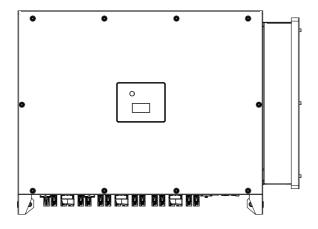
USER MANUAL

Three-phase Grid-tied PV String Inverter



75K/100K/110K/125K/125K-H

Version: EN-UM-1.3

HISTORY

VERSION	ISSUED	COMMENTS
1.0	23-Nov22	First release
1.1	30-Jan23	Update the warning code; update the LED description; update the APP section and update the specifications.
1.2	27-Mar23	Update troubleshooting; update the structure of whole manual; update Chapter 5 and update the details of description.
1.3	12-Apr23	Update installation modes.

Preface

About This Manual

This manual describes the installation, connection, the use of APP, commissioning and maintenance etc. of Three-phase Grid-tied PV String Inverter. Please first read the manual and related documents carefully before using the product and store it in a place where installation, operation and maintenance personnel can access it at any time. The illustration in this user manual is for reference only. This user manual is subject to change without prior notice. (Specific please in kind prevail.)

Target Group

Three-phase Grid-tied inverters must be installed by professional electrical engineers who have obtained relevant qualifications.

Scope

This manual is applicable to following inverters:

· 75K/100K/110K/125K/125K-H

Conventions

The following safety instructions and general information are used within this user manual.

DANGER	Indicates an imminently hazardous situation which, if not correctly followed, will result in serious injury or death.
MARNING WARNING	Indicates a potentially hazardous situation which, if not correctly followed, will result in serious injury or death.
CAUTION	Indicates a potentially hazardous situation which, if not correctly followed, could result in moderate or minor injury.
NOTICE NOTICE	Indicates a potentially hazardous situation which, if not correctly followed, could result in equipment failure to run, or property damage.
NOTE	Call attention to important information, best practices and tips: supplement additional safety instructions for your better use of the Threephase Grid-tied inverter to reduce the waste of you resource.

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8. Technical Specifications

1. Safety

Before using the inverter, please read all instructions and cautionary markings on the unit and manual. Put this manual to a place where you can take it easily. Ours Three-phase Grid-tied PV String Inverter strictly conforms to related safety rules in design and test. Please follow the local laws and regulations during installation, operation and maintenance. Incorrect operation may cause injury or death to the operator or a third party, and damage to the inverter and other properties belonging to the operator or a third party.

1.1 Safety Instructions

Risk of electric shock



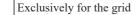
The device contains high voltages, both alternating and direct, and high leakage currents may be generated during operation. To avoid risk of electric shock during maintenance or installation, make sure that all DC and AC connection terminals are disconnected. First connect the grounding wire to grounding and disconnect it for maintenance. Check proper phase and neutral connection. If the unit is used without following the specifications of the manufacture, the protection provided by the equipment may be impaired. Disconnect the inverter from the grid and from the photovoltaic generator before cleaning PV strings. An unexpected capacitive current from the surface of the strings may surprise operator and cause them to fall from the roof.



Hanging the PV inverter



The PV inverter must only be handled by qualified service personnel. When the PV generator is exposed to sufficient light intensity, it generates a DC voltage and, when connected to the device, it charges the bulk capacitor. After having disconnected the PV inverter from the grid and the PV generator, an electric charge may remain in the bulk capacitor. Please wait at least 10 minutes after disconnecting from the grid before handing.





The PV inverter is designed for the sole purpose of converting from PV strings and injecting it into the grid. This inverter is not designed to be powered by sources of primary energy other than PV strings or to be connected to different loads other than the public grid.



Hot surfaces

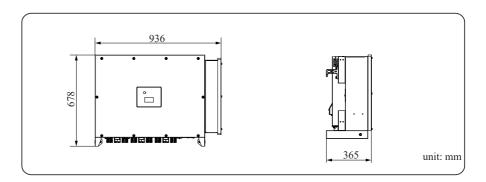
Although it has been designed in accordance with international safety standards, the PV inverter may become hot during operation.

