

Please adhere to the actual products in case of any discrepancies in this user manual. If you encounter any problem on the inverter, please find out the inverter S/N and contact us, we will try to respond to your question ASAP.





Solis S6 Three Phase Inverter

S6-GC3P(25-36)K03 Installation and Operation Manual

Ver 1.2

Ginlong Technologies Co., Ltd.

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1. Introduction

1.1 Product Description

Solis three phase inverter is suitable for utility-scale PV projects . This manual covers the three phase inverter model listed below: S6-GC3P25K03-NV-ND, S6-GC3P30K03-NV-ND, S6-GC3P33K03-NV-ND, S6-GC3P36K03-NV-ND, S6-GC3P40K03-HV-ND, S6-GC3P15K03-LV-ND, S6-GC3P20K03-LV-ND

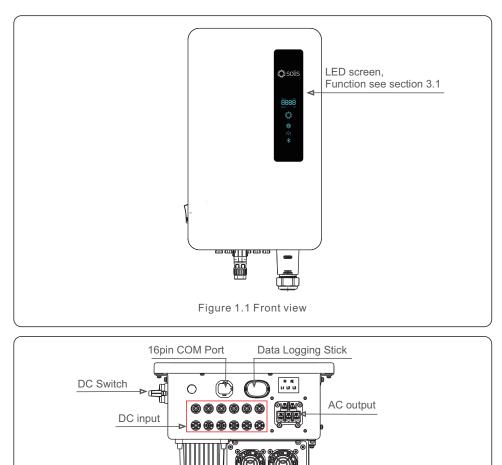
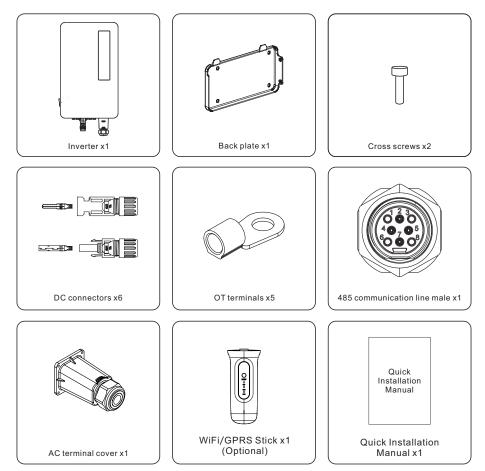


Figure 1.2 Bottom view

1.2 Packaging

When you receive the inverter, please ensure that all the parts listed below are included:



If anything is missing, please contact your local Solis distributor.

2. Safety Instructions

2. Safety Instructions

2.1 Safety Symbols

Safety symbols used in this manual, which highlight potential safety risks and important safety information, are listed as follows:



WARNING:

WARNING symbol indicates important safety instructions, which if not correctly followed, could result in serious injury or death.



NOTE: NOTE symbol indicates important safety instructions, which if not correctly followed, could result in some damage or the destruction of the inverter.



CAUTION:

CAUTION, RISK OF ELECTRIC SHOCK symbol indicates important safety instructions, which if not correctly followed, could result in electric shock.



CAUTION:

CAUTION, HOT SURFACE symbol indicates safety instructions, which if not correctly followed, could result in burns.

2.2 General Safety Instructions



WARNING:

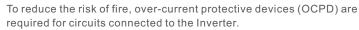
Please don't connect PV array positive(+) or negative(-) to ground, it could cause serious damage to the inverter.



WARNING:

Electrical installations must be done in accordance with the local and national electrical safety standards.

WARNING:



The DC OCPD shall be installed per local requirements. All photovoltaic source and output circuit conductors shall have disconnects that comply with the NEC Article 690, Part II. All Solis three phase inverters feature an integrated DC switch.



CAUTION:

Risk of electric shock. Do not remove cover. There is no user serviceable parts inside. Refer servicing to qualified and accredited service technicians.



CAUTION:

The PV array (Solar panels) supplies a DC voltage when they are exposed to sunlight.

CAUTION:



Risk of electric shock from energy stored in capacitors of the Inverter. Do not remove cover for 5 minutes after disconnecting all power sources (service technician only). Warranty may be voided if the cover is removed without unauthorized.

CAUTION:



The surface temperature of the inverter can exceed 75°C (167°F). To avoid risk of burns, DO NOT touch the surface when inverter is operating. The inverter must be installed out of reach of children.



WARNING:

High touch current. Earth connection essential before connecting supply.



Refer to the operating instructions.

2.3 Notice For Use

The inverter has been constructed according to the applicable safety and technical guidelines. Use the inverter in installations that meet the following specifications only:

1.Permanent installation is required.

- 2. The electrical installation must meet all the applicable regulations and standards.
- 3. The inverter must be installed according to the instructions stated in this manual.
- 4. The inverter must be installed according to the correct technical specifications.
- 5.To startup the inverter, the Grid Supply Main Switch (AC) must be switched on, before the solar panel's DC isolator shall be switched on. To stop the inverter, the Grid Supply Main Switch (AC) must be switched off before the solar panel's DC isolator shall be switched off.

2.4 Notice for Disposal

This product shall not be disposed of with household waste. They should be segregated and brought to an appropriate collection point to enable recycling and avoid potential impacts on the environment and human health. Local rules in waste management shall be respected .



3. Overview

3.1 Front Panel Display

There are four indicators on the Solis Series Inverter(Power, COM, CT/Meter and Bluetooth) which indicate the working status of the inverter.

	Light	Status	Description
	Today kWh	Today/kWh	Today's energy yield.
	888.8 Power kW	Power/kW	Current AC power.
s solis	Display screen	XXXX	The error code.
		Blue Flashing	The inverter is initializing.
	AN AND	Blue Solid ON	Normally Operating.
Today KWh Display	Power	Yellow Solid ON	Warning.
Power kW screen		Red Solid ON	Alarm.
Power Power		Blue Solid ON	COM Port is using.
Сом	COM	OFF	COM Port is not used.
CT/Meter	0	Blue Solid ON	CT/Meter Port is using.
Bluetooth	CT/Meter	OFF	CT/Meter Port is not used.
	*	Blue Solid ON	Bluetooth Port is using.
	Bluetooth	OFF	Bluetooth Port is not used.

NOTE:



COM/CT/Meter/Bluetooth indicators will automatically turn off after 2 minutes. The Power indicator will remain on with lower brightness.

Shortpress the Power indicator can wake up all indicators.

NOTE:



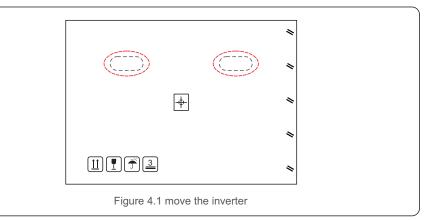
Long press the Power button for 5 seconds to reset the bluetooth connection passwords. If the reset is successful, the Power button will be flashing in Blue color and in 0.5s interval for 3s. If the reset is failed, the Power button will be flashing in Yellow color and in 0.5s interval for 3s.

4. Product handing and storage

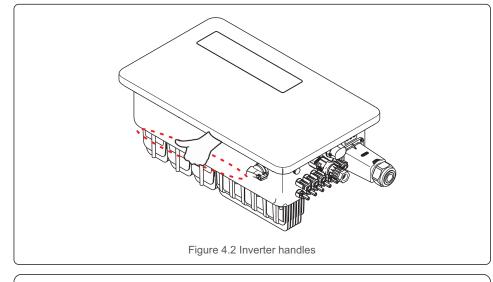
4.1 Product handling

Please review the instruction below for handling the inverter:

1. The red circles below denote cutouts on the product package. Push in the cutouts to form handles for moving the inverter (see Figure 4.1).



2.Open the carton, then two people handle both sides of inverter through the area denoted dotted line. (see figure 4.2).





NOTE:

Be careful to lift the inverter. The weight is around 27kg.

4. Product handing and storage

4.2 Product Storage

If the inverter is not to be installed immediately, storage instructions and environmental conditions are below:

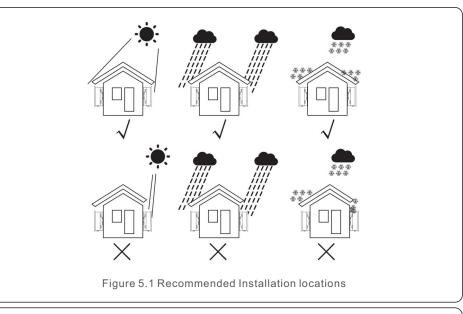
- Use the original box to repackage the inverter, seal with adhesive tape with the desiccant inside the box.
- Store the inverter(s) in a clean and dry place, free of dust and dirt.
- Storage temperature must be between -40°C and 70°C and the humidity should be between 0 and 95% non-condensing.
- Stack no more than three (3) inverters high.
- Keep box(es) away from corrosive materials to avoid damage to the inverter enclosure.
- Inspect packaging regularly. If packaging is damaged(wet, pest damage, etc), repackage the inverter immediately.
- Store the inverter(s) on a flat, hard surface not inclined or upside down.
- After long-term storage, the inverter needs to be fully examined and tested by qualified service or technical personnel before using.
- Restarting after a long period of non-use requires the equipment to be inspected and, in some cases, the removal of oxidation and dust that has settled inside the equipment will be required.

5.1 Select a Location for the Inverter

To select a location for the inverter, the following criteria should be considered:

WARNING: Risk of fire

- Despite careful construction, electrical devices can cause fires.
- Do not install the inverter in areas containing highly flammable materials or gases.
- Do not install the inverter in potentially explosive atmospheres.
- The mounting structure where the inverter is installed must be fireproof.
- Do not install in small closed spaces where air can not circulate freely. To avoid overheating, always make sure the flow of air around the inverter is not blocked.
- Exposure to direct sunlight will increase the operational temperature of the inverter and may cause output power limiting. Ginlong recommends inverter installed to avoid direct sunlight or raining.
- To avoid over heating ambient air temperature must be considered when choosing the inverter installation location. Ginlong recommends using a sun shade minimizing direct sunlight when the ambient air temperature around the unit exceeds 104°F/40°C.

