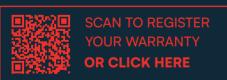


3.6kW

Single Phase Hybrid Solar Inverter

O5 WARRANTY







Single Phase Hybrid Solar Inverter

LISTING DETAILS

Model No:	VT-6607136
SKU Code:	11576
EAN Code:	3800157699297

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)	18.5x2
Max. Short Current(A)	26x2
No. of MPP Tracker / No. of PV String	2/2

BATTERY PORT

Battery Type	Li-ion / Lead-acid etc.
Battery Voltage Range(V)	40-60
Battery Normal Voltage(V	51.2
Max. Charge/Discharge C	Current(A) 80
Max. Charge/Discharge F	Power(kW) 3.6

EFFICIENCY

CEC Efficiency(%)	97
Max. Efficiency(%)	97.6
PV to Bat. Efficiency(%)	98.1
Bat. between AC Efficiency(%)	96.8

AC LOAD OUTPUT

Nominal AC Voltage L-N(V)	220 / 230
Nominal AC Frequency(Hz)	50 / 60
Nominal AC Current(A)	16.4/15.7
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
Switching Time(s)	Seamless
Voltage THD(%)	< 3

AC GRID

Nominal Grid Voltage(V)	220 / 230	
Nominal Grid Frequency(Hz)	50 / 60	
Nominal Grid Current(A)	16.4/15.7	
Max Continuous Current(A)	17.0	
Max Continuous Power(kVA)	3.6	
Current THD(%)	< 3	
Power Factor	0.999 (Adjustable from 0.8	
(overexcited to 0.8 underexcited)	

GENERAL DATA

Dimensions (L	x W x H, mm)	513 x 370 x 192		
Weight (kg)		17		
Topology		Transformerless		
Cooling		Intelligent Fan		
Relatively Hun	nidity	0 - 100 %		
Operating Ten	nperature Range (°C)	- 25 to 60		
Operating Alti	tude (m)	< 4000		
Noise Emissio	n (dB)	< 25		
Standby Cons	umption (W)	< 10		
Mounting		Wall Bracket		
Communication	on with RSD	SUNSPEC		
Display & Con	nmunication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G		
Certification & Approvals	- , , , , , , , , , , , , , , , , , ,			
EMC	EN61000-6-2, EN61000-6-3			

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

ENA Type Test: https://connect-direct.energynetworks.org/device-databases/generation-device/AFORE%2F12749%2FV1

ENA Device Reference: AFORE/12749/V1

V-TAC.EU VTACEXPORTS.COM PAGE 1



WEEE Number: 80133970

INSTRUCTION MANUAL

HYBRID SOLAR INVERTER

MODEL	VT-6607136
SKU	11576, 11955
PV INPU	T PARAMETER
Mppt Input Voltage	550V
Vmax PV	550V
Max. Input Current	18.5x2A
Isc PV	26x2A
AC INOUT/OL	JTOUT PARAMETER
Rated Apparent Powe	r 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 adjust- able)
BATTER'	Y PARAMETER
Storage type:	Li-ion / Lead-acid etc.
Battery input voltage:	40V-60V
Cut Off Voltage:	39.5V
Max. charging Voltage	e: 60V
Max. Protective Voltage	ge: 62V
Max. continuous charge Current:	ging 80A
Max.Discharging Curr	rent: 80A



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.

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

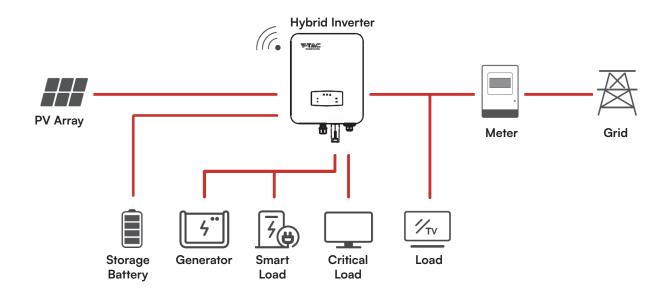
VTAC inverter strictly comply with relevant safety standards. Please read and follow all the instructions and cautions during installation, operation and maintenance.

SYMBOL	EXPLANATION		
A	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.		
5mIn	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.		
Z	Do not dispose of this device with the normal domestic waste.		
	Refer to manual before service.		
CE	CE mark The inverter complies with the requirements of the applicable CE guidelines.		

INTRODUCTION

Basic Instruction

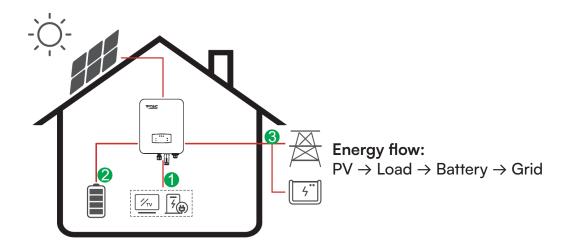
The VTAC hybrid inverters are designed to increase energy independence for homeowners. Energy manag ment is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from the public grid and optimize self-consumption.



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 batte ies, any remaining excess is then exported to the grid.



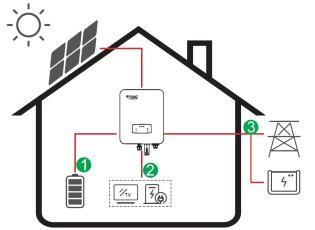


When select 0 W under P_Feed menu, the inverter will export zero energy to the grid. When select xx W under P_Feed menu, the inverter will export customized energy to the grid.

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.