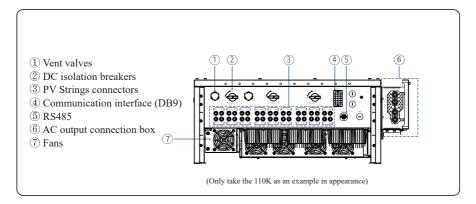
1.2 Safety Precaution

- a. Installation, maintenance and connection of inverters must be performed by qualified personnel, in compliance with local electrical standards, wiring rules and requirements of local power authorities and/or companies.
- b. To avoid electric shock, DC input and AC output of the inverter must be terminated at least 10 minutes before performing any installation or maintenance.
- c. The temperature of some parts of the inverter may exceed 60°C during operation. Do not touch the inverter during operation to avoid being burnt.
- d. Ensure children are kept away from inverters.
- e. Take appropriate measures to avoid electric shock.
- f. Don't open the front cover of the inverter. Apart from performing work at the wiring terminal, touching or changing components without authorization may cause injury to people, damage to inverters and annulment of the warranty.
- g. Ensure the output voltage of the proposed PV array is lower than the maximum rated input voltage of the inverter; otherwise the inverter may be damaged and the warranty annulled.
- h. When exposed to sunlight, the PV array generates dangerous high DC voltage. Please operate according to our instructions, or it will result in danger to life.
- i. Prohibit inserting or pulling the AC and DC terminals when the inverter is running..

2. Product Introduction

2.1 Outline and Dimensions





2.2 Route connection for PV strings installation

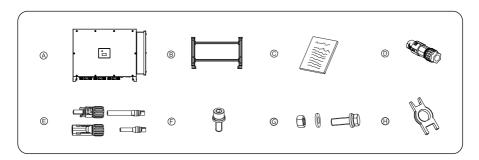
Route connecting for the installation of PV strings per inverter model is shown in below table:

100K totally 16 routes; 75/110K/125K/125K-H totally 18 routes.

Model	MPPT1	MPPT2	MPPT3	MPPT4	MPPT5	МРРТ6	MPPT7	MPPT8	MPPT9
100K	2routes								
75K/110 125K/125-H	2routes								

3. Installation

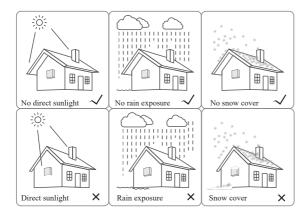
3.1 Packing list



Items	Deliverables
A	The inverter
В	Mounting bracket
С	File package
D	RS485 connector
Е	PV terminal connector group
F	M8 screws
G	M12 Bolt group (including screw, nut) *4 (reserved for tightening the support and mounting bracket)
Н	Removal tool for DC connectors

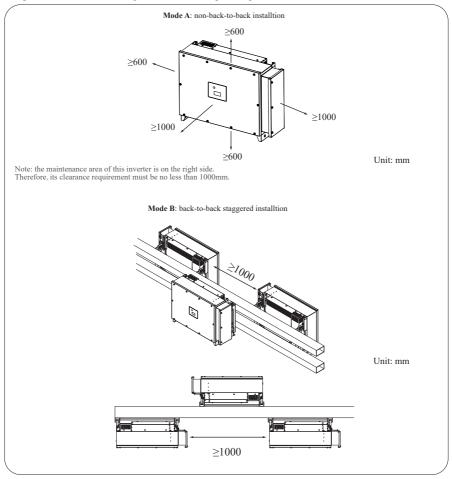
3.2 Selecting the Mounting Location

- 3.2.1 Installation Environment Requirements
- a. With an IP65 protection rating, the inverter can be mounted indoors or outdoors.
- b. The mounting location must be inaccessible to unrelated personnel since the enclosure and heat sinks are extremely hot during operation.
- c. Do not install the inverter in areas containing highly flammable materials or gases.
- d. To ensure optimum operation and long service life, the ambient temperature must be below 50°C.
- e. The inverter must be mounted in a well-ventilated environment to ensure good heat dissipation.
- f. To ensure long service life, the inverter must not be exposed to direct solar irradiation, rain, or snow. It is recommended that the inverter be mounted in a sheltered place.
- g. The carrier where the inverter is mounted must be fire-proof. Do not mount the inverter on flammable building materials.
- h. Do not install the inverter in a rest area since it will cause noise during operation.
- The installation height should be reasonable, and please make sure it is easy to operate and view the display.
- j. Product label and warning symbols shall be clear to read after installation.
- k. Please avoid direct sunlight, rain exposure, snow cover.