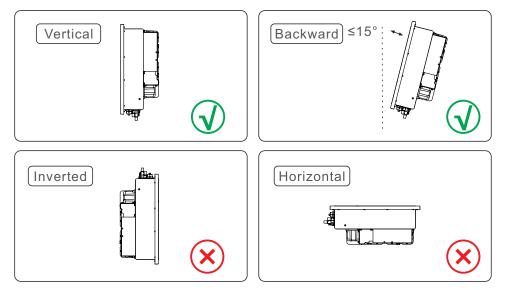




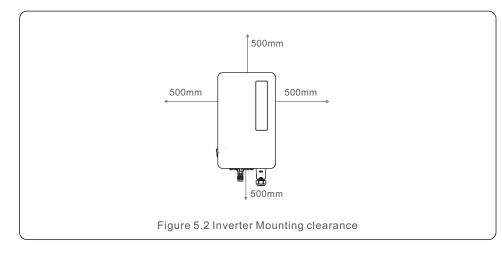
NOTE:

Nothing should be stored on or placed against the inverter.

5. Installation

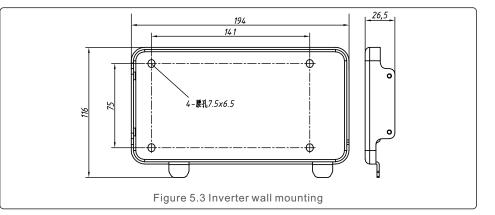


- Install on a vertical surface or structure capable of bearing the weight.
- Please install the inverter vertically. If the inverter cannot be mounted vertically, it may be tilted backward to 15 degrees from vertical.
- For multiple inverters are installed on site, a minimum clearance of 500mm, should be kept between each inverter and any other mounted equipment. The bottom of the inverter must be at least 500mm from the ground or floor. See figure 5.2.
- Visibility of the LED status indicator lights and LCD display screen should be considered.



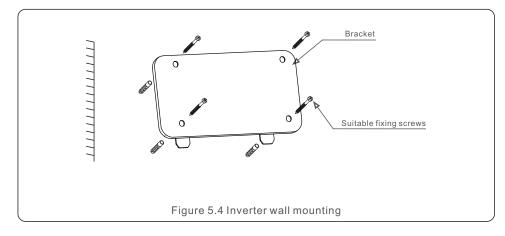
5.2 Mounting the Inverter

Back hanging plate size:



Refer to figure 5.4 and figure 5.5. Inverter shall be mounted vertically. The steps to mount the inverter are listed below.

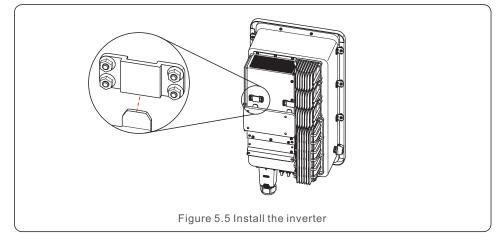
- Refer to Figure 5.4, the holes for expansion bolt based on the hole diameter of bracket (M10*70), using the percussion drilling with the 10mm drill need to stay vertically on the wall. And the drill hole must be vertically on the wall. And all drill holes' depth is 60mm.
- 2. Make sure the bracket is horizontal. And the mounting holes (in Figure 5.4) are marked correctly. Drill the holes into wall at your marks.
- 3. Use the suitable expansion screws to fix the bracket on the wall.



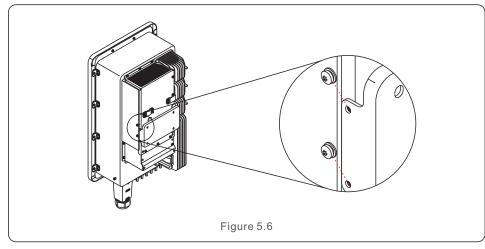
5. Installation

WARNING: The inverter must be mounted vertically.

4. Lift the inverter and hang it on the bracket, and then slide down to make sure they match perfectly.



5. If the installation position is high, the inverter cannot be directly mounted on the mounting plate, and the hoisting rope is hoisted through the two lifting holes.(The rope needs to meet the load-bearing requirements of this product).



5.3 Electrical Connections

Inverter designs quick-connect terminal, so top cover needn't open during electrical connection. The sign meaning located the bottom of inverter, as shown below in table 5.1. All electrical connections are suit for the local or national standard.

DC 1 ~ DC 6	DC input terminal
ON	Switch on the DC switch
OFF	Switch off the DC switch
	COM port for monitoring
16pin COM Port	COM port for Meter
	COM port for DRM
	Table 5.1 Electrical connection symbols

The electrical connection of the inverter must follow the steps listed below:

- 1. Switch the Grid Supply Main Switch (AC) OFF.
- 2. Switch the DC Isolator OFF.
- 3. Connect the inverter to the grid.
- 4. Assemble PV input connector to the Inverter.

5.3.1 Grounding

To effectively protect the inverter, two grounding methods must be performed. Connect the AC grounding cable (Please refer to section 5.3.3) Connect the external grounding terminal.

To connect the grounding terminal on the heat sink, please follow the steps below:

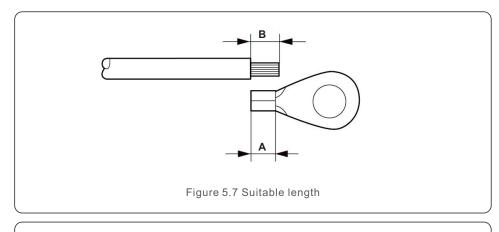
- 1. Prepare the grounding cable: recommend to use the ≥ 16mm² outdoor copper-core cable.
- 2. Prepare OT terminals: M6.

Important:



For multiple inverters in parallel, all inverters should be connected to the same ground point to eliminate the possibility of a voltage potential existing between inverter grounds.



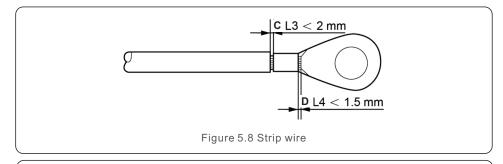


Important:

F

B (insulation stripping length) is 2mm~3mm longer than A (OT cable terminal crimping area) 2mm~3mm.

4. Insert the stripped wire into the OT terminal crimping area and use the hydraulic clamp to crimp the terminal to the wire (see Figure 5.8).

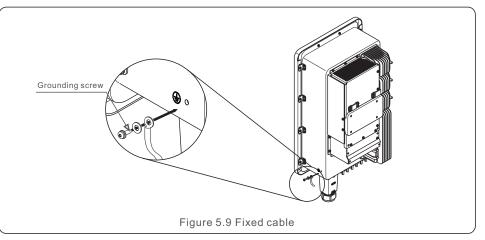


Important:

æ

After crimping the terminal to the wire, inspect the connection to ensure the terminal is solidly crimped to the wire.

- 5. Remove the screw from the heat sink ground point.
- 6. Connect the grounding cable to the grounding point on the heat sink, and tighten the grounding screw, Torque is 3-4Nm(see figure 5.9).



Important:

For improving anti-corrosion performance,

after ground cable installed, apply silicone or paint is preferred to protect.

5.3.2 Connect PV side of inverter

The electrical connection of the inverter must follow the steps listed below:

- 1. Switch the Grid Supply Main Switch (AC) OFF.
- 2. Switch the DC Isolator OFF.
- 3. Assemble PV input connector to the Inverter.



Before connecting inverter, please make sure the PV array open circuit voltage is within the limit of the inverter.

NOTE:



Before connection, please make sure the polarity of the output voltage of PV array matches the DC+ and DC- symbols.

5. Installation

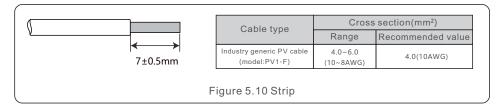


WARNING:

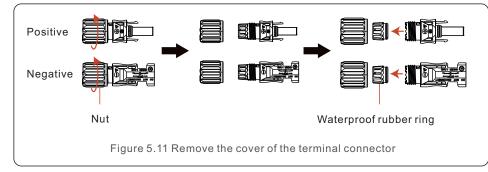
Please don't connect PV array positive or negative pole to the ground, it could cause serious damages to the inverter.

Please complete the assembling of the DC cable according to below procedures:

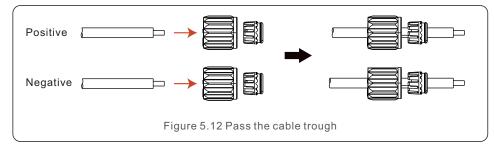
Step 1: Choose a proper DC cable and strip about 7+/-0.5mm, refer to the following table for specifications.



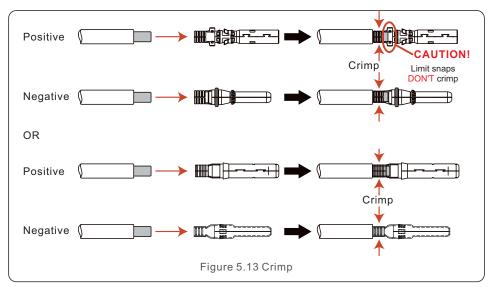
Step 2: take out the DC connector from the accessory bag, rotate the nut to remove it and take out the waterproof rubber ring.



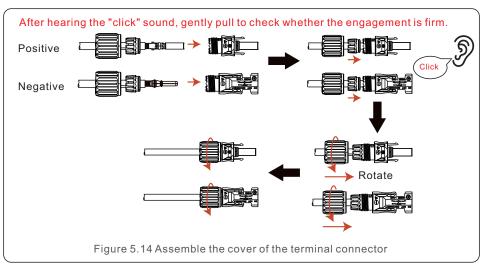
Step 3: Pass the stripped DC cable through the nut and waterproof rubber ring.