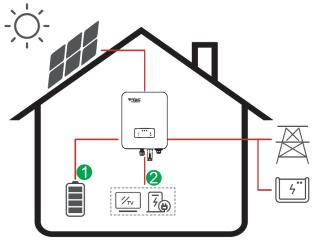
A. Charge Setting PV Charge Mode



4 periods of time charge setting. **Energy flow:**

 $PV \rightarrow Battery \rightarrow Load \rightarrow Grid$

AC Charge Mode



4 periods of time charge setting. **Energy flow:**

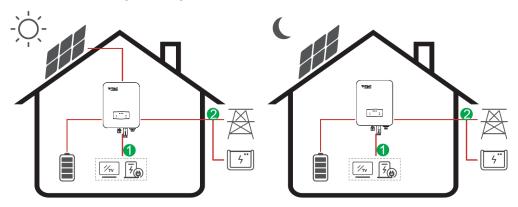
PV and Grid → Battery → Load



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

B. Discharge

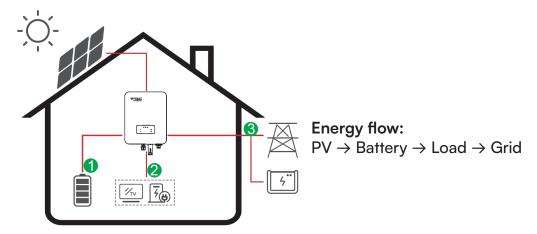
4 periods of time discharge setting



Energy flow: Battery and PV → Load → Grid

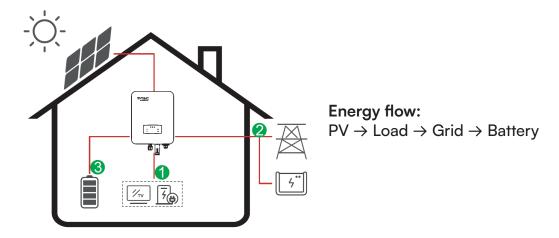
C. Forbidden Discharge

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



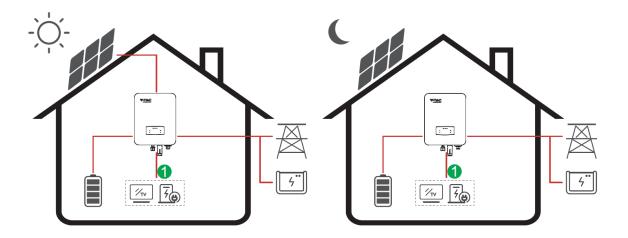
Selling First

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

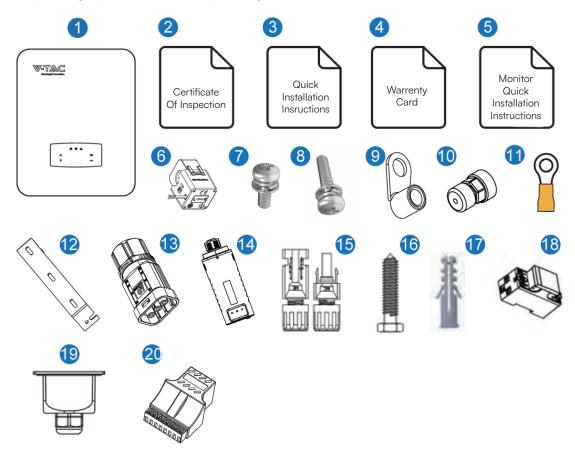
Unpacking & Package List

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.

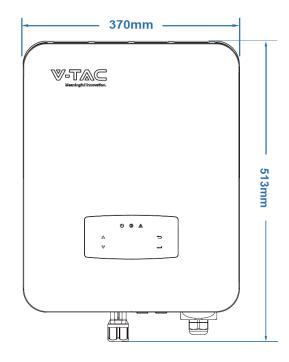
Package List

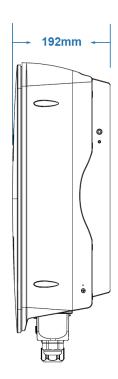
Open the package, please check the packing list shown as below.



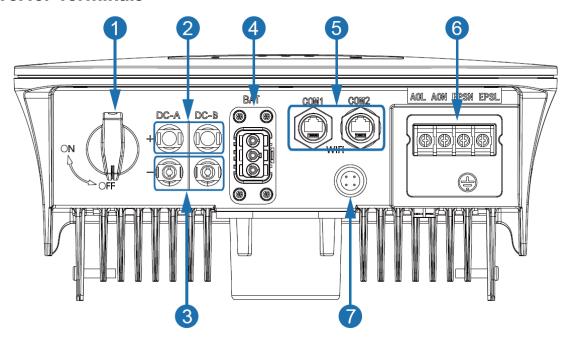
No.	Qty	Items	No.	Qty	Items
1	1	Hybrid Inverter	11	1	Grounding Terminal
2	1	Certificate Of Inspection	12	1	Wall Mounting Bracket
3	1	Quick Installation Instructions	13	1	Battery Connector
4	1	Warranty Card	14	1	Monitor Module
5	1	Monitoring Quick Installation Instructions	15	2	DC Connector
6	1	CT	16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

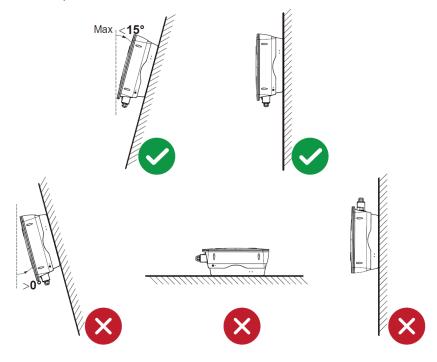
Mounting Location

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

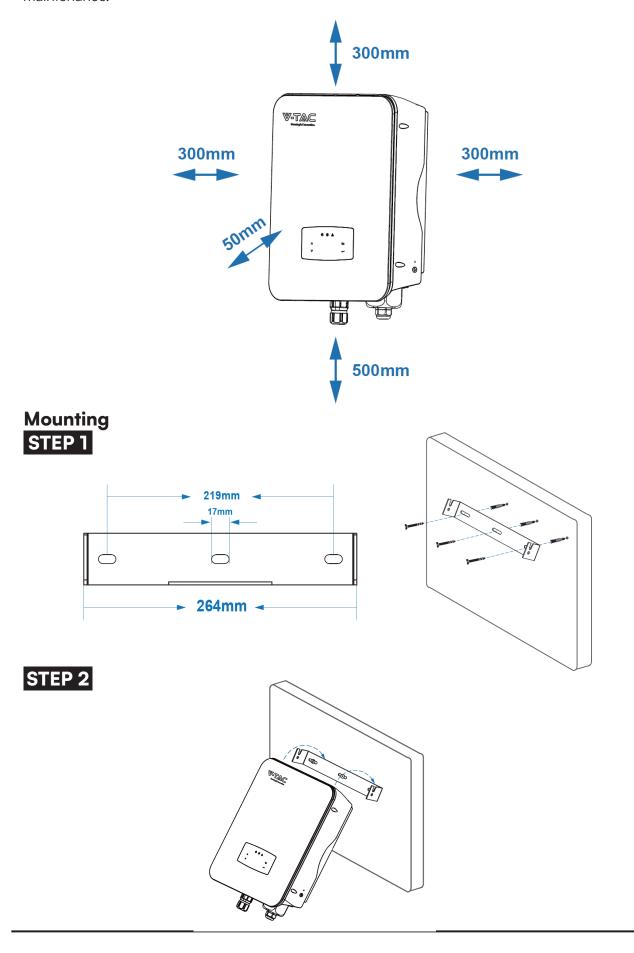
- The inverter should be installed on a solid surface, far from flammable or corrosion materials, where is suitable for inverter's weight and dimensions.
- The ambient temperature should be within -25°C ~ 60°C (between -13 °F and 140°F).
- The installation of inverter should be protected under shelter.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



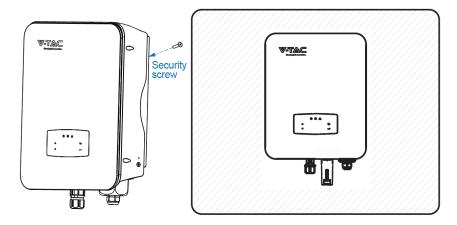
• The inverter should be installed vertically on the wall, or lean back on plane with a limited tilted angle. Please refer to below picture.



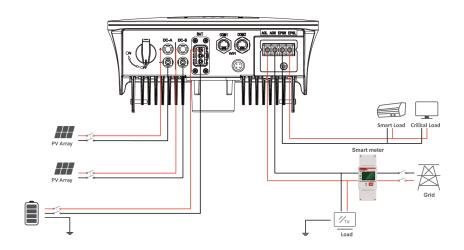
• Leave the enough space around inverter, easy for accessing to the inverter, connection points and maintenance.



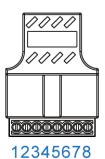
STEP 3



Electrical Connection



Communication Adapter pin assignment



COM2 No. COM1 1 NTC+ Meter 485A NTC-2 Meter 485B 3 **Dry Contact BAT 485A** 4 **Dry Contact BAT CANH** DRM **BAT CANL** 5 DRM **BAT 485B** 6 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 kΩ.
- 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.

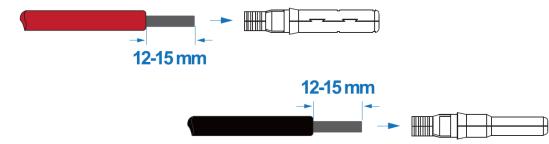


Warning:

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.

