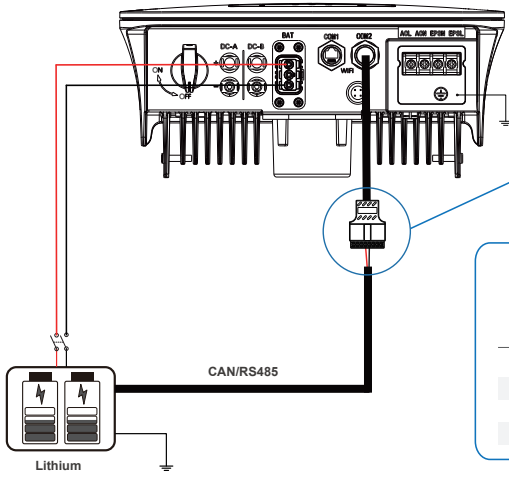


PV CONNECTION

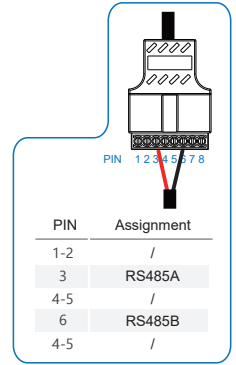


BATTERY CONNECTION



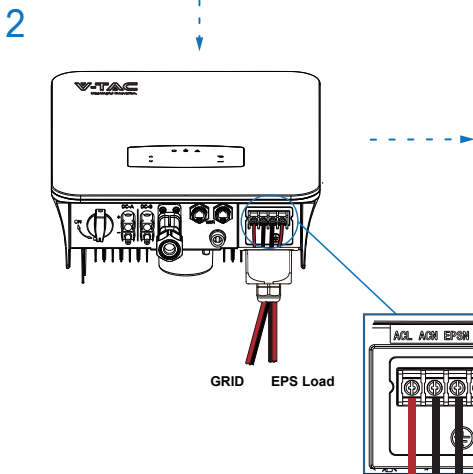
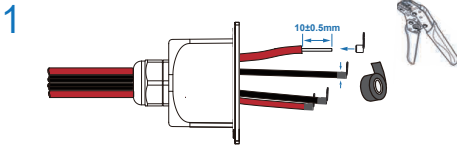


CAN-485

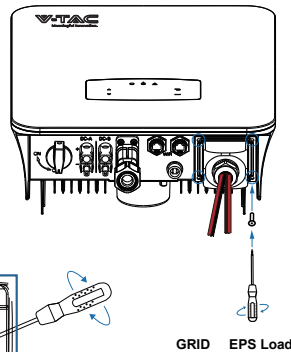


BAT-485

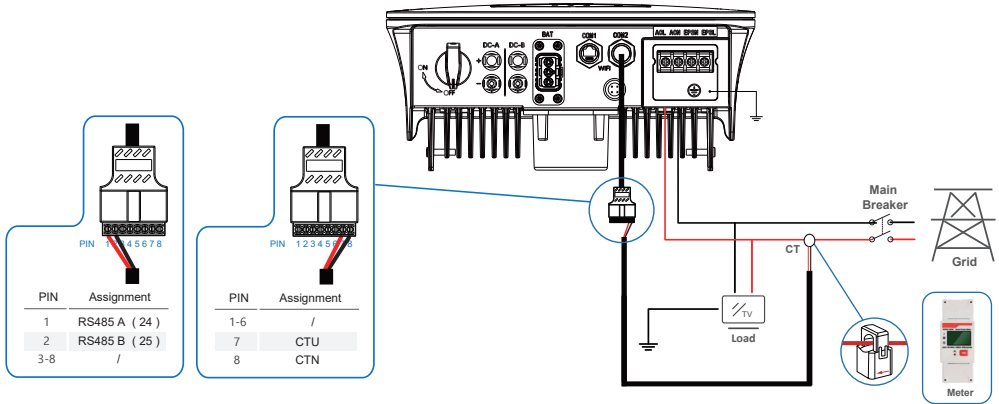
GRID AND EPS CONNETION



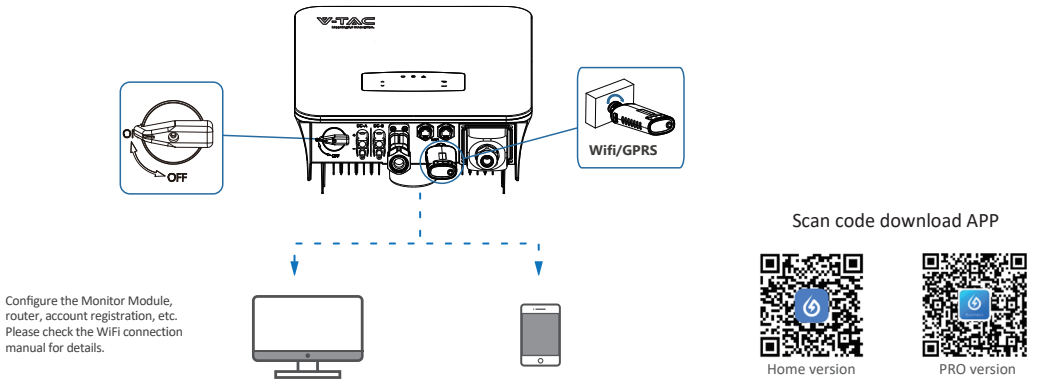
- Note:**
Cable suggestion Cross-section 8-10AWG.
- Note:**
The Max. power load connects to EPS port should not exceed the inverter's EPS Max. output power range.
- Note:**
The wiring terminals should be wrapped with insulation tape, otherwise it will cause a short circuit and damage the inverter.



CT OR METER CONNECTION

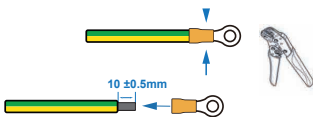


WIFI CONNECTION



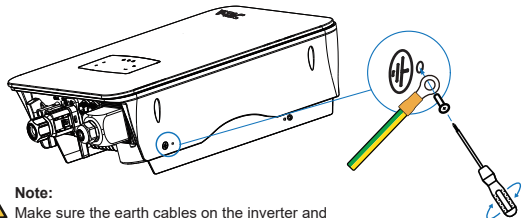
GROUND CONNECTION

1



2

Fix the grounding screw to the grounding connection of the machine housing.



Note:
Earth cable PE suggestion:
Cross-section (Copper) 4-6mm² / 10AWG

Note:
Make sure the earth cables on the inverter and solar panel frame are separately.