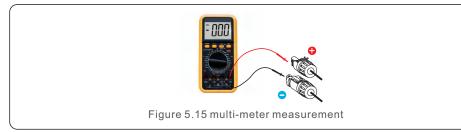
Step 4: Connect the conductor part of the DC cable to the metal DC terminal and press it with the DC terminal crimping tool.



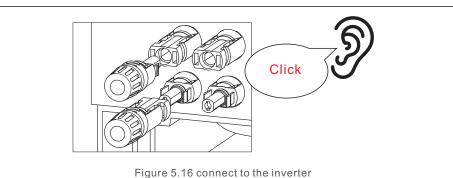
Step 5: Insert the crimped DC cable firmly into the DC terminal, then insert the waterproof rubber ring into the DC terminal and tighten the nut.



Step 6: Use a multimeter to measure the DC input voltage and verify the polarity of the DC input cable.



Step 7: Connect the assembled DC terminal to the inverter as shown in the figure, and a slight "click" will be heard, proving that the connection is correct.





If DC inputs are accidently reversely connected or inverter is faulty or not working properly, it is NOT allowed to turn off the DC switch. Otherwise it may cause DC arc and damage the inverter or even lead to a fire disaster. The correct actions are:

*Use a clip-on ammeter to measure the DC string current.

*If it is above 0.5A, please wait for the solar irradiance reduces until the current decreases to below 0.5A.

*Only after the current is below 0.5A, you are allowed to turn off the DC switches and disconnect the PV strings.

* In order to completely eliminate the possibility of failure, please disconnect the PV strings after turning off the DC switch to aviod secondary failures due to continuous PV energy on the next day.

Please note that any damages due to wrong operations are not covered in the device warranty.

5.3.3 Connect grid side of inverter

For the AC connection, 6-25mm² cable is required to be used. Please make sure the resistance of cable is lower than 1.5ohm.

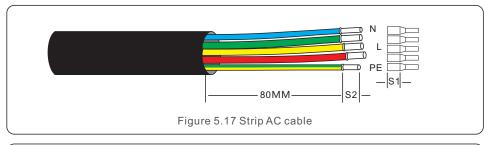
Cable specifi	cation	Copper-cored cable
Traverse cross	Range	6~25
sectional area (mm ²)	Recommended	25
Cable outer diameter	Range	13~25
(mm)	Recommended	25



For reliable connection, recommend customer select corresponding Euro type connectors based on wiring specification to connect the terminal.

The steps to assemble the AC grid terminals are listed as follows:

1. Strip the end of AC cable insulating jacket about 80mm then strip the end of each wire. (as shown in figure 5.17)





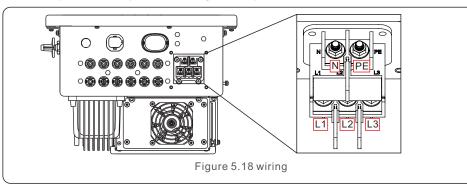
NOTE:

S2 (insulation stripping length) should be as long as S1 (AC terminal cable compression area).

- 2. Strip the insulation of the wire past the cable crimping area of the OT terminal, then use a hydraulic crimp tool to crimp the terminal. The crimped portion of the terminal must be insulated with heat shrinkable tube or insulating tape.
- 3. Leave the AC breaker disconnected to ensure it does not close unexpectedly.
- 4. Remove the 4 screws on the inverter junction box and remove the junction box cover .

5. Installation

5. Insert the cable through the nut, sheath, and AC terminal cover. Connect the cable to the AC terminal block in turn, using a socket wrench. Tighten the screws on the terminal block. The torque is 3~4Nm (as shown in Figure 5.18).

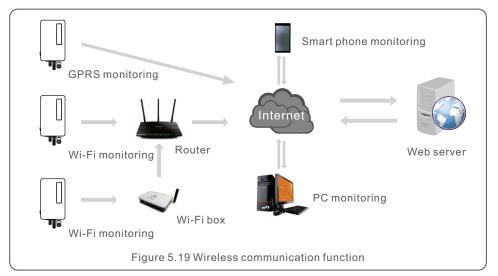


NOTE

Solis three phase inverters integrate neutral connection point. However, with or without neutral connected won't affect the normal operation of inverter itself. Please refer to the local grid requirement if need neutral cable connected.

5.3.4 Inverter monitoring connection

The inverter can be monitored via Wi-Fi or GPRS. All Solis communication devices are optional (Figure 5.19). For connection instructions, please refer to the Solis Monitoring Device installation manuals.



5.3.5 Max. over current protection device (OCPD)

To protect the inverter's AC grid connection conductors, Solis recommends installing breakers that will protect against overcurrent. The following table defines OCPD ratings for the inverters.

Inverter	Rated voltage(V)	Rated output current (Amps)	Current for protection device (A)
S6-GC3P25K03-NV-ND	220/380,230/400	38.0/36.1	63
S6-GC3P30K03-NV-ND	220/380,230/400	45.6/43.3	63
S6-GC3P33K03-NV-ND	220/380,230/400	50.1/47.6	63
S6-GC3P36K03-NV-ND	220/380,230/400	54.7/52.0	63
S6-GC3P40K03-HV-ND	480	48.1	63
S6-GC3P15K03-LV-ND	220/230	39.4	63
S6-GC3P20K03-LV-ND	220/230	52.5	63
Та	ble 5.1 Rating of grid	d OCPD	

There are 2 communication ports on the inverter.

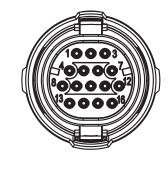
One is a USB COM port and the other is a 16-Pin COM port.

The USB COM port is used to connect Solis datalogging sticks

(Please refer to manuals of Solis datalogging sticks for details).

The 16-Pin COM port is used for multiple inverter daisy chain connection/DRM connection/ Logic Interface Connection/Meter connection.

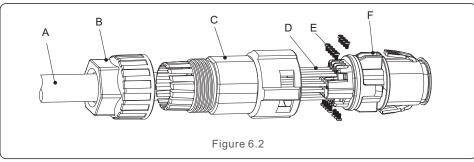
The inverter package will include a 16-Pin COM connector to be used on this 16-Pin COM port. The Pin definition is shown below. Facing the connector, Pin 1 is on the left of the first row. The rest polarity is showing in below diagram.



Pin	Definition	Pin	Definition
1	Meter RS485-A	9	DRM1/5
2	Meter RS485-B	10	DRM 2/6
3	COM1 485-A	11	DRM 3/7
4	COM1 485-B	12	DRM 4/8
5	/	13	RefGen
6	COM2 485-A	14	Com/DRM0
7	COM2 485-B	15	V+, 12V
8	/	16	V-, GND

Figure 6.1 16pin COM Connector

The following is the assembly diagram of the 16-Pin COM connector.



A-Main cable (Diameter: 4-6mm)

B-Locking Nut (Torque: 3.5-4N.m)

C-Sleeve

D-COM Wire (Dimension: 0.75-3mm², stripping length: 10-12mm)

E-Locking Screw (Torque: 0.4-0.6N.m)

F-Connector

Connect Steps:

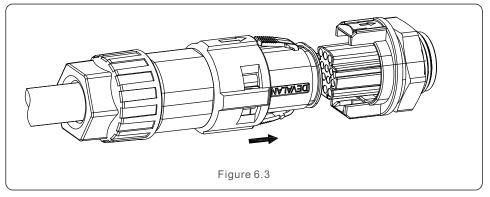
1. Lead the main cable through the locking nut and the sleeve.

2. Strip the COM wires and insert into corresponding pin terminals.

Then fasten the locking screws for the pin terminals.

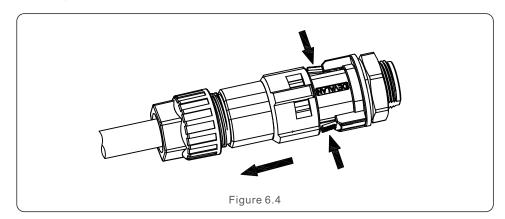
3. Push the sleeve onto the connector and fasten the locking nut on the end of the sleeve.

4. Connect the connector to the 16-Pin COM port at the bottom of the inverter.



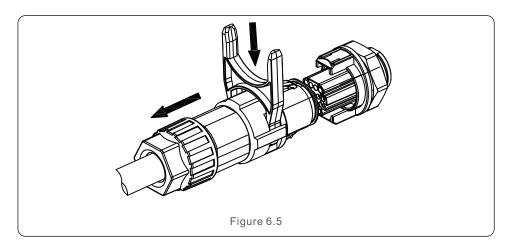
Disconnect Steps:

1. Press the button on both sides of the connector and pull the connector to disconnect from the COM port.



6. Comm. & Monitoring

2. Use the unlock tool to insert into the groove on the sleeve and pull the sleeve to disconnect from the connector.



6.1 Inverter monitoring connection

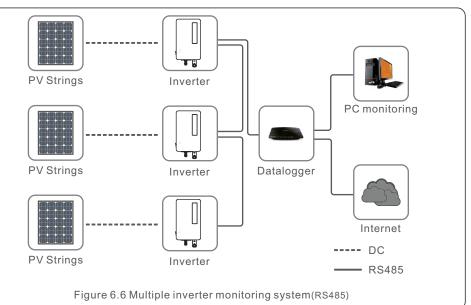
Solis can provide optional accessories such as one-to-one datalogging sticks including WiFi stick, GPRS stick and LAN stick for the monitoring of a single inverter or one-to-multiple datalogging boxes including WiFi box and GPRS Box for the monitoring of multiple inverters. Please refer to corresponding manuals for details.

6.1.1 Monitoring for a single inverter

Every inverter can connect a Solis one-to-one datalogging stick for remote monitoring purpose. The datalogging stick should be directly connected to the USB COM port at the bottom of the inverter. It is a simple plug and play design with fast installation time. Details and the rest configuration process please refer to the datalogging stick manual.