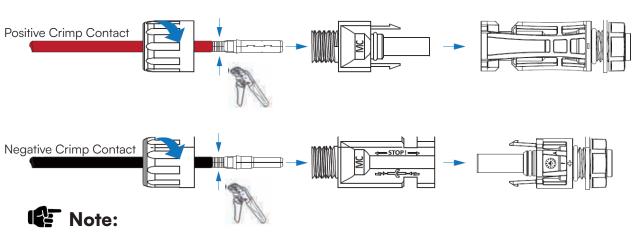
STEP 1



Note:

PV cable suggestion Cross-section 4mm²

STEP 2

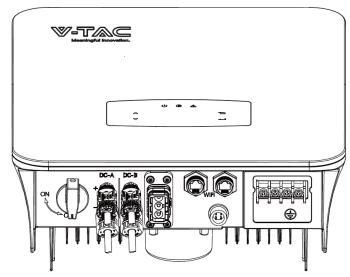


Please use PV connector crimper to pinch the point of the arrow.



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

STEP 3



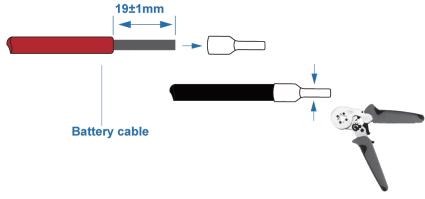
Battery Connection

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.



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

STEP 1

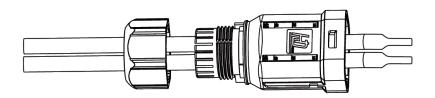


Note:

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

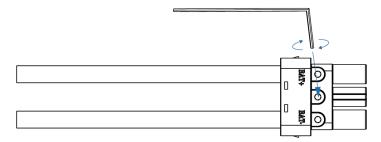
STEP 2

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



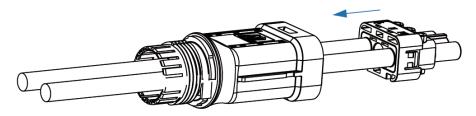
STEP 3

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±0.1N.m



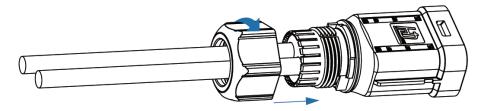
STEP 4

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



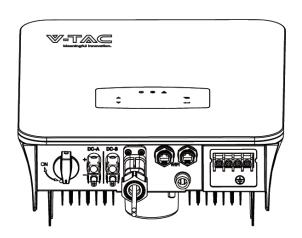
STEP 5

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

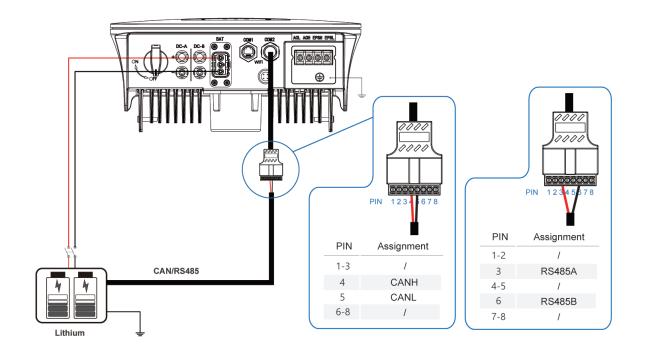


STEP 6

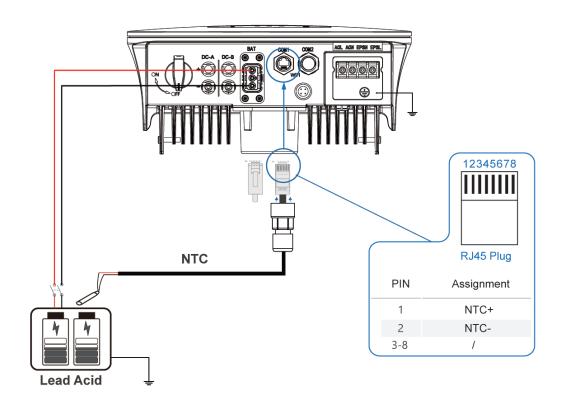
Insert the battery connector into the inverter, if hear a "click", it means the battery connection is finished.



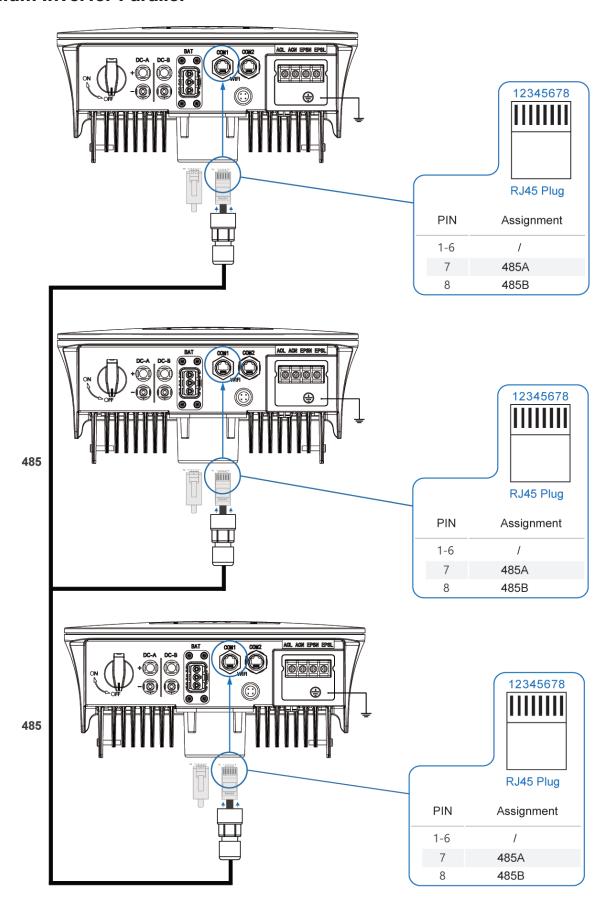
BAT-CAN/RS485



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	



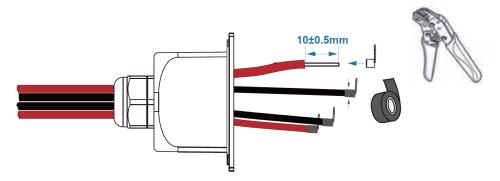
Qualified electrician will be required for the wiring.

Model	Wire Size	Cable(mm²)	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.
- emove 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





Cable suggestion
Cross-section 8-10AWG

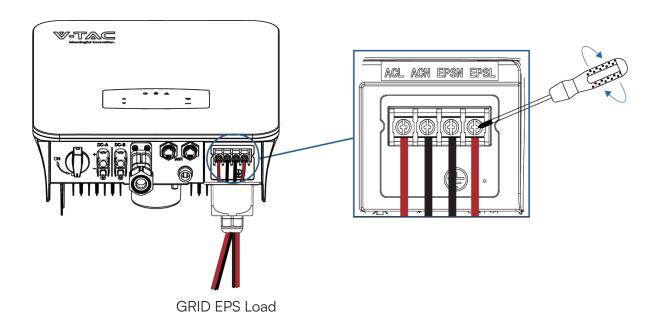
Note:

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

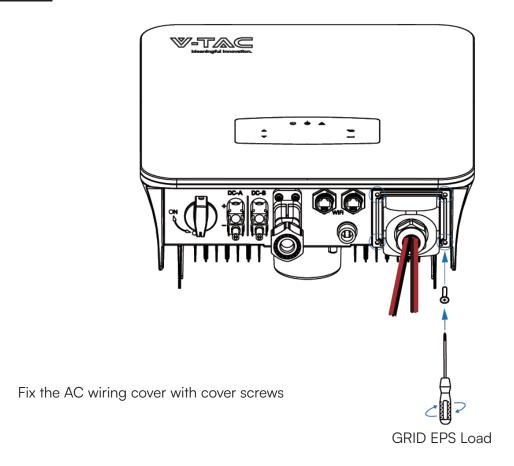


The Max. power load connects to EPS port should not exceed the inverter's EPS Max. output power range.