3.2.2 Installation Space Requirements

Reserve enough clearance around the inverter to ensure sufficient space for installation and heat dissipation. Different mounting modes and their space requirements are shown as below.



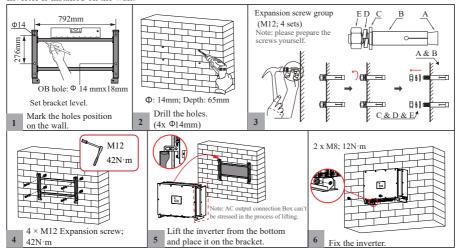
3.2.3 Support-mounting Inverter



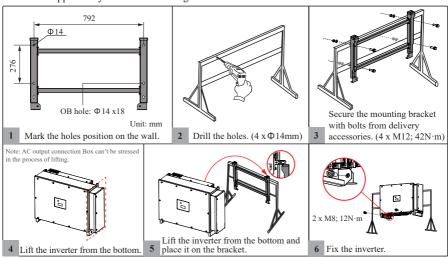
- 1. The walls must be fire-proof and non-flammable materials, otherwise there is a fire risk.
- 2.Before drilling holes, check whether there are electrical pipes or other pipes buried in the walls to avoid risks.

Inverter is installed on the wall or support by means of mounting bracket. If the inverter is installed on the wall, the load-bearing capacity of the wall must be greater than 10KN/m^2 . M12 x 60mm stainless steel pressure-burst expansion bolts are recommended in wall-mounted installation.

Inverter is installed on the wall.



Inverter is supported by means of mounting bracket.



Installation Self-check

- 1. Ensure that the inverter is well fixed.
- 2. Ensure that the inverter is locked on the support with an anti-theft lock installed.

4. Electrical Connection

4.1 Safety Caution

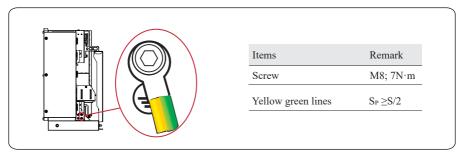
DANGER	Before performing any electrical connections, ensure that both DC and AC switches are OFF. Otherwise, fatal injury can occur due to the high voltage.
CAUTION	Grounding the PV strings needs below prerequisites.

An isolation transformer must be installed on the AC side of each inverter. Ensure that the neutral wire of the isolation transformer must be disconnected from the PGND cable.

One isolation transformer is with one PV inverter: do not install a single isolation transformer for multiple inverters. Otherwise, circulating current generated by the inverters will lead to operation failure.

4.2 Electrical Connections

4.2.1 Connecting External PGND Cables



NOTE

S: cross-sectional area of AC cable

S_P: cross-sectional area of PE cable

The S_P value is valid only when the PE cable and the AC cable are of the same material.



Connecting External Protection Ground (PGND) Cables can not substitute the PE of connecting the AC power cables. Ensure that both connecting are grounding well. Otherwise, warranty will be void if damage is caused by electrical connection faults.

4.2.2 Connecting AC Output Cables

AC circuit breaker

Connect the inverter with the power grid through installing one AC circuit breaker whose rated current is no less than 250A. Residual current protection function of square matrixes internally installed in the inverter and you can set leakage current protection value no less than the corresponding value in below table, if local utility department require leakage current protection function for AC circuit breaker. That set can save the inverter from its performance failure.

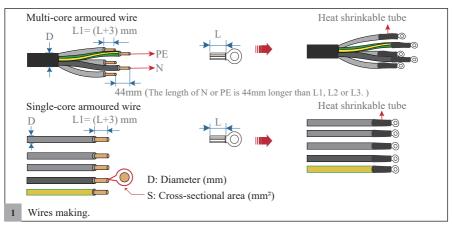
Inverter Model	Residual current
100K	≥1110mA
75K/110K	≥1230mA
125K/125K-H	≥1390mA

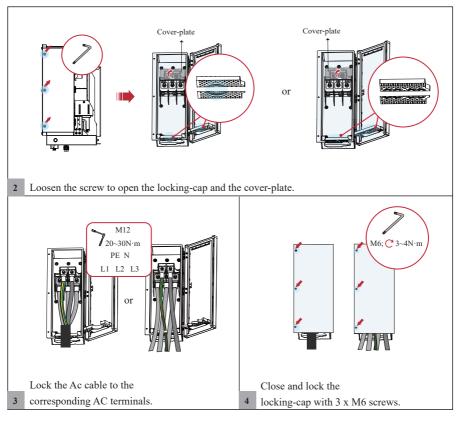
AC Cable Requirements:

Cable	Type	S (mm ²)	D (mm)
AC cable (Multi-Core)	Outdoor triple-core cable (L1, L2, L3) Outdoor four-core cable (L1, L2, L3, PE) Outdoor five-core cable (L1, L2, L3, PE, N)	Copper wire cable -S: 70mm²-240mm² -SP≥S/2 Aluminum wire cable -S: 95mm²-240mm² -SP≥S/2	24mm~69mm
AC cable (Single-Core)	Five single-core outdoor cables	Copper wire cable -S: 70mm²-240mm² -Sp≥S/2 Aluminum wire cable -S: 95mm²-240mm² -Sp≥S/2	14mm~32mm



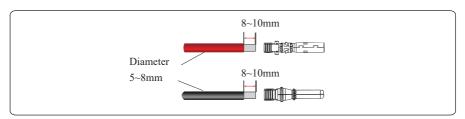
For your operation and safety sake, please prepare multi-stranded wire, crimping terminals and a proper crimping tool before AC wiring.





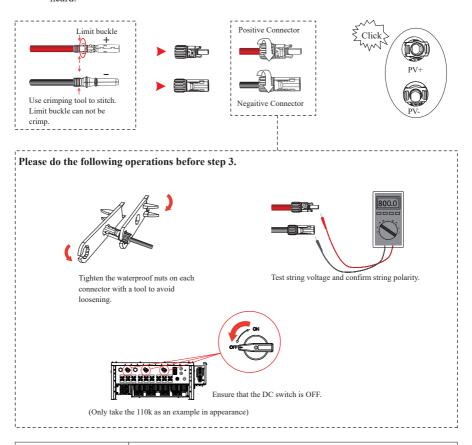
4.2.3 Connecting the PV Strings

Step 1 Remove an appropriate length of the insulation layer from the positive and negative power cables using a wire stripper, as shown in below image.



Step 2 Insert the exposed areas of the positive and negative cables into the metal terminals of the positive and negative connectors respectively and crimp them using a them using a crimping tool. Then insert the crimped positive and negative cables into the corresponding corresponding positive and negative connectors.

Step 3 $\,$ Insert the positive and negative connectors into the PV+/PV-port until a "click" sound is heard.

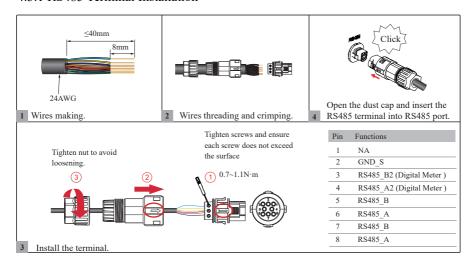




When taking out DC connectors, please ensure that PV Strings are disconnected. Otherwise, a fire can occur.

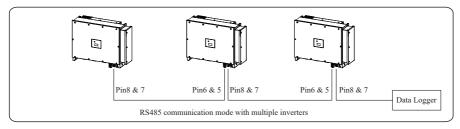
4.3 Connecting RS485 Communication Cables

4.3.1 RS485 Terminal Installation



4.3.2 RS485 communication mode with multiple inverters

Connect the differential positive and negative signal wires of the first RS485 cable from the data logger to Pin8 and Pin7 of the 8-Pin terminal respectively. If there is more than one inverter, connect Pin6 and Pin5 to Pin8 and Pin7 of another inverter.

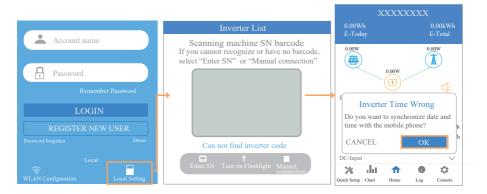


4.3.3 RS485 communication mode with multiple inverters

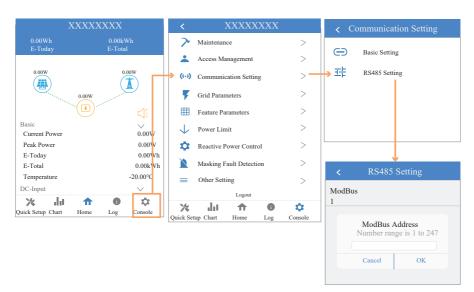
- ① Download the APP in either of the following ways
 - Scan the QR code on the inverter to download the APP
 - Download the APP from the App Store or Google Play.