6.1.2 Monitoring for multiple inverters

When multiple inverters need to run daisy chain communication together, Pin3/4 and Pin6/7 of the 16-Pin COM Port can be used.



10003	Pin	Definition	Description	
	3	COM1 485-A	RS485 IN A	
	4	COM1 485-B	RS485 IN B	
	6	COM2 485-A	RS485 OUT A	
	7	COM2 485-B	RS485 OUT B	
	Figu	ire 6.7		

The bus RS485 cable can run into a Solis one-to-multiple datalogging box or any compatible 3rd party monitoring devices, PPC or plant SCADA.

6.2 DRM Connection/ Logic Interface Connection

The AS/NZS 4777.2:2020 requires inverters to support demand response modes (DRM). Solis Australian version inverters fully comply with the DRM requirements in AS/NZS 4777 .2:2015. The pin definition is showing below. For details on the working logic, please refer to the standard document of AS/NZS 4777.2:2020. The DRM controlling device is not in the scope of supply of Solis.

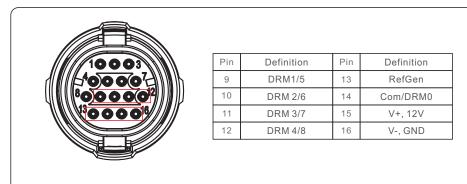
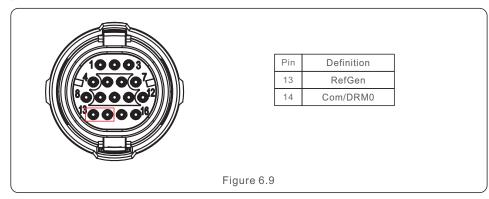


Figure 6.8

Some European countries may require a simply logic interface relay or contactor switch to operate the RUN/STOP of inverters. For Solis European version inverters, the Pin 13 and Pin 14 can be used to perform the control logic (Not available in South Africa).

The logic interface relay or contactor switch is not in the scope of supply of Solis.

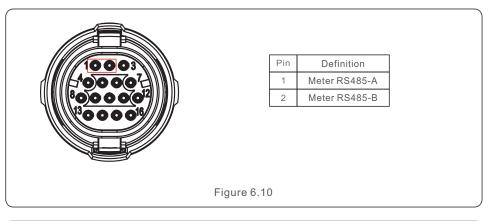
When the relay is closed (Short between Pin13 and Pin14), the inverter can operate normally. When the relay is opened (Open between Pin13 and Pin14), the inverter will reduce its output power to zero within 5s.

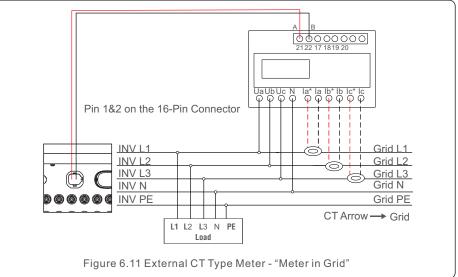


6.3 Meter Connection

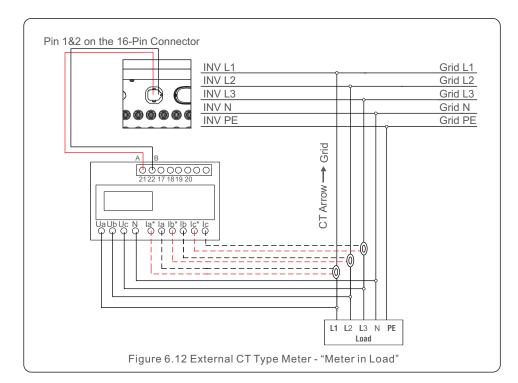
The inverter can work with a three phase smart meter to achieve Export Power Management function and/or 24hour consumption monitoring function.

The Pin 1 and Pin 2 of the 16-Pin COM port are used for Meter RS485 communication.



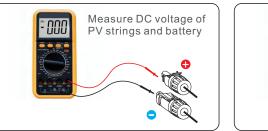


7. Commissioning



7.1 Preparation

- Ensure all the devices are accessible for operation, maintenance and service.
- Check and confirm that the inverter is firmly installed.
- Space for ventilation is sufficient for one inverter or multiple inverters.
- Nothing is left on the top of the inverter.
- Inverter and accessories are correctly connected.
- Cables are routed in safe place or protected against mechanical damage.
- Warning signs and labels are suitably affixed and durable.
- An Android or IOS mobile phone with Bluetooth function is available.
- Measure DC voltage of PV strings and ensure the polarity is correct.
- Measure AC voltage and frequency and ensure they are within local standard.





7.2 APP Download

Users need to download the APP before installing it for the first time. There are three ways to download and install the latest APP:

- 1. You can visit www.soliscloud.com to download the latest version APP.
- 2. You can search "**Soliscloud**" in Google Play or App Store.
- 3. You can scan this QR code below to download "Soliscloud".



7. Commissioning

7.3 Local Connection via APP

Step 1: Rotate the inverter DC switch from OFF to ON.

Step 2: APP Bluetooth connection with inverter.

Turn on Bluetooth switch on your mobile phone and then open the Soliscloud APP. Click "More Tools"->"Local Operation"->"Connect with Bluetooth"



Select the Bluetooth signal from the inverter. (Bluetooth Name: INV-Inverter SN)

If the device is not in the list, pleas button at the bottom or drop-down	
Other Device	
INV-xxxxxxxxxx	>
📵 vivo TWS 2	>

Step 3: Login account.

If you are the installer, please select the account type as Installer. If you are the plant owner, please select the account type as owner. Then set your own initial password for control verification. (The first log-in must be finished by installer in order to do the initial set up)

Control Verification	〈 Control Verification	Control Verification
INV-xxxxxxxxx	INV-xxxxxxxxxx	INV-xxxxxxxxx
Select account type	Select account type	Installer
Enter password (6-characters)	Enter password (6-characters)	Enter password (6-characters)
Verify	Installer	Enter password again
	Owner	Please set the password of the installer's account before continuing
	Cancel	Set Enable

Step 4: Grid Code Setting.

After login in, the grid code setting will pop up. Select "Confirm" will automatically choose the "Custom50" by default.



If the default standard doesn't meet the local grid requirement: Select "Settings->Grid Parameter Setting->Grid Code Setting->Grid Code", choose the applicant standard according to the installation and save.

Select Country/Region	
General	er
User-define	
Other	
A	
Aruba	
Australia	
Austria	
В	
Barbados	1
Belgium	
Brazil	

7. Commissioning

The specific parameters can be set at Grid Code Setting page. Mention that the grid parameters modification should be permissible by utility grid company or the power distribution supplier.

Grid Code Setting		Grid Code Setting
Grid Code	EN50549 >	Grid Code EN50549 >
OV-G-V 01	276V >	0V-G-V 01 276V >
OV-G-T 01	5.0s >	0V-p
UN-G-V 01	184V >	OV-G-V 01
UN-G-T 01	3.0s >	Current Value: 276V UN- Input set value V
OV-G-F 01	51.5Hz >	OV-I Hz >
OV-G-F-T 01	0.5s >	OV- Cancel Save 56 >
UN-G-F 01	47.5Hz >	UN-G-F 01 47.5Hz >
UN-G-F-T 01	0.5s >	UN-G-F-T 01 0.5s >
OV-G-V 02	287V >	0V-G-V 02 287V >

Step 5: Turn on the AC switch between the inverter and Grid, wait till the inverter start generating.

7.4 Stop the Inverter

To stop the inverter, it is mandatory that the steps below are followed in the exact order outlined.

- 1. Select "Power OFF" in the APP.
- 2. Turn off the AC Switch between Solis inverter and Grid.
- 3. Wait approximately 30 seconds (during this time, the AC side capacitors are dissipating energy). If the inverter has DC voltage above the start-up threshold, the red POWER LED will be lit. Switch the DC switch OFF.
- 4. Confirm all LED's switch OFF (~one (1) minute).

CAUTION



Although the inverter DC disconnect switch is in the OFF position and all the LED's are OFF, operators must wait five (5) minutes after the DC power source has been disconnected before opening the inverter cabinet. DC side capacitors can take up to five (5) minutes to dissipate all stored energy. The APP interface contains 4 sections:

1. Home

8.1 Home Page

The home page contains the power and energy data of the inverter. The PV data and AC data are also available under this section.

	0 1801151 NO-9	232210002 grid	2 (
庙	[A	
Total PV In	nput Power	Today Yiel	ld	
0 w		3.6 kWh	3.6 kWh	
Yesterday	Yield	This Month	h Yield	
0.0 kWh		3 kWh	3 kWh	
Last Mont	h Yield	This Year	Yield	
0 kWh	0 kWh		3 kWh	
Last Year	Yield	Total Yield	I	
$0 \mathrm{kWh}$		3 kWh		
	Voltage	Current	Power	
PV1	400.9V	0.0A	0.00W	
PV2	21.3V	0.0A	0.00W	
PV3	0.0V	0.0A	0.00W	
PV4	0.0V	0.0A	0.00W	
AC Voltage			0.0\	
AC Curren	t		0.0/	

^{2.} Info

^{3.} Alarm

^{4.} Settings

8. Operation

8.2 Info Page

Info page displays the general information of the inverter such as inverter serial number, firmware version, grid code, etc.

 I801151232 Update:15:0 		\Im
Inverter SN	18011	51232210002
Output Power		0W
Inverter Time	2023-03	3-14 14:55:58
Work Mode	No re	sponse mode
Rated Power		
Model Number		115
DSP Firmware Version		V3A
HMI Firmware Version		V1
DRM Number		8
Grid Code		68
Advanced Information		>
DSP Communication Data		>
Running Information		>
Hame Info	-Ìģ- Alarm	(O) Settings

8.3 Alarm Page

Alarm page contains the alarm code of the inverter and its corresponding troubleshooting methods.