STEP 2

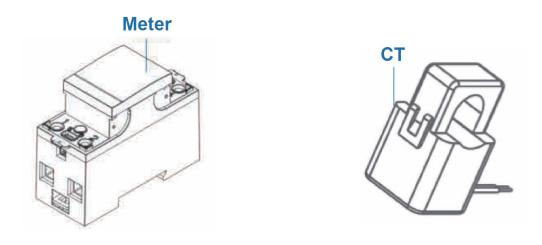


STEP 3

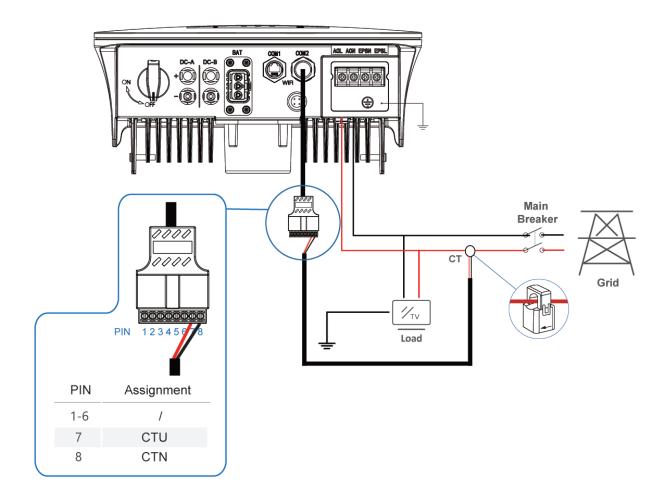


CT or Meter Connection

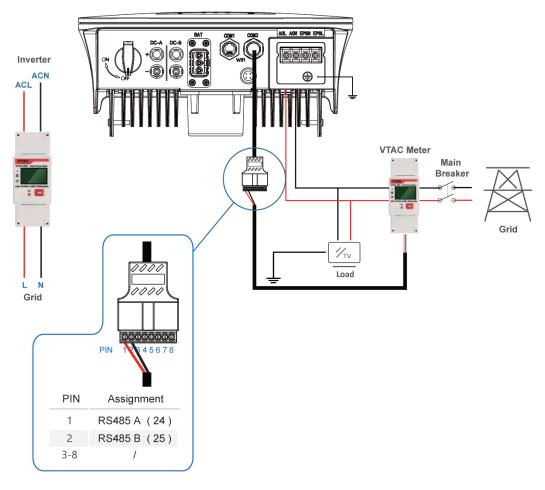
Meter and a current sensor(CT for short below) are used to detect current power direction of the local load and the grid. The output control function of the inverters will be activated based on the detected data.



Install the CT



Install the Meter



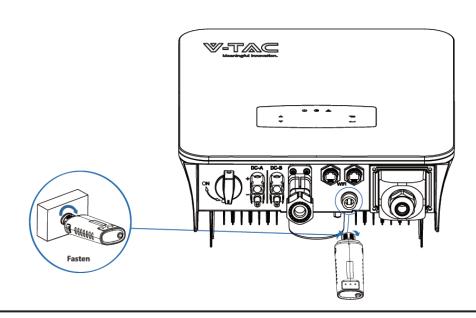
Communication Connection

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

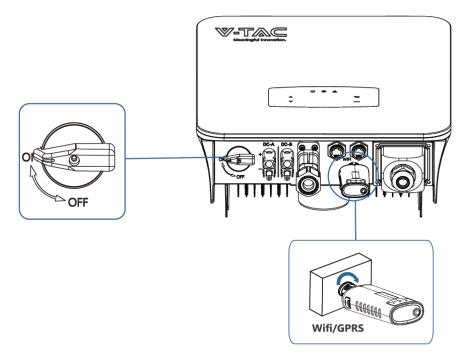
Install the WIFI / Ethernet / GPRS / RS485 Communication

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





STEP 2



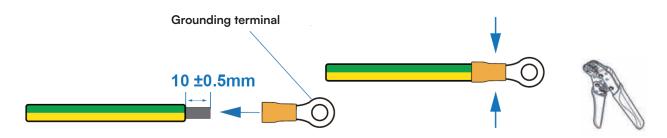
Turn on the DC switch and AC circuit breaker, and wait until the LED indicator on the monitoring module flashes, indicating that the monitoring module is successfully connected.

Earth Connection



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

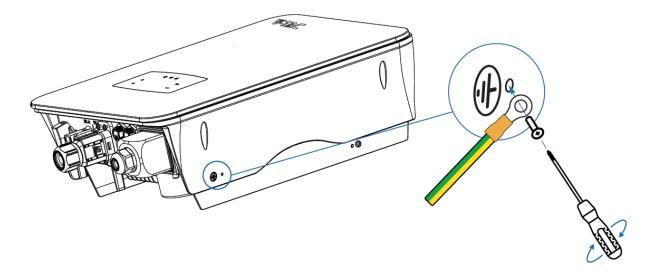
STEP 1





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

STEP 2



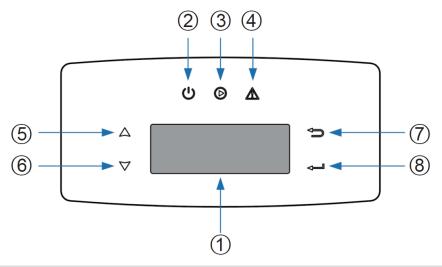
Fix the grounding screw to the grounding connection of the machine housing.



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

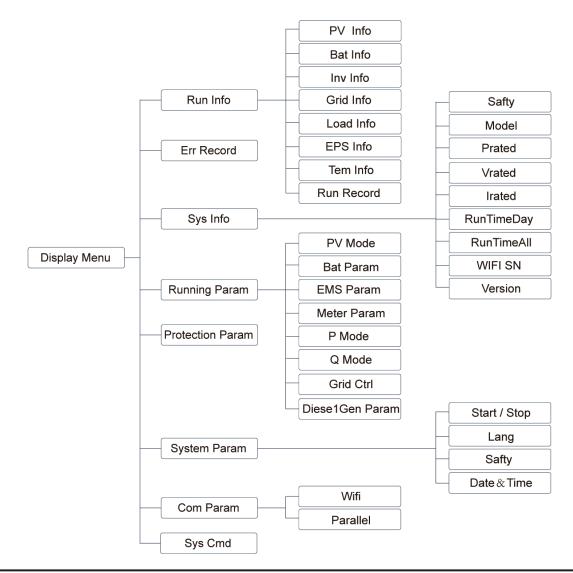
Note:

Hold UP/DOWN button can be rolling quickly.