Note: You need to grant all access rights in all pop-up windows when installing the APP or setting your phone.

- ② Power on the inverter.
- ③ Connect the Inverter. Open the Bluetooth on your own phone, then open the APP. Then follow the instructions below.

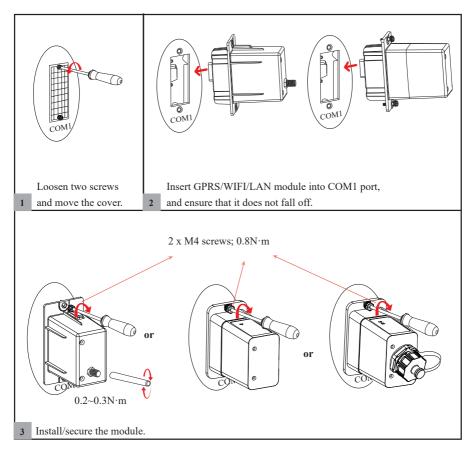


④ Go to Console > Communication Setting > RS485 Setting > Modbus Page, check the Modbus address (the default value is 1), and click to modify the address as required if necessary.



4.4 WIFI/GPRS/LAN Module Installation (Optional)

For details, please refer to the corresponding Module Installation Guide in the packing. The appearance of modules may be slightly different. The figure shown here is only for illustration.



5. System Operation

5.1 System Operation

Switch ON the AC circuit breaker and set the DC SWITCH of the inverter to ON. Observe statuses of grid-connecting light on the inverter for a while. If the lights display that the inverter has entered grid-connecting, it means the inverter is operating well. Any query during operating the PV inverter, call your dealer.

To power OFF the Inverter, switch off the circuit breaker at AC terminal, and set the DC SWITCH to OFF.



After the inverter power is off, the remaining electricity and heat may still cause eletrical shock and burns. Please only begin servicing the inverter 10 minutes after the poweroff.

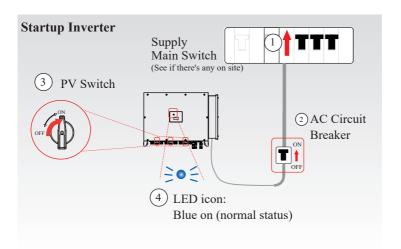
5.2 Startup/Shutdown the System

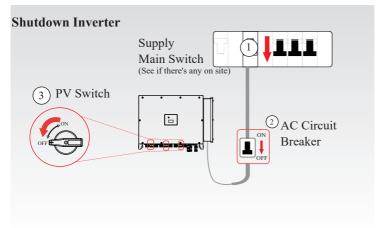
Inspection

1	
No.	Items
1	The inverter is firmly installed.
2	There is enough heat dissipation space, no external objects or parts left on the inverter.
3	It is convenient for operation and maintenance.
4	The wiring of the system is correct and firm.
5	Check whether the DC and AC connections are correct with a multimeter, and whether there is
	a short circuit, break, or wrong connection.
6	Check whether the waterproof nuts of each part are tightened.
7	The vacant ports have been sealed; all gaps at the cable inlet and outlet holes have been
	plugged with fireproof/waterproof materials, such as fireproof mud.
8	All safety labels and warning labels on the inverter are complete and without occlusion or
	alteration.

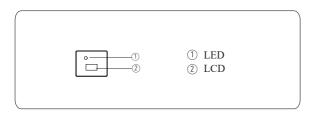


After the inverter is powered off, the remaining electricity and heat may still cause electrical shock and body burns. If need to disconnect the inverter cables, please wait at least 10 minutes before touching these parts of inverter.