	Update:15	5:01:29		
Alarm Message:				
Alarm Code: 101	5			
Alarm Grade: Hir	nt			
Solving Methods:	connected. 2. Check if normal. 3. If the ma		l power gri n is normal	, you

8.4 Setting Page

Setting page contains all the setting options of the inverter.

Functions	Setting Path
Switch on/off the inverter	Settings -> "Power ON" & "Power OFF"
Change inverter time setting	Settings -> Inverter Setting-> Inverter Parameter Setting -> Inverter Time Setting
Change inverter output power percentage or power factor	Settings -> Inverter Setting-> Inverter Power Setting
Set grid code and protection parameters	Settings -> Grid Parameter Setting -> Grid Code Setting
Set Export Power control	Settings -> EPM Setting
Set grid code related working modes	Settings -> Inverter Work Mode Setting -> Work Mode

Grid Parameter Setting > EPM Setting > inverter Work Mode Setting > Frequency Derating Setting >	< 0 1801151	232210002	\otimes
Grid Parameter Setting > EPM Setting > Inverter Work Mode Setting > Frequency Derating Setting > VRT Setting >	(in) Power ON	(off) Power C	FF
EPPM Setting Inverter Work Mode Setting VRT Setting VRT Setting	Inverter Setting		>
Inverter Work Mode Setting > Frequency Derating Setting > VRT Setting >	Grid Parameter Setting		>
Frequency Derating Setting > VRT Setting >	EPM Setting		>
VRT Setting	Inverter Work Mode Setting		>
	Frequency Derating Setting		>
	VRT Setting		>
	☆ 目	-`#	0

NOTE:



The inverter is by default setting with grid code which complies with local requirements. If there is need to modify the protection limits, please consult and approve by your local grid operator.

8.4.1 Start up and Stop the inverter

- 1. Select "Settings -> Power ON" to start up the inverter.
- 2. Select "Settings -> Power OFF" to stop the inverter.

8. Operation

8. Operation

8.4.2 Inverter Setting



8.4.2.1 Inverter Function Setting

1. AFCI Setting

Setting	Description
AFCI Protect	Set the inverter AFCI function ON/OFF.
Arc-Fault Manual Reset	 Within 24 hours, if an Arc-Fault alarm occurs for the 1st-4th times, the inverter will stop operating and automatically reconnect to the grid after a 5-minute delay. Upon the 5th occurrence of an Arc-Fault alarm, the inverter will stop operating and will only reconnect to the grid automatically after the Arc-Fault alarm is manually cleared. Installer needs to thoroughly inspect the DC circuit to ensure all the cables are correctly fastened. Once the DC circuit issue has bean fixed or it is confirmed to be OK, using this setting to make a manual reset and wait for the inverter to reconnect.

2. 24-Hour Load Monitoring

Turn on this switch to enable 24-Hour Load Monitoring function. Please refer to 6.4.4.1 Built-in EPM Setting for details.

3. MPPT Multi-peak Scanning Setting

Setting	Description
MPPT Multi-peak Scanning Switch	Set the function ON/OFF.
MPPT Multi-peak Scan Interval	The inverter will carry out Multi-peak MPPT scanning 1 time every scan interval.

4. Logical Interface Setup

Setting	Description
Logic Interface(DRM) Switch	Set the function ON/OFF.
P_Limit DI 1 ~ P_Limit DI 4	Set the AC output power under different DI.

8.4.2.2 Inverter Parameter Setting

Setting	Description
Time	Set the inverter time and date according to local time zone.
Slave Address	Set the inverter address when multiple inverters are installed.
Generation Calibration	Calibrate the inverter daily, monthly, annual and total yield.

8.4.2.3 Inverter Power Setting

Setting	Description
Output Power Setting	Set the inverter maximum AC output power.
PF Curve	Set the inverter power factor.
Power Limit	Set the power control slope, power rise control slope, power down control slope, EN 50549 power change gradient after fault trip restart, EN 50549 gradient limit for power-on change.

8.4.2.4 Load-shed mode setting

Basing on the different sensitivity of noise level to customer, customer can choose the loadshed mode of controlling fan to reduce noise.

Select"Inverter setting -> inverter special function setting -> loadshed fan control".



Noisy level(from max to min): Performance>normal>silent

8.4.3 Grid Parameter Setting

See Chapter 5.3 for details.

8.4.4 EPM Setting

Built-in EPM is for PV plant with only 1 inverter, while External EPM for multiple inverters.

8. Operation

8.4.4.1 Built-in EPM Setting

NOTE:

Select "Settings -> EPM Setting -> Built-in EPM Setting" to make the settings. The Built-in EPM includes 2 functions related to the smart meter or smart sensor.



Function 1: Export Power Management Function

- 1. Inverters can work with a smart meter OR a smart sensor to dynamically limit the export power of the system.
- 2. Zero injection can be achieved.
- 3. Smart meter can be installed either on the grid side OR the load side. Smart sensor can only be installed on the grid side.

Function 2: 24-Hour Load Monitoring Function

- 1. Only applicable if Solis monitoring system is used.
- 2. Inverters can work with a smart meter OR smart sensor to monitor the load consumption data for the whole day and the data will be displayed on the Solis monitoring system.
- 3. Smart meter or smart sensor can only be installed on the grid side.

NOTE:

Please refer to below instructions for different user scenarios.

Scenario 1. Only Function 1 is required

Using a Smart Meter:

Step 1: Refer to Section 4.3.7 to connect the smart meter on the grid side or load side.

Step 2: Select the corresponding meter model in the Meter Selection.

Step 3: Choose Meter in Grid Mode or Meter in Load Mode in the Built-in EPM mode selection accordingly.

Step 4: Configure the **System Export Power Limit Value** to set the allowed backflow power.

Step 5: Configure the **Built-in EPM Failsafe Switch** to enable the failsafe function (If necessary).

Using a Smart Sensor:

Step 1: Refer to Section 4.3.8 to connect the smart sensor on the grid side.

Step 2: Select the CT Sensor Mode in the Built-in EPM mode selection.

Step 3: Configure the CT Ratio and CT Direction at the "Settings -> EPM Setting -> CT Setting". (If necessary).

Step 4: Configure the **System Export Power Limit Value** to set the allowed backflow power.

Step 5: Configure the **Built-in EPM Failsafe Switch** to enable the failsafe function (If necessary).



NOTE:

Please refer to below instructions for different user scenarios.

Scenario 2. Only Function 2 is required

Using a Smart Meter:

Step 1: Refer to Section 4.3.7 to connect the smart meter on the grid side or load side.

Step 2: Select the corresponding meter model in the Meter Selection.

Step 3: Choose Meter 24-Hour Monitoring Mode in the Built-in EPM mode selection accordingly.

Step 4: Enable the **24-Hour Load Monitoring** function at "**Settings -> Inverter Setting -> Inverter Function Setting**".

Using a Smart Sensor:

Step 1: Refer to Section 4.3.8 to connect the smart sensor on the grid side. Step 2: Select the **CT load Monitoring Mode** in the **Built-in EPM mode** selection.

Step 3: Configure the CT Ratio and CT Direction at the "Settings -> EPM Setting -> CT Setting". (If necessary).

Step 4: Enable the **24-Hour Load Monitoring** function at "**Settings -> Inverter Setting -> Inverter Function Setting**".



NOTE:

Please refer to below instructions for different user scenarios.

Scenario 3. Both Function 1 and 2 are required Using a Smart Meter:

Step 1: Refer to Section 4.3.7 to connect the smart meter on the grid side or load side.

Step 2: Select the corresponding meter model in the Meter Selection.

Step 3: Choose Meter in Grid Mode or Meter in Load Mode in the Built-in EPM mode selection accordingly.

Step 4: Configure the **System Export Power Limit Value** to set the allowed backflow power.

Step 5: Configure the **Built-in EPM Failsafe Switch** to enable the failsafe function (If necessary).

Step 6: Enable the **24-Hour Load Monitoring** function at "**Settings -> Inverter Setting -> Inverter Function Setting**".

Using a Smart Sensor:

Step 1: Refer to Section 4.3.8 to connect the smart sensor on the grid side.

Step 2: Select the CT Sensor Mode in the Built-in EPM mode selection.

Step 3: Configure the CT Ratio and CT Direction at the "Settings -> EPM Setting -> CT Setting". (If necessary).

Step 4: Configure the **System Export Power Limit Value** to set the allowed backflow power.

Step 5: Configure the **Built-in EPM Failsafe Switch** to enable the failsafe function (If necessary).

Step 6: Enable the **24-Hour Load Monitoring** function at "**Settings -> Inverter Setting -> Inverter Function Setting**".