SIGN	POWER	COLOR	EXPLANATION		
POWER OFF		Green	The inverter is stand-by		
			The inverter is power off		
ODID	ON	Green	The inverter is feeding power		
GRID	OFF		The inverter is not feeding power		
FALILE	ON	Red	Fault occurred		
FAULT -	OFF		No fault		

Menu Overview

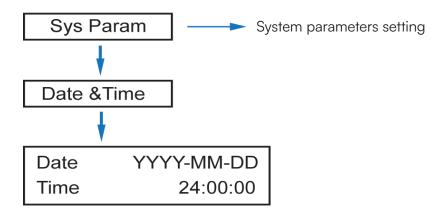
3.6kW hybrid inverter has a LCD for clearly operating, and menu of the LCD can be presented as following:



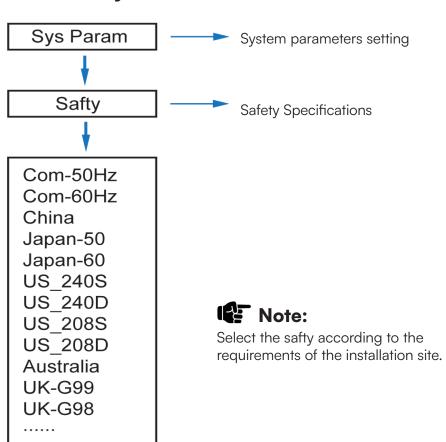
Inverter Setting

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

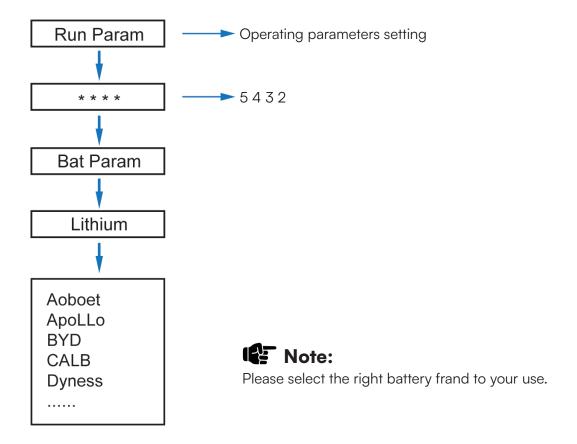
Time & Date



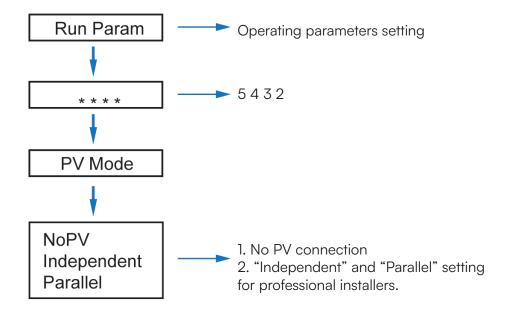
5.3.2 Safety



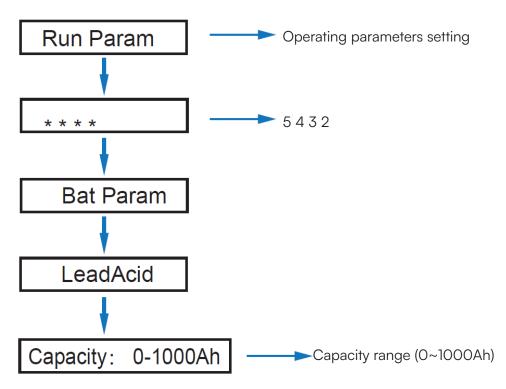
Lithium Battery



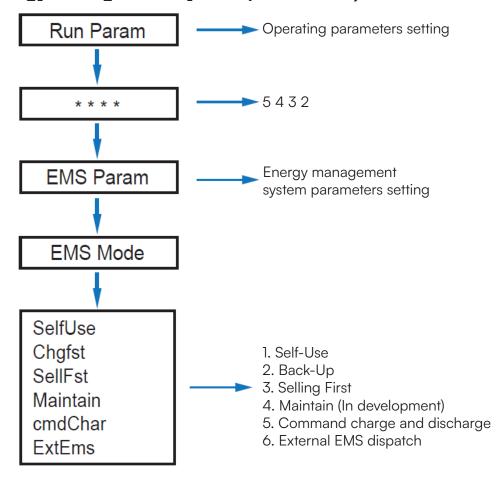
PV Mode



Lead Acid



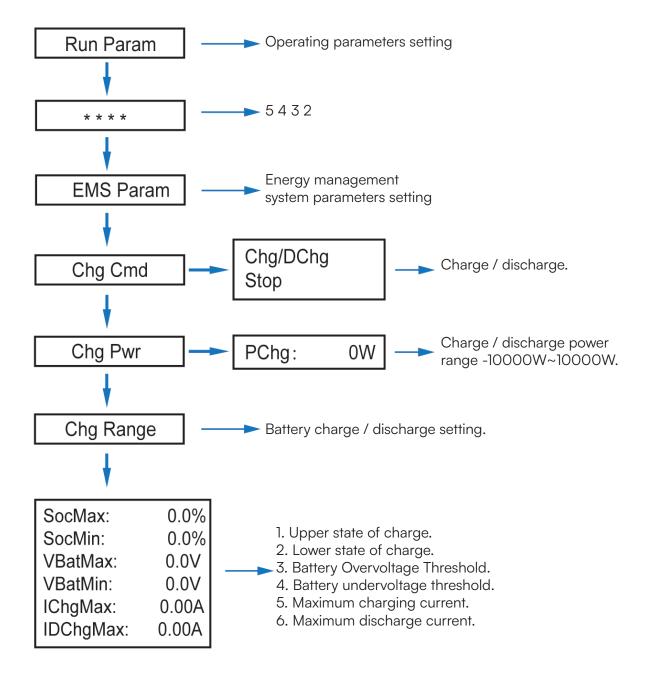
Energy Management System (EMS Param)





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

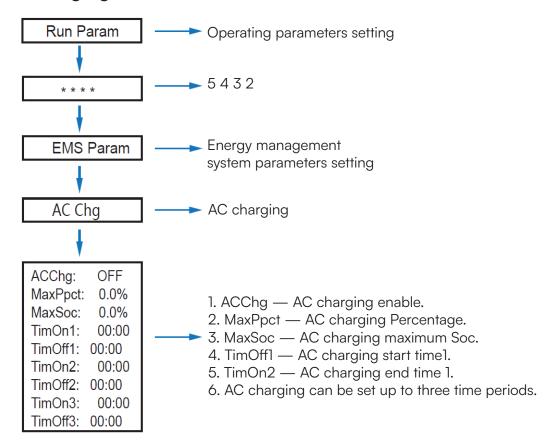
Time of Use



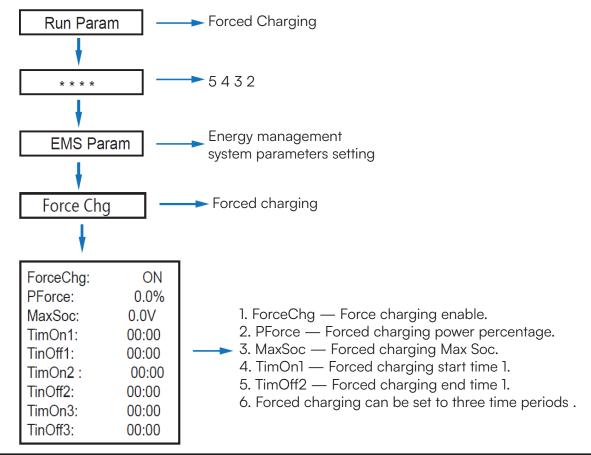
Note:

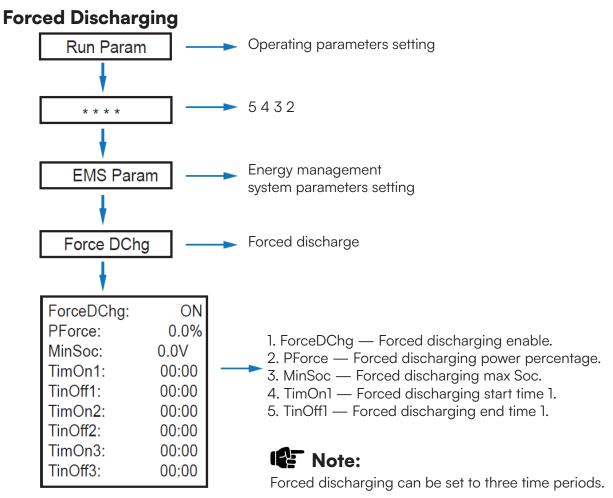
Timed charge and discharge need to complete the three settings of "Chg Cmd", "Chg Pwr" and "Chg Range", otherwise it will not work properly.