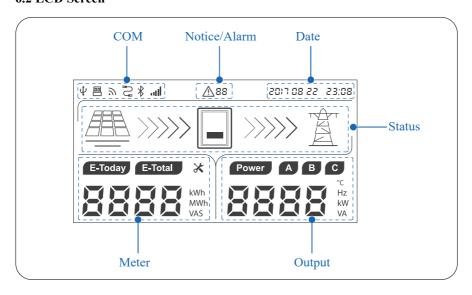
6. Interface



6.1 LED Indicator

LED status	Descriptions
Blue led blink slowly 1s/time	Standby or startup state (not connected to the grid)
Blue led on	Grid-tied status
Green led on	Power limited status
Red led blink slowly 1s/time	Output side fault
Red led blink quikly 0.25s/time	Input side fault
Red led on	System internal fault
Red/Green/Blue light alternately (1 color /0.25s)	Burning code(Master/Slave) Control power set up (lasts 1 second) LED self-check status
White led (three leds all on) blink quickly 0.25s/time	CSB and DSP communication abnormal (only AC poweron)

6.2 LCD Screen



6.3 LED status and Warning code

Status	Details	Warning code
	Grid over voltage	A0
	Grid under voltage	A1
Red blink	Grid absent	A2
slowly	Grid over frequency	A3
1s/time	Grid under frequency	A4
	Grid abnormal	A6
	Grid high average voltage	A7
	Grid N abnormal	A8
	PV over voltage	В0
Red	PV Insulation resistance abnormal	B1
blink	Leakage current abnormal	B2
quickly	PV Strings reverse	В7
0.25s/time	PV under voltage	B4
	Control power abnormal	C0
	Arc fault	C1
	High DC component of output current	C2
	Inverter relay abnormal	С3
	Inverter over temperature	C5
	Leakage current HCT abnormal	C6
	System type error	C7
Red on	DC link voltage unbalanced	С9
	DC link over voltage	CA
	Internal communication error	СВ
	Software incompatibility	CC
	EEPROM error	CD
	Consistent warning	CE
	Inverter abnormal	CF
	Boost abnormal	CG
	Master Lost	СН
	Meter lost	CJ
Blue	Fan abnormal	C8
blink slowly 1s/time	Remote off	CN

Note: If you select a machine with a LCD screen, the warning code will be displayed on the LCD screen. Non-lcd screen models need to enter the app to view the corresponding warning code.

7. Maintenance

Check periodically heat sink and the inlet/outlet of external FAN, clean them, and ensure that they are free dust and blockage. If any abnormal with the FAN, please replace it.

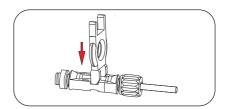
7.1 Routine Maintenance

Items	Check Content	Maintain Content	Maintenance Interval
Inverter output status	Statistically maintain the status of electrical yield, and remotely monitor its abnormal status.	N/A	Weekly
PV inverter cleaning	Check periodically that the heat sink is free from dust and blockage.	Clean periodically the heat sink.	Yearly
PV inverter running status	Check that the inverter is not damaged or deformed. Check for normal sound emitted during inverter operation. Check and ensure that all inverter communications are running well.	If there is any abnormal phenomenon, replace the relevant parts.	Monthly
PV inverter electrical connections	Check that all AC, DC and communication cables are securely connected; Check that PGND cables are securely connected; Check that all cables are intact and free from aging.	If there is any abnormal phenomenon, replace the cable or re-connect it.	Semiannually

7.2 Inverter Uninstall

Inverter uninstall requires below procedures:

Step1 Disconnect all electric connections including these of communications cables, DC input cables, AC output cables and the PGND cables.



When uninstalling DC input connectors, insert removal wrench into the bayonet shown in the Figure, press the wrench down, and take out the connector.

- Step 2 Remove the inverter from its rear panel.
- Step 3 Remove the rear panel.



Before uninstalling DC input connector, please ensure that the DC SWITCH is set to OFF to avert equipment damage or personal injury.

7.3 Inverter troubleshooting

If any abnormal phenomena occur, refer to below table for trouble shooting. If failed, call your dealer for help.