K Built-in EPM Setting Built-in EPM mode selection EPM ALL OFF > System Export Power Limit Value 2000V > Built-in EPM Failsafe Switch ON > Meter Selection ACR10TITE-ACHI P Meter > G100V2 Control Switch OFF > G100V2 Backflow Current 16.00A > G100V2 Alarm Clear > S100V2 Alarm Clear Type Non-Domestich		
System Export Power Limit Value 2000W > Built-in EPM Failsafe Switch ON > Meter Selection ACR10RD16TE-Acrel 1P Meter > G100V2 Control Switch OFF > G100V2 Backflow Current 16.00A > G100V2 Alarm Clear >	Built-in EPM Setting	
Built-in EPM Failsafe Switch ON > Meter Selection ACR10RD16TE-Acrel 1P Meter > G100V2 Control Switch OFF > G100V2 Backflow Current 16.00A > G100V2 Alarm Clear >	Built-in EPM mode selection E	PM ALL OFF >
Meter Selection ACR10RD16TE-Acrel 1P Meter > G100V2 Control Switch OFF > G100V2 Backflow Current 16.00A > G100V2 Alarm Clear >	System Export Power Limit Value	e 2000W >
G100V2 Control Switch OFF > G100V2 Backflow Current 16.00A > G100V2 Alarm Clear >	Built-in EPM Failsafe Switch	ON >
G100V2 Backflow Current 16.00A > G100V2 Alarm Clear >	Meter Selection ACR10RD16TE	E-Acrel 1P Meter >
G100V2 Alarm Clear >	G100V2 Control Switch	OFF >
	G100V2 Backflow Current	16.00A >
G100V2 Alarm Clear Type Non-Domestic >	G100V2 Alarm Clear	>
	G100V2 Alarm Clear Type N	Ion-Domestic >

Setting	Description
Built-in EPM mode	6 built-in EPM mode is optional. Choose the appropriate mode needed.
System Export Power Limit Value	Set the permissible PV plant export power to the gird.
Built-in EPM Failsafe Switch	When G100 standard is used, this switch is enabled by default.
Meter Selection	Select the meter model according to the actual installation.
G100V2 Control Switch	When new G100 standard is used, enable this switch. Select the meter or CT mode according to the actual installation.
G100V2 Backflow Current	Set the backflow current of the PV plant to the grid. Only meaningful when G100V2 switch is on.
G100V2 Alarm Clear	Use this function to clear a fault status according to new G100 standard. Only meaningful when G100V2 switch is on.
G100V2 Alarm Clear Type	Select the Domestic or Non-domestic according to the actual installation. Only meaningful when G100V2 switch is on.

There are 6 modes for Built-in EPM.

- 1. EPM ALL OFF. Built-in EPM function is disabled.
- 2. CT Sensor Mode. Solis Smart Sensor is connected in the grid connection point
- (The **System Export Power Limit Value** setting is applicable, default value is 0W). **3. Meter in Grid Mode.** Solis Smart Meter is connected in the grid connection point
- (The System Export Power Limit Value setting is applicable, default value is 0W).
- 4. Meter in Load Mode. Solis Smart Meter is connected in the load branch circuit
- (The System Export Power Limit Value setting is applicable, default value is 0W).
- **5. Meter 24-Hour Monitoring Mode.** Solis Smart Meter is connected in the grid connection point(used for 24h load monitoring only, the **System Export Power Limit Value** setting is not applicable).

6. CT load Monitoring Mode. Solis Smart Sensor is connected in the grid connection point (used for 24h load monitoring only, the **System Export Power Limit Value** setting is not applicable).

8.4.4.2 External EPM Setting

Select "Settings -> EPM Setting -> External EPM Setting". External EPM Failsafe Swtich should be turned ON when external EPM device is used.

8.4.5 Inverter Work Mode Setting

Select "Settings -> Inverter Work Mode Setting".

Inverter Work Mode Setting	
No response mode	>
Volt-watt	OFF >
Volt-var	OFF >
Fixed power factor	OFF >
Fix reactive power	OFF >
Power-PF	OFF >

1. No response mode

Use this switch to close all response mode.

2. Volt-watt Mode

The volt-watt mode varies the active power output level of the inverter in response to the voltage at its grid-interactive port.

3. Volt-var Mode

The volt-var mode varies the reactive power absorbed or supplied by the inverter in response to the voltage at its grid-interactive port.

4. Fixed power factor Mode

The fixed power factor mode is for control of power factor over the range of inverter output.

5. Fixed reactive power Mode

The fixed reactive power mode is for control of reactive power over the range of inverter output.

6. Power-PF Mode

The Power-PF mode varies the active power output level of the inverter in response to its power factor.

9. Maintenance

Solis Three Phase Inverter does not require any regular maintenance. However, cleaning the dust on heat-sink will help the inverter to dissipate the heat and increase its life time. The dust can be removed with a soft brush.

CAUTION:

Do not touch the inverter's surface when it is operating. Some parts of the inverter may be hot and cause burns. Turn off the inverter and wait for a cool-down period before any maintenance or cleaning operation.

The LED status indicator lights can be cleaned with a damp cloth if they are too dirty to be read.

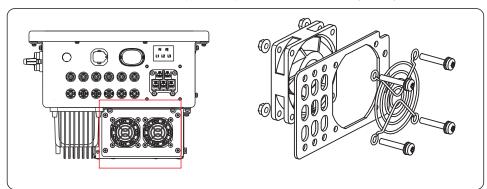


9.1 Fan Maintenance

If the fan does not work properly, the inverter will not be cooled effectively. and it may affect the effective operation of the inverter .

Therefore, it is necessary to clean or replace a broken fan as follows:

- 1. Disconnect the AC power.
- 2. Turn the DC switch to "OFF" position.
- 3. Wait for 10 minutes at least.
- 4. Disconnect all electric connection.
- 5. Place the inverter on the platform.
- 6. Remove the 4 screws on the fan plate and pull out the fan assembly slowly.



- 7. Disconnect the fan connector carefully and take out the fan.
- 8. Clean or replace the fan. Assemble the fan on the rack.
- 9. Connect the electrical wire and reinstall the fan assembly. Restart the inverter.

The inverter is designed in accordance with the most important international grid-tied standards and safety and electromagnetic compatibility requirements. Before delivering to the customer, the inverter has been subjected to several tests to ensure its optimal operation and reliability.

In case of failure, the LCD screen will display an alarm message. In this case, the inverter may stop feeding into the grid. The failure descriptions and their corresponding alarm messages are listed in Table 10.1:

Alarm Message	Failure description	Solution
Nopower	Inverter no power on LCD	1.Check PV input connections 2.Check DC input voltage (single phase >120V, three phase >350V) 3.Check if PV+/- is reversed
LCD show initializing all the time	Can not start-up	 Check if the connector on main board or power board are fixed. Check if the DSP connector to power board are fixed.
OV-G-V01/02/03/04	Over grid voltage	 Resistant of AC cable is too high. Change bigger size grid cable Adjust the protection limit if it's allowed by electrical company.
UN-G-V01/02	Under grid voltage	
OV-G-F01/02	Over grid frequency	1.Use user define function to adjust the protection limit if it's allowed by
UN-G-F01/02	Under grid frequency	electrical company.
G-IMP	High grid impedance	
NO-GRID	No grid voltage	 Check connections and grid switch. Check the grid voltage inside inverter terminal.
OV-DC01/02/03/04	Over DC voltage	1.Reduce the module number in series
OV-BUS	Over DC bus voltage	1.Check inverter inductor connection
UN-BUS01/02	Under DC bus voltage	2.Check driver connection
GRID-INTF01/02	Grid interference	
OV-G-I	Over grid current	1.Restart inverter 2.Change power board
IGBT-OV-I	Over IGBT current	
DC-INTF OV-DCA-I	DC input overcurrent	1.Restart inverter 2.Identify and remove the string to the fault MPP 2.Change power board
IGFOL-F	Grid current tracking fail	
IG-AD	Grid current sampling fail	1.Restart inverter or contact installer.
INI-FAULT	Initialization system fault	
DSP-B-FAULT	Comm. failure between main and slave DSP	1.Restart inverter or contact installer.
12Power-FAULT	12V power supply fault	

10. Troubleshooting

10. Troubleshooting

Alarm Message	Failure description	Solution
OV-TEM	Over Temperature	 Check inverter surrounding ventilation. Check if there's sunshine direct on inverter in hot weather.
PV ISO-PRO 01/02	PV isolation protection	 Remove all DC input, reconnect and restart inverter one by one. Identify which string cause the fault and check the isolation of the string.
ILeak-PRO 01/02/03/04	Leakage current protection	1.Check AC and DC connection 2.Check inverter inside cable connection.
RelayChk-FAIL	Relay check fail	1.Restart inverter or contact installer.
DCinj-FAULT	High DC injection current	
AFCI self-detection (model with AFCI module)	AFCI module self-detect fault	1.Restart inverter or connect technician.
Arcing protection (model with AFCI module)	Detect arc in DC circuit	1. Check inverter connection whether arc exists and restart inverter.
Screen OFF with DC applied	Inverter internally damaged	 Do not turn off the DC switches as it will damage the inverter. Please wait for the solar irradiance reduces and confirm the string current is less than 0.5A with a clip-on ammeter and then turn off the DC switches. Please note that any damages due to wrong operations are not covered in the device warranty.

Table 10.1 Fault message and description

NOTE: If the in

If the inverter displays any alarm message as listed in Table 10.1; please turn off the inverter and wait for 5 minutes before restarting it . If the failure persists, please contact your local distributor or the service center. Please keep ready with you the following information before contacting us.