AC Charging

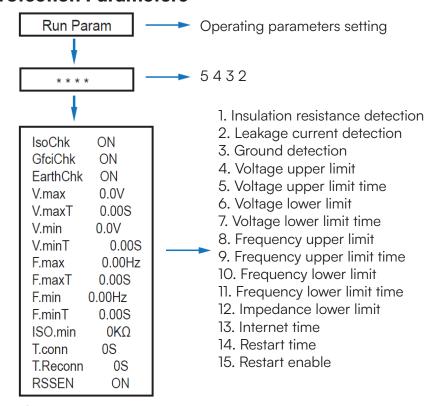


Forced Charging





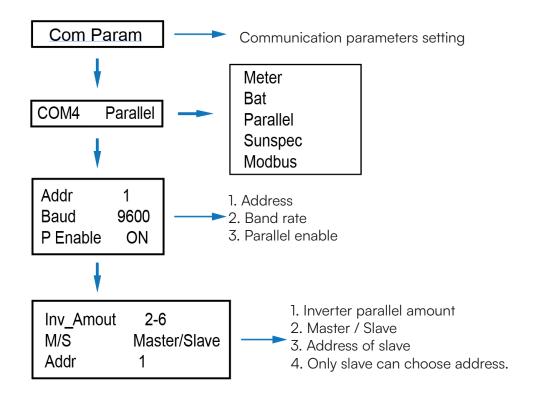
Protection Parameters



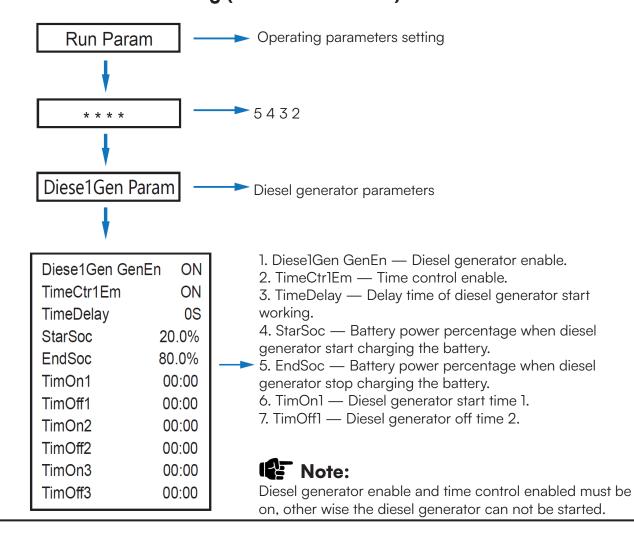


When modifying parameters, you need to pay attention to the unit.

Multi-machine in Parallel



Diesel Generator Setting (Diesel 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.



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
	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 contin ously 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 contin ously and frequently, please ask help for local distributors.
	A04	Pv1OverVoltFault		• Reconfiguration of PV strings, reduce the PV number of a PV string to reducing inverter PV input voltage.
	A05	Pv2OverVoltFault		
PV FAULT	A06	Pv3OverVoltFault		
	A07	Pv4OverVoltFault	PV Voltage over	
	A08	Pv5OverVoltFault		
	A09	Pv6OverVoltFault		
	A10	Pv7OverVoltFault		
	A11	Pv8OverVoltFault		Suggestion that contacting with local
	A12	Pv9OverVoltFault		distributors.
	A13	Pv100verVoltFault		
	A14	Pv11OverVoltFault		
	A15	Pv12OverVoltFault		
	A16	PV1ReverseFault		
	A17 PV2Reve	PV2ReverseFault		
	A18	PV3ReverseFault		Check PV(+) and PV(-) Connect whether reversed
	A19	PV4ReverseFault	PV(+) and PV(-)	
	A20	PV5ReverseFault	reversed Connection	or not. • If reversed, make correc-
	A21	PV6ReverseFault		tion.
	A22	PV7ReverseFault		
	A23	PV8ReverseFault		

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
_	A24	PV9ReverseFault		
	A25	PV10ReverseFault		
	A26	PV11ReverseFault		
	A27	PV12ReverseFault		
	A33	Pv1AbnormalFault		
	A34	Pv2AbnormalFault		
	A35	Pv3AbnormalFault		
	A36	Pv4AbnormalFault		
	A37	Pv5AbnormalFault		
	A38	Pv6AbnormalFault		
	A39	Pv7AbnormalFault		
	A40	Pv8AbnormalFault		
	A41	Pv9AbnormalFault		
PV FAULT	A42	Pv10AbnormalFault		
PVFAULI	A43	Pv11AbnormalFault	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.
	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	erVolt- Battery voltage over or under battery broken • Carry broken • Chec is abnomainte	Check inverters connected battery lines and connectors
	B02	PcsBatUnderVolt- Fault		broken or loose connect.Carry out rectification if broken or loose.
	В03	PcsBatInsOverVolt- Faul		 Checking battery voltage is abnormal or not, then maintenance or change new battery.

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
	ВО4	PcsBatReversed- Fault	Bat. (+) and Bat. (-) are reversed.	 Check Bat.(+) and Bat.(-) connect reversed or not. Make correction If reversed.
	B05	PcsBatConnect- Fault	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 comunication 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	PcsBatTempSenso- rOpen	Battery temperature sensor abnormal	Check battery temperature sensor and connected wires damage or not , then rectifi- cation or change new one.
	B08	PcsBatTempSen- sorShort		
Battery Fault	B09	BmsBatSystemFault		 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 continously and frequently, please ask help for local distributors.
raun	B10	BmsBatVolOver- Fault		
	B11	BmsBatVolUnder- Fault		
	B12	BmsCellVolOver- Fault		
	B13	BmsCellVolUnder- Fault		
	B14	BmsCellVolUn- banceFau	All these faults will be detected or reported	
	B15	BatChgCurOver- Fault	by battery BMS.	
	B16	BatDChgCurOver- Fault		
	B17	BatTemperature- OverFa		
	B17	BatTemperature- OverFa		
	B18	BatTemperatureUn- derF		

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
	B19	CelTemperature- OverFa		
	B20	CelTemperatureUn- derF		
	B21	BatlsoFault		
	B22	BatSocLowFault		
	B23	BmsInterComFault		
	B24	BatRelayFault		
	B25	BatPreChaFault		
	B26	BmsBatChgMos- Fault		
	B27	BmsBatDChgMos- Fault		
	B28	BMSVolOVFault		
	B29	BMSVolLFault		
	B30	VolLockOpenFault		
	B31	VolLockShortFault		
Battery	B32	ChgRefOVFault		
Fault	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	GridUnbalanVolt- Fault	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. connetors and cable normal or not.
	C03	GridInstOverVolt- Fault	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.

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
	C04	Grid10MinOverVolt- Fault	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
Battery	C06	GridUnderVoltFault	Grid voltage under	automatically when the grid three phase
Fault	C07	GridLineOverVolt- Fault	Grid line voltage over	return to normal.
	C08	GridLineUnderVolt- Fault	Grid line voltage under	Contact with local distributor or required grid company adjust voltage protection parameters.
	C09	GridOverFreqFault	Grid Frequency over	The inverter will restart auto-
	C10	GridUnderFreqFault	Grid Frequency under	matically when the grid three phase return to normal. • Contact with local distributor or required grid company adjust frequency protection parameters.
	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.
Off-grid Fault	D02	GridConflictFault	Grid connected to Back-up terminal	Check the off-grid port connection correct, discon- nect both off grid and grid ports.
	D03	GenOverVoltFault	GenOverVoltFault	Adjust generator running
	D04	GenUnderVoltFault	GenUnderVoltFault	parameters, make the output voltage, frequency in al-
	D05	GenOverFreqFault	GenOverFreqFault	lowed range.
	D06	GenUnderFreqFault	GenUnderFreqFault	If this fault occurs continuously and frequently, please ask help for local distributors.