Issue	Solution
No display	Check DC switch of inverter is on or off If there is PV combiner box, check fuse, terminal, wires
No generation	Check AC breaker is on or off Wait stronger sunshine Check the number of PV panel To operate according to inverter's manual
Inverter abnormal	Disconnect both AC and DC breakers Wait as less 10 minutes and switch on AC and DC breaker Check whether inverter run normally or not
Power generation is less than expected	Ensure that inverter is free from direct sun expose and good ventilation Check that inverter isn't dust clogging, fans run normally Ensure enough installation distance between inverters

Alarm Information	Measures Recommended				
A0-Grid over voltage	1. If the alarm occurs accidentally, possibly the power grid is abnormal accidentally. No extra action is needed. 2. If the alarm occurs repeatedly, contact the local power station. After receiving approval of the local power bureau, revise the electrical protection parameters setting on the inverter through APP. 3. If the alarm persists for a long time, please confirm: 1) The AC circuit breaker does not jump frequently (the instantaneous high pressure); 2) If the line of communication is followed by the user manual, the cable impedance will cause the power grid to rise; 3) The three-phase machine measures whether the voltage between the zero line and the ground line exceeds 30V; More than the wiring of the grid; If there is no problem, please contact the customer service center.				
A1-Grid under voltage	1.If the alarm occurs accidentally, possibly the power grid is abnormal accidentally. No extra action is needed. 2.If the alarm occurs repeatedly, contact the local power station. After receiving approval of the local power bureau, revise the electrical protection parameters setting on the inverter through APP. 3.If the alarm persists for a long time, please confirm: 1) AC circuit breaker is disconnect or not; 2) Whether the AC circuit breaker is damaged (whether the voltage in the closed state is consistent with the voltage of the outlet); 3) The AC terminals are in good contact. If the actual measuring voltage is within the specification range, please contact the customer service report repair.				
A2-Grid absent	If the alarm occurs accidentally, possibly the power grid is abnormal accidentally. No extra action is needed. 2. If the alarm occurs repeatedly, contact the local power station. After receiving approval of the local power bureau, revise the electrical protection parameters setting on the inverter through APP. 3. If the alarm persists for a long time, please confirm: 1) AC circuit breaker is disconnect or not; 2) Whether the AC circuit breaker is damaged (whether the voltage in the closed state is consistent with the voltage of the outlet); 3) The AC terminals are in good contact; 4) Whether the power supply line failure. If exclude all possibility, please contact the customer service report repair.				
A3-Grid over frequency	I. If the alarm occurs accidentally, possibly the power grid is abnormal accidentally. No extra action is needed. If the alarm occurs repeatedly, contact the local power station. After receiving approval of the local power bureau, revise the electrical protection parameters setting on the inverter through APP.				
A4-Grid under frequency	1. If the alarm occurs accidentally, possibly the power grid is abnormal accidentally. No extra is needed. 2. If the alarm occurs repeatedly, contact the local power station. After receiving approval of the local power bureau, revise the electrical protection parameters setting on the inverter through a 3. If the alarm persists for a long time, please contact the customer service center.				
A6-Grid abnormal (Only for three- phase inverter)	If the alarm occurs accidentally, possibly the power grid is abnormal accidentally. No extra action is needed. If the alarm occurs repeatedly, please:				

A7-Grid over mean voltage	2. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer					
A8-Grid N abnorma	service center. 1. If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. 2. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.					
B0-PV over voltage	Check whether the maximum voltage of a single string of input PV modules exceeds the MPPT voltage range. If the maximum voltage is higher than the standard voltage, modify the number of P module connection strings.					
B1-PV insulation abnormal	If the alarm occurs accidentally but the inverter can generate power, check the component and the installation environment of wires are wet or not. Please improve the installation environment. If the alarm occurs repeatedly and the inverter can generate electricity occasionally, check whether the positive and negative polarity of the PV component are short circuit or not. And check the component is damaged or the connection line is broken. If the alarm continues and equipment cannot generate power, please contact customer service vrepair.					
B2-Leakage current abnormal	1. If the alarm occurs accidentally but the inverter can generate power, probably the power grid causes. The inverter can be automatically recovered. No extra action is needed. 2. If the alarm occurs frequently and is accompanied by an insulation impedance alarm. Check the abnormal alarm of the insulation. 3. If the alarm continues and the equipment cannot generate electricity, please contact customer servicereport repair.					
B4-PV under voltage	I. If occurs when the light is weak (such as the early morning or evening, rainy weather and dust storms), the component voltage is lower than normal. No extra action is needed. If there is a weak condition of light, please check whether the group to have a short circuit and open circuit or not.					
B7-PV string reverse	Check and modify the positive and negative polarity of the input of the circuit string.					
C0-Internal power supply abnormal	 If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center. 					
C1-Electric arc abnormal	If the alarm occurs, the inverter cannot work properly. Please contact the customer service center.					
C2-Inverter over dc bias current	1. If the alarm occurs occasionally, the inverter can be automatically recovered. No action is require 2. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.					
C3-Inverter relay abnormal	1. If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. 2. If the alarm occurs repeatedly, the single-phase inverter check whether the live line and neutral line of the contact connection is reversed. The three-phase inverter check the voltage of the live line to neutral line and the voltage of the live line to the ground. If the grid side is normal, please contact the customer service report repair.					
C5-Inverter over temperature	1. If the alarm occurs occasionally, the inverter can be automatically recovered. No action required 2. If the alarm occurs repeatedly, please check whether the installation site for direct sunlight, good ventilation, and high ambient temperature (such as installed on the parapet) or not. If the ambient temperature is lower than 45° C and the heat dissipation is good, please contact the customer service center.					
C6-GFCI abnormal	I. If the alarm occurs occasionally, it could have been an occasional exception to the external wirin The inverter can be automatically recovered. No action required. If it occurs repeatedly or cannot be recovered for a long time, please contact the customer servic center.					
C7-System type error	If the alarm occurs, the inverter cannot work, please restart the inverter. If the alarm continues, please contact the customer service center.					
C9-Unbalance Dc- link voltage	If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.					