1. Serial number of Solis Three Phase Inverter;

2. The distributor/dealer of Solis Three Phase Inverter (if available);

3. Installation date.

- 4. The description of problem;
- 5. The PV array configuration (e.g. number of panels, capacity of panels, number of strings , etc.);

6. Your contact details.

Max. DC input voltage (Volts)1100Rated DC voltage (Volts)600Start-up voltage (Volts)180MPT voltage range (Volts)180-1000Max. input power per MPPT (Watts)25000Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)16Rated channel current (Amps)16Rated channel current (Amps)16Rated output power (Watts)25000Max. apparent output power (VAtts)25000Max. apparent output power (VAtts)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. efficiency98.5%EU efficiency98.0%Dimensions (W"H"D)355/625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1WOperating ambient temperature range-26*C-+60*CRelative humidity0100%Ingress protectionIP66Protective class1Noise emission (Typical) <th>Model</th> <th>S6-GC3P25K03-NV-ND</th>	Model	S6-GC3P25K03-NV-ND
Start-up voltage (Volts)180MPPT voltage range (Volts)180-1000Max. input power per MPPT (Watts)25000Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. output power (Watts)25000Max. output power (Watts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)<3%	Max. DC input voltage (Volts)	1100
MPPT voltage range (Volts)180-1000Max. input power per MPPT (Watts)25000Max. input current (Amps)3'40Max short circuit input current (Amps)3'50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. output power (Watts)3/N/PE, 220/380, 230/400Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)3%Rated grid frequency (Hertz)50/60Max. efficiency98.5%EU efficiency98.6%EU efficiency98.6%Dimensions (W"H*D)355*625*250mmWeight25.3kg	Rated DC voltage (Volts)	600
Max. input power per MPPT (Watts)25000Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)25000Max. apparent output power (Watts)25000Max. output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)33%Rated grid frequency (Hertz)50/60Max. efficiency98.5%EU efficiency98.5%EU efficiency98.5%Self consumption (Night)<1W	Start-up voltage (Volts)	180
Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored strings per channel4/2No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. output power (Watts)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)0.8leading-0.8laggingTHDi (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1W	MPPT voltage range (Volts)	180~1000
Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel currente (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. output power (Watts)25000Rated grid output power (VA)25000Rated grid output current (Amps)38.0/36.1Max. output power (VA)38.0/36.1Rated grid output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)35%EU efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1W	Max. input power per MPPT (Watts)	25000
MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No.of monitored strings per input port1No.of input ports per channel4/2No.of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)30/60Max.efficiency98.5%EU efficiency98.5%EU efficiency98.5%Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)< 1W	Max. input current (Amps)	3*40
ClassificationAFCI Type: F-I-AFPE-1-4/2-1No.of monitored strings per input port1No.of input ports per channel4/2No.of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. output power (Watts)25000Max. output power (Watts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)3/N/PE, 220/380, 230/400Rated grid frequency (Hertz)50/60Max. efficiency98.5%EU efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)< 1W	Max short circuit input current (Amps)	3*50
No. of monitored strings per input port1No. of input ports per channel4/2No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	MPPT number/Max input strings number	3/6
No. of input ports per channel4/2No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)33%Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1W	Classification	AFCI Type: F-I-AFPE-1-4/2-1
No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	No.of monitored strings per input port	1
Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)<3%	No.of input ports per channel	4/2
Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	No.of monitored channels	2
Rated interruption current (Amps)16Rated output power (Watts)25000Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated channel curente (Amps)	64/32
Rated output power (Watts)25000Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Maximum current per input port (Amps)	16
Max. output power (Watts)25000Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated interruption current (Amps)	16
Max. apparent output power (VA)25000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated output power (Watts)	25000
Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Max. output power (Watts)	25000
Rated grid output current (Amps)38.0/36.1Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Max. apparent output power (VA)	25000
Max. output current (Amps)38.0/36.1Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated grid voltage (Volts)	3/N/PE, 220/380, 230/400
Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated grid output current (Amps)	38.0/36.1
THDi (at rated output power)<3%Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1W	Max. output current (Amps)	38.0/36.1
Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1W	Power Factor (at rated output power)	0.8leading~0.8lagging
Max.efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1W	THDi (at rated output power)	<3%
EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1W	Rated grid frequency (Hertz)	50/60
Dimensions (W*H*D)355*625*250mmWeight25.3kgTopologyTransformerlessSelf consumption (Night)<1W	Max.efficiency	98.5%
Weight 25.3kg Topology Transformerless Self consumption (Night) <1W	EU efficiency	98.0%
Topology Transformerless Self consumption (Night) < 1W	Dimensions (W*H*D)	355*625*250mm
Self consumption (Night) <1W	Weight	25.3kg
Operating ambient temperature range-25°C~+60°CRelative humidity0~100%Ingress protectionIP66Protective classINoise emission (Typical)≤60 dB (A)Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	Тороlоду	Transformerless
Relative humidity0~100%Ingress protectionIP66Protective classINoise emission (Typical)≤60 dB (A)Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	Self consumption (Night)	< 1W
Ingress protection IP66 Protective class I Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Operating ambient temperature range	-25℃~+60℃
Protective class I Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Relative humidity	0~100%
Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Ingress protection	IP66
Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Protective class	I
Overvoltage category DC II, AC III	Noise emission (Typical)	≤60 dB (A)
	Cooling concept	Intelligent redundant fan-cooling
Max.operation altitude 4000m	Overvoltage category	DC II, AC III
	Max.operation altitude	4000m

Model	S6-GC3P25K03-NV-ND
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530
Safty/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
DC connection	MC4 connector
AC connection	OT Terminal
Display	LED digital display & LED indicator
Communication connections	RS485, Optional: Wifi, GPRS
Warranty	5 years (extend to 20 years)
AC Current(inrush)	Peak current: 5.47A Duration: 5ms
Grid type	TN,TT(For-NV) IT(For-LV,HV)
Max. inverter backfeed current to the array	0A

Max. DC input voltage (Volts) 1100 Rated DC voltage (Volts) 600 Start-up voltage (volts) 180 MPT voltage range (Volts) 180-1000 Max. input power per MPPT (Watts) 25000 Max. input current (Amps) 3*40 Max short circuit input current (Amps) 3*50 MPPT number/Max input strings number 3/6 Classification AFCI Type: F-I-AFPE-1-4/2-1 No. of monitored strings per input port 1 No. of monitored channels 2 Rated channel current (Amps) 16 Rated channel current (Amps) 16 Rated interruption current (Amps) 16 Rated output power (Watts) 30000 Max. apparent output power (VA) 30000 Rated grid outage (Volts) 3/N/PE, 220/380, 230/400 Rated grid output current (Amps) 45.6/43.3 Power Factor (at rated output power) 0.8leading-0.8lagging THDi (at rated output power) 355/625*250mm Max. efficiency 98.0% Dimensions (W"H*D) 355/625*250mm Weight 25.5kg	Model	S6-GC3P30K03-NV-ND
Start-up voltage (Volts)180MPPT voltage range (Volts)180-1000Max. input power per MPPT (Watts)25000Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated channel current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. output power (Watts)30000Max. output power (Watts)3/N/PE, 220/380, 230/400Rated grid outgag (Volts)3/N/PE, 220/380, 230/400Rated grid outgag (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)3%EU efficiency98.5%EU efficiency98.5%EU efficiency98.5%EU efficiency98.5%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max. DC input voltage (Volts)	1100
MPPT voltage range (Volts)180-1000Max. input power per MPPT (Watts)25000Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. apparent output power (VAIts)30000Max. apparent output power (VA)30000Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)3%Rated grid frequency (Hertz)50/60Max. efficiency98.5%EU efficiency98.5%EU efficiency98.5%EU efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Rated DC voltage (Volts)	600
Max. input power per MPPT (Watts) 25000 Max. input current (Amps) 3*40 Max short circuit input current (Amps) 3*50 MPPT number/Max input strings number 3/6 Classification AFCI Type: F-I-AFPE-1-4/2-1 No. of monitored strings per input port 1 No. of monitored channels 2 Rated channel curente (Amps) 64/32 Maximum current per input port (Amps) 16 Rated interruption current (Amps) 16 Rated output power (Watts) 30000 Max. output power (Watts) 30000 Max. output current (Amps) 45.6/43.3 Rated grid output current (Amps) 45.6/43.3 Power Factor (at rated output power) 0.8leading-0.8leading Power Factor (at rated output power) -3% Rated grid frequency (Hertz) 50/60 Max. efficiency 98.5% EU efficiency 98.0% Dimensions (W'H*D) 355*625*250mm Weight 25.5kg Topology Transformerless Self consumption (Night) <1W	Start-up voltage (Volts)	180
Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. output power (Watts)30000Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)-3%Rated grid frequency (Hertz)50/60Max. efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	MPPT voltage range (Volts)	180~1000
Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid output current (Amps)45.6/43.3Max. apparent output power (VA)30000Rated grid output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)33%Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.5%EU efficiency98.5%Self consumption (Night)<1W	Max. input power per MPPT (Watts)	25000
MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of input ports per channel4/2No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)50/60Max.efficiency98.5%EU efficiency98.5%EU efficiency98.0%Dimensions (W"H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max. input current (Amps)	3*40
ClassificationAFCI Type: F-I-AFPE-1-4/2-1No.of monitored strings per input port1No.of input ports per channel4/2No.of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. output power (Watts)30000Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)50/60Max. efficiency98.5%EU efficiency98.5%Dimensions (W"H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max short circuit input current (Amps)	3*50
No. of monitored strings per input port1No. of input ports per channel4/2No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	MPPT number/Max input strings number	3/6
No. of input ports per channel4/2No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)33%Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.6%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Classification	AFCI Type: F-I-AFPE-1-4/2-1
No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)3%Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.6%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	No.of monitored strings per input port	1
Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	No.of input ports per channel	4/2
Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	No.of monitored channels	2
Rated interruption current (Amps)16Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated channel curente (Amps)	64/32
Rated output power (Watts)30000Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)3%Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Maximum current per input port (Amps)	16
Max. output power (Watts)30000Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated interruption current (Amps)	16
Max. apparent output power (VA)30000Rated grid voltage (Volts)3/N/PE, 220/380, 230/400Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated output power (Watts)	30000
Rated grid voltage (Volts) $3/N/PE, 220/380, 230/400$ Rated grid output current (Amps) $45.6/43.3$ Max. output current (Amps) $45.6/43.3$ Power Factor (at rated output power) 0.8 leading~ 0.8 laggingTHDi (at rated output power) $<3\%$ Rated grid frequency (Hertz) $50/60$ Max.efficiency 98.5% EU efficiency 98.0% Dimensions (W*H*D) $355*625*250$ mmWeight 25.5 kgTopologyTransformerlessSelf consumption (Night) $<1W$ Operating ambient temperature range $-25°C \sim +60°C$ Relative humidity $0 \sim 100\%$ Ingress protectionIPotective classINoise emission (Typical) ≤ 60 dB (A)Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	Max. output power (Watts)	30000
Rated grid output current (Amps)45.6/43.3Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Max. apparent output power (VA)	30000
Max. output current (Amps)45.6/43.3Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated grid voltage (Volts)	3/N/PE, 220/380, 230/400
Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated grid output current (Amps)	45.6/43.3
THDi (at rated output power)<3%Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max. output current (Amps)	45.6/43.3
Rated grid frequency (Hertz)50/60Max.efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Power Factor (at rated output power)	0.8leading~0.8lagging
Max.efficiency98.5%EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	THDi (at rated output power)	<3%
EU efficiency98.0%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Rated grid frequency (Hertz)	50/60
Dimensions (W*H*D) 355*625*250mm Weight 25.5kg Topology Transformerless Self consumption (Night) <1W	Max.efficiency	98.5%
Weight $25.5kg$ TopologyTransformerlessSelf consumption (Night) $<1W$ Operating ambient temperature range $-25^{\circ}C^{-+60^{\circ}C}$ Relative humidity $0^{-100\%}$ Ingress protectionIP66Protective classINoise emission (Typical) $\leq 60 dB (A)$ Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	EU efficiency	98.0%
Topology Transformerless Self consumption (Night) < 1W	Dimensions (W*H*D)	355*625*250mm
Self consumption (Night)< 1WOperating ambient temperature range-25°C~+60°CRelative humidity0~100%Ingress protectionIP66Protective classINoise emission (Typical)≤60 dB (A)Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	Weight	25.5kg
Operating ambient temperature range-25°C~+60°CRelative humidity0~100%Ingress protectionIP66Protective classINoise emission (Typical)≤60 dB (A)Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	Topology	Transformerless
Relative humidity0~100%Ingress protectionIP66Protective classINoise emission (Typical)≤60 dB (A)Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	Self consumption (Night)	< 1W
Ingress protection IP66 Protective class I Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Operating ambient temperature range	-25℃~+60℃
Protective class I Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Relative humidity	0~100%
Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Ingress protection	IP66
Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Protective class	I
Overvoltage category DC II, AC III	Noise emission (Typical)	≤60 dB (A)
	Cooling concept	Intelligent redundant fan-cooling
Max.operation altitude 4000m	Overvoltage category	DC II, AC III
	Max.operation altitude	4000m