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
	E01	Pv1HwOverCurrFault		
	E02	Pv2HwOverCurrFault		
	E03	Pv3HwOverCurrFault		
	E04	Pv4HwOverCurrFault		
	E05	Pv5HwOverCurrFault		Power off, then restart (Ref.
	E06	Pv6HwOverCurrFault	PV current over, trig-	Chapter8).
	E07	Pv7HwOverCurrFault	gered by hardware	If those faults occurs continuously and frequent-
	E08	Pv8HwOverCurrFault	protection circuit	ly, please ask help for local
	E09	Pv9HwOverCurrFault		distributors.
	E10	Pv10Hw0verCurr- Fault		
	Ell	Pv11HwOverCurrFault Pv1HwOverCurrFault		
	E12	Pv12HwOverCurrFault		
	E13	Pv1SwOverCurrFault		 Power off, power on then restart. If those faults occurs continuously and frequently, please ask help for local distributors.
	E14	Pv2SwOverCurrFault		
	E15	Pv3SwOverCurrFault	PV current over, triggered by Software logic.	
	E16	Pv4SwOverCurrFault		
DC Fault	E17	Pv5SwOverCurrFault		
	E18	Pv6SwOverCurrFault		
	E19	Pv7SwOverCurrFault		
	E20	Pv8SwOverCurrFault		
	E21	Pv9SwOverCurrFault		
	E22	Pv10SwOverCurrFault		
	E23	Pv11SwOverCurrFault		
	E24	Pv12SwOverCurrFault		
	E33	Boost1SelfCheck(- boost)Fault		
	E34	Boost2SelfCheck(- boost)Fault		Power off, then restart (Ref. Chapter8).
	E35	Boost3SelfCheck(- boost)Fault	PV boost circuit	
	E36	Boost4SelfCheck(- boost)Fault	abnormal when self checking	If those faults continuously and frequently, please ask help for local distributors.
	E37	Boost5SelfCheck(- boost)Fault		neip for focal distributors.
	E38	Boost6SelfCheck(- boost)Fault		

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
	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		
	E46	BusHwOverHalfVolt- Fault	Dua valta sa avar	
	E47	BusSwOverVoltFault	Bus voltage over	Power off, then restart (Ref.
	E48	BusSwOverHalfVolt- Fault		Chapter8). • If those faults continuously and frequently, please ask
	E49	BusSwUnderVoltFault	Bus voltage under as help for local distribut	
DC Fault	E50	BusUnbalancedFault	DC Bus voltage un- balanced	
DOTAGII	E51	BusBalBridge HwOverCurFault	Bus Controller cur-	 Power off, then restart (Ref. Chapter8). If those faults continuously and frequently, please ask help for local distributors.
	E52	BusBalBridg- eSwOverCurFault	rent over	
	E53	BusBalBridgeSelf- CheckFault	Bus Controller abnormal when self checking	
	E54	BDCHwOverCurr- Fault	DiDO	
	E55	BDCSwOverCurr- Fault	BiDC current over	Power off, then restart (Ref. Chapter8).
	E56	BDCSelfCheckFault	BiDC abnormal as self checking	If those faults continuously and frequently, please ask
	E57	BDCSwOverVoltFault	BiDC voltage over	help for local distributors.
	E58	TransHwOverCurrFault	BiDC current over	
	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.

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION	
	FO1	HwOverFault	All over current/ voltage by protection hardware		
	F02	InvHwOverCurr- Fault	Ac over current by protection hardware	Power off, then restart (Ref.	
	F03	InvROverCurrFault	R phase current over	Chapter8). • If those faults occurs	
	F04	InvSOverCurrFault	S phase current over	continuously and frequent-	
	F05	InvTOverCurrFault	T phase current over	ly, please ask help for local distributors.	
	F06	GridUnbalanCurr- Fault	On-grid current un- balanced		
	F07	DcInjOverCurrFault	DC injection current over		
	FO8	AcOverLeakCurr- Fault	Ac side leakage cur- rent 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. 	
AC Fault	F09	PLLFault	PLL abnormal		
	F10	GridRelayFault	Grid relay abnormal	Power off, then restart (Ref. Chapter8).If those fault occurs contin-	
	FII	UpsRelayFault	Ups relay abnormal		
	F12	GenRelayFault	Generator relay ab- normal	uously and frequently, please ask help for local distributors.	
	F13	Relay4Fault	Relay4 abnormal	1013.	
	F14	UpsROverCurrFault		When off-grid the load	
	F15	UpsSOverCurrFault		start impulse current is over, reduce the start impulse	
	F16	UpsTOverCurrFault	Off-grid output cur- rent over	current load. • Power off, then restart (Ref. Chapter8). • If those fault occurs continuously and frequently, please ask help for local distributors.	
	F17	GenROverCurrFault		Check generator output volt-	
	F18	GenSOverCurrFault	Generator current over	age, frequency is stability, and adjust generator.	
	F19	GenTOverCurrFault	Over	Power off, then restart(Ref.	
	F20	GenReversePower- Fault	Active power injected to generator	Chapter8). • If those fault occurs continuously and frequently, please ask help for local distributors.	

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
	F21	UpsOverVoltFault	Off-grid output volt-	 Power off, then restart (Ref. Chapter8). If those faults occurs continuously and
	F22	UpsUnderVoltFault	age over or under	
AC Fault	F23	UpsOverFreqFault	Off-grid output fre-	
/ to radii	F24	UpsUnderFreqFault	quency over or under	frequently, please ask help
	F25	DcInjOverVoltFault	Off-grid DC injection voltage over	for local distributors.
	G01	PV1CurAdChanFault		
	G02	PV2CurAdChanFault		
	G03	PV3CurAdChanFault		
	G04	PV4CurAdChanFault		
	G05	PV5CurAdChanFault		
	G06	PV6CurAdChanFault		
	G07	PV7CurAdChanFault		
	G08	PV8CurAdChanFault		
	G09	PV9CurAdChanFault		 Power off, then restart (Ref. Chapter8). If those faults occurs continuously and frequent-
	G10	PV10CurAdChanFault		
	G11	PV11CurAdChanFault		
	G12	PV12CurAdChanFault		
	G13	BDCCurrAdChan- Fault		
	G14	TransCurAdChanFault		
System Fault	G15	BalBrigCurAdChan- Fault	Sampling hardware abnormal	
	G16	RInvCurAdChanFault		ly, please ask help for local distributors.
	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	
	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	• Power off, then restart (Ref. Chapter8).	
	G39	CPUAdConflictFault	The sample value between master CPU and slaver CPU inconsistent	If those faults occurs continuously and frequently, please ask help for local distributors.	
System Fault	G40	PowerCalcConflict- Fault	Power value between PV, battery and AC ou put inconsistent		
	G41	EnvirOverTempFault	Installation environ-		
	G42	EnvirLowTempFault	ment temperature over or low	Change or improve the installation environment	
	G43	CoolingOverTemp- Fault	Cooling temperature	temperature, make running temperature suitable.	
	G44	CoolingLowTemp- Fault	over or low	Power off, then restart (Ref. Chapter8).If those faults occurs continuously and frequent-	
	G45	OverTemp3Fault	Temperature3 over		
	G46	LowTemp3Fault	or low	ly, please ask help for local	
	G47	CpuOverTempFault	CPU temperature over	distributors.	
	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. 	
	101	InterFanWarning		Remove foreign matter	
	102	ExterFanWarning		logged in fan.	
Inner Warnning	103	Fan3Warning	Fan abnormal	 If those faults occurs continuously and frequent- ly, please ask help for local distributors. 	