CA-Dc-link over voltage	I. If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.			
CB-Internal communication error	If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer servic center.			
CC-Software incompatibility	I. If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.			
CD-Internal storage error	If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.			
CE-Data inconsistency	If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.			
CF-Inverter abnormal	If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.			
CG-Boost abnormal	If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.			
CH-Grid N abnormal	If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact the customer service center.			
CJ-Meter lost	If the alarm occurs, please check the RS485 connection. If it is abnormal, please revise the connection; if it is normal, please contact the customer service center.			
C8-Fan abnormal	If the alarm occurs occasionally, please restart the inverter. If it occurs repeatedly or cannot be recovered for a long time, check whether the external fan is blocked by foreign objects. Otherwise, please contact the customer service center.			

8. Technical Specification

MODEL	100K	110K	125K	125K-H	75K			
Input(PV)								
Max. PV power voltage (V)		1100V			800V			
Rated input voltage (V)		600V 720V			360V			
Max. input current (A)	40A*3+32A*5	40A*3+32A*5 40A*3+32A*6						
Max. short-circuit current (A)	50A*3+45A*5							
Starting voltage/Min. operating voltage		250V/200V						
MPPT operating voltage range		200V-1000V 200V-750V						
Max. numbers of input strings	16(2*8)	16(2*8) 18(2*9)						
Numbers of MPPT input	8							
Output(Grid)								
Rated output power	100kW	110kW	125kW	125kW	75kW			
Max. apparent power	111kVA	123kVA	139kVA	139kVA	82.5kVA			
Max. output current	168.8A	187A	181A	167.3A	197A			
Rated ouput voltage (V)	380/400/415	V/3W+N+PE	400V/3W+N+PE	480V/3W+N+PE	208/220/240V/3W+N+PE			
AC voltage range	1	87V-300V/322V-520	V	236V-319V/408V-552V	108V-172V/187V-300V			
Rated grid frequency		50Hz/60Hz						
Grid frequency range		45Hz-55Hz/55Hz-65Hz						
THDI		<3% Rated power						
DC current injection		<0.5%In						
Adjustable power factor range		>0.99@	full load power (adjuest	able 0.8LG-0.8LD)				
Protection								
DC switch	C switch Support							
Anti-islanding protection		Support						
AC Overcurrent protection		Support						
AC short circuit protection		Support						
DC reverse connection		Support						
Overvoltage category		DC TypelI; AC Type II						
Insulation impedance detection		Support						
Leakage current protection		Support						
General								
Topology		Non-transformer						
Protection grade		IP66						
Power consumption at night		<5W						
Cooling type		Air-cooling						
Operating temperature range		-25°C-60 °C (Maximum 45°C derating)						
Operating relative humidity range		0~100%						
Max. operation altitude		4000m						
Noise emission (Typical)		65dB(air-cooling)						
Dimensions (W*H*D)		936*678*365						
Weight (kg)	91.5Kg	91.5Kg 92Kg						
Display & Communication Display								
Communication		LED/LCD(Optional)						
Communication		Bluetooth&WiFi, RS485/GPRS/4G (Optional)						