TYPE OF FAULT	CODE	NAME	DESCRIPTION	RECOMMEND SOLUTION
	104	EnvirTempAdChan- Warning		 The warnings are not matter influence. Power off, then restart (Ref. Chapter8).
	105	CoolingTempAd- ChanWarning	Some temperature	
	106	Temp3AdChanWarn- ing	sensors abnormal	If those faults occurs continuously and frequently, please ask help for local distributors.
	107	ExtFlashComWarning	Flash abnormal	
Inner	108	EepromComWarning	Eeprom abnormal	
Warnning	109	SlaveComWarning	Communication between slaver CPU and master CPU abnormal	 Power off, then restart (Ref. Chapter8). If this those faults continuously and frequently, please ask help for local distribu-
	110	HmiComWarning	HMI abnormal	tors.
	111	FreqCalcCon- flictWarning	Frequency value ab- normal	
	112	UnsetModel	Running model is not initial	Contact with local distributor.
Outside Warnning	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.
	JO2	MeterCon- nectWarning	Wires connecting type of meter wrong	 Check Meter/CT connection, installed place, and installed dire tion. 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
	J04	GndAbnormal- Warning	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.
Outside Warnning	JO5	ParallelComWarn- ing	Communication be- tween master invert- er 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.

SPECIFICATIONS

01 2011 107 1110110	
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
GENRAL 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



WEEE Number: 80133970

INSTRUCTION MANUALWIFI 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 quidance. 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.

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SOLARMAN Smart **Energy Assistant Around You**



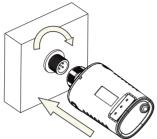
SOLARMAN Business One-Stop O&M, After Service Management Software

IOS: Search "VTAC Smart HOME" or "VTAC Smart PRO" in Apple Store. Android: Search "VTAC Smart HOME" or "VTAC Smart PRO" 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	Light off: Connection to the router failed. On 1s/Off 1s(Slow flash): Connection to the router succeeded. Light keeps on: Connection to the server succeeded. On 100ms/Off 100ms(Fast flash): Distributing network fast.
COM	Communication with inverter	Light keeps on: WIFI Module connected to the inverter. Light off: Connection to the inverter failed. 3.On 1s/Off 1s(Slow flash): Communicating with inverter.
READY	WIFI Module running status	Light off: Running abnormally. On 1s/Off 1s (Slow flash): Running normally. 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 guery after power-on for 2mins at least.)

NET	СОМ	READY			
NET	COM	READY	Fault Description	Fault Cause	Solution
Any state	OFF	Slow flash	Communication with inverter abnormal	1.Connection betw- een 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.	
Long press 10s		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.

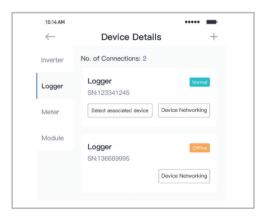
Go to "Plant Details"-"Device List", find the target SN and click "Networking".

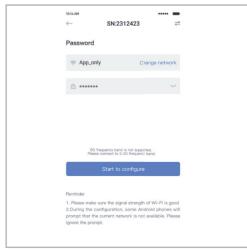
Step 1:Confirm Wi-Fi Info Please make sure your phone has connected to the right WiFi network. And click "Start".

Notice: 5G WiFi is not supported.



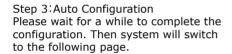






Step 2:Connect to AP network Click "Go to connect" and find the right "AP_XXXXX" network (XXXXX Refers to logger SN).

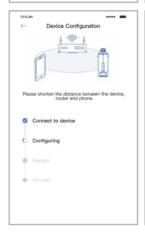
If the password is required, you can find the password on the logger body. Go back to VTAC Smart HOME APP, after connecting to AP network.



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.

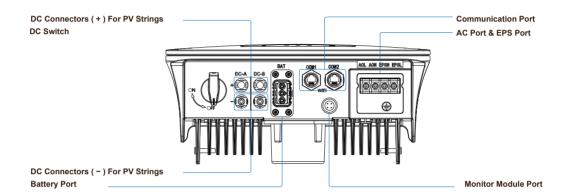
Warning:

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.



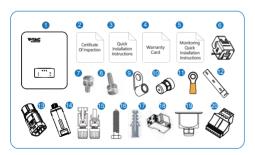
QUICK INSTALLATION GUIDE

OVERVIEW



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	СТ	16	3	Mounting Bracket Screw
7	4	AC Wiring Cover Screw	17	3	Plastic Expansion Tube
8	1	Security Screw	18	1	Smart Meter (Opitional)
9	4	AC Wiring Terminal	19	1	AC Waterproof Cover
10	2	Communication Connectors	20	1	Communication Adapter



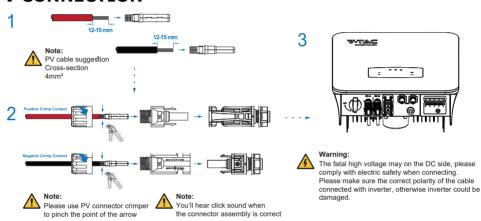
User Manual QR CODE

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

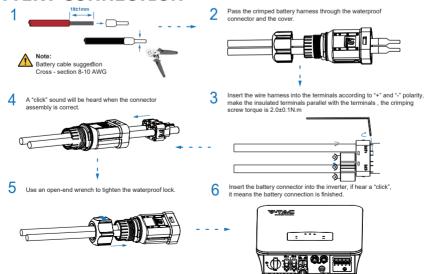
MOUNTING

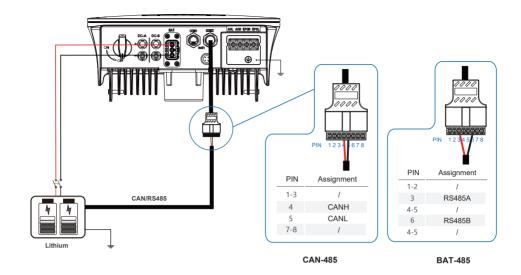


PV CONNECTION

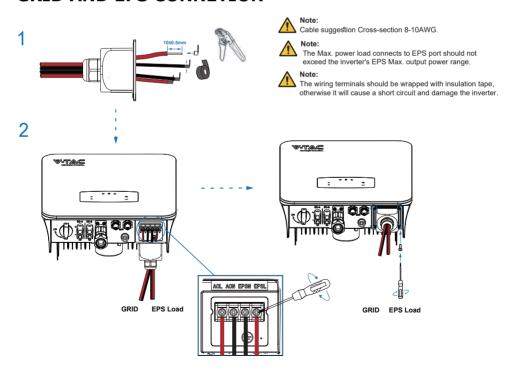


BATTERY CONNECTION

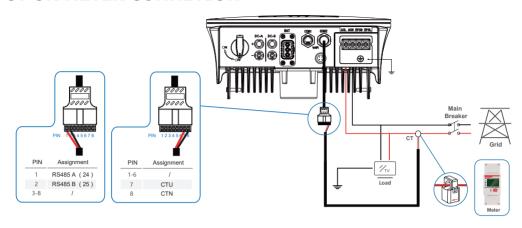




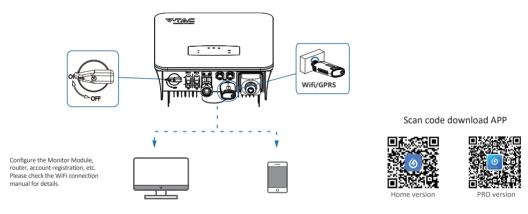
GRID AND EPS CONNETION



CT OR METER CONNETION



WIFI CONNECTION



GROUND CONNECTION