Model	S6-GC3P30K03-NV-ND
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530
Safty/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
DC connection	MC4 connector
AC connection	OT Terminal
Display	LED digital display & LED indicator
Communication connections	RS485, Optional: Wifi, GPRS
Warranty	5 years (extend to 20 years)
AC Current(inrush)	Peak current: 5.47A Duration: 5ms
Grid type	TN,TT(For-NV) IT(For-LV,HV)
Max. inverter backfeed current to the array	0A

Model	S6-GC3P33K03-NV-ND
Max. DC input voltage (Volts)	1100
Rated DC voltage (Volts)	600
Start-up voltage (Volts)	180
MPPT voltage range (Volts)	180~1000
Max. input power per MPPT (Watts)	25000
Max. input current (Amps)	3*40
Max short circuit input current (Amps)	3*50
MPPT number/Max input strings number	3/6
Rated output power (Watts)	33000
Max. output power (Watts)	33000
Max. apparent output power (VA)	33000
Rated grid voltage (Volts)	3/N/PE, 220/380, 230/400
Rated grid output current (Amps)	50.1/47.6
Max. output current (Amps)	50.1/47.6
Power Factor (at rated output power)	0.8leading~0.8lagging
THDi (at rated output power)	<3%
Rated grid frequency (Hertz)	50/60
Max.efficiency	98.5%
EU efficiency	98.0%
Dimensions (W*H*D)	355*625*250mm
Weight	26.5kg
Topology	Transformerless
Self consumption (Night)	< 1W
Operating ambient temperature range	-25℃~+60℃
Relative humidity	0~100%
Ingress protection	IP66
Protective class	I
Noise emission (Typical)	≤60 dB (A)
Cooling concept	Intelligent redundant fan-cooling
Overvoltage category	DC II, AC III
Max.operation altitude	4000m

Model	S6-GC3P33K03-NV-ND
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530
Safty/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
DC connection	MC4 connector
AC connection	OT Terminal
Display	LED digital display & LED indicator
Communication connections	RS485, Optional: Wifi, GPRS
Warranty	5 years (extend to 20 years)
AC Current(inrush)	Peak current: 5.47A Duration: 5ms
Grid type	TN,TT(For-NV) IT(For-LV,HV)
Max. inverter backfeed current to the array	0A

Model	S6-GC3P36K03-NV-ND
Max. DC input voltage (Volts)	1100
Rated DC voltage (Volts)	600
Start-up voltage (Volts)	180
MPPT voltage range (Volts)	180~1000
Max. input power per MPPT (Watts)	25000
Max. input current (Amps)	3*40
Max short circuit input current (Amps)	3*50
MPPT number/Max input strings number	3/6
Rated output power (Watts)	36000
Max. output power (Watts)	36000
Max. apparent output power (VA)	36000
Rated grid voltage (Volts)	3/N/PE, 220/380, 230/400
Rated grid output current (Amps)	54.7/52.0
Max. output current (Amps)	54.7/52.0
Power Factor (at rated output power)	0.8leading~0.8lagging
THDi (at rated output power)	<3%
Rated grid frequency (Hertz)	50/60
Max.efficiency	98.5%
EU efficiency	98.0%
Dimensions (W*H*D)	355*625*250mm
Weight	26.5kg
Topology	Transformerless
Self consumption (Night)	< 1W
Operating ambient temperature range	-25℃~+60℃
Relative humidity	0~100%
Ingress protection	IP66
Protective class	I
Noise emission (Typical)	≤60 dB (A)
Cooling concept	Intelligent redundant fan-cooling
Overvoltage category	DC II, AC III
Max.operation altitude	4000m

Model	S6-GC3P36K03-NV-ND
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1 CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530
Safty/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
DC connection	MC4 connector
AC connection	OT Terminal
Display	LED digital display & LED indicator
Communication connections	RS485, Optional: Wifi, GPRS
Warranty	5 years (extend to 20 years)
AC Current(inrush)	Peak current: 5.47A Duration: 5ms
Grid type	TN,TT(For-NV) IT(For-LV,HV)
Max. inverter backfeed current to the array	0A

Model	S6-GC3P40K03-HV-ND
Max. DC input voltage (Volts)	1100
Rated DC voltage (Volts)	720
Start-up voltage (Volts)	180
MPPT voltage range (Volts)	180~1000
Max. input power per MPPT (Watts)	25000
Max. input current (Amps)	3*40
Max short circuit input current (Amps)	3*50
MPPT number/Max input strings number	3/6
Rated output power (Watts)	40000
Max. output power (Watts)	40000
Max. apparent output power (VA)	40000
Rated grid voltage (Volts)	3/PE, 480
Rated grid output current (Amps)	48.1
Max. output current (Amps)	48.1
Power Factor (at rated output power)	0.8leading~0.8lagging
THDi (at rated output power)	<3%
Rated grid frequency (Hertz)	50/60
Max.efficiency	98.6%
EU efficiency	98.1%
Dimensions (W*H*D)	355*625*250mm
Weight	26.5kg
Topology	Transformerless
Self consumption (Night)	< 1W
Operating ambient temperature range	-25℃~+60℃
Relative humidity	0~100%
Ingress protection	IP66
Protective class	I
Noise emission (Typical)	≤60 dB (A)
Cooling concept	Intelligent redundant fan-cooling
Overvoltage category	DC II, AC III
Max.operation altitude	4000m

Model	S6-GC3P40K03-HV-ND
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1 CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530
Safty/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
DC connection	MC4 connector
AC connection	OT Terminal
Display	LED digital display & LED indicator
Communication connections	RS485, Optional: Wifi, GPRS
Warranty	5 years (extend to 20 years)
AC Current(inrush)	Peak current: 5.47A Duration: 5ms
Grid type	TN,TT(For-NV) IT(For-LV,HV)
Max. inverter backfeed current to the array	0A

Max. DC input voltage (Volts)1100Rated DC voltage (Volts)360Start-up voltage (Volts)180MPT voltage range (Volts)180-1000Max. input power per MPPT (Watts)25000Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximu current per input port (Amps)16Rated channel current (Amps)16Rated channel current (Amps)16Rated output power (Watts)15000Max. apparent output power (VA)15000Max. apparent output power (VA)3/9/E, 220/230Rated grid outgag (Volts)3/9/E, 220/230Rated grid outgag (Volts)3/9/E, 220/230Rated grid outgag (Volts)39.4/37.7Power Factor (at rated output power)<3%Classification97.3%Dimensions (W*H*D)355/625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1WOperating ambient (Emperature range-25°C+-60°CRelative humidity0100%Intelligent redundant fan-coolingOvervoltage categoryOutgrup to categoryDC III, AC IIIMax. operation altitude4000m	Model	S6-GC3P15K03-LV-ND
Start-up voltage (Volts)180MPPT voltage range (Volts)180-1000Max. input power per MPPT (Watts)25000Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. output power (Watts)3/9/2.200Rated grid outgue (Volts)3/9/2.200Rated grid outgue (Volts)3/9/2.77Max. output current (Amps)39.4/37.7Power Factor (at rated output power)<3%	Max. DC input voltage (Volts)	1100
MPPT voltage range (Volts)180-1000Max. input power per MPPT (Watts)25000Max. input current (Amps)3'40Max short circuit input current (Amps)3'50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)15000Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)335'625'250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Rated DC voltage (Volts)	360
Max. input power per MPPT (Watts)25000Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel currente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading-0.8leagingTHDi (at rated output power)3.9.4/37.7Power Factor (at rated output power)3.9.4/37.7Max. efficiency97.3%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Start-up voltage (Volts)	180
Max. input current (Amps)3*40Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. output power (Watts)3'/PE, 220/230Rated grid output current (Amps)3/PE, 220/230Rated grid output current (Amps)3.9.4/37.7Max. output current (Amps)3.9.4/37.7Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)4.3%EU efficiency97.8%EU efficiency97.3%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	MPPT voltage range (Volts)	180~1000
Max short circuit input current (Amps)3*50MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of monitored channels2Rated channel current (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid output current (Amps)3/FE, 220/230Rated grid output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)93.4/37.7Power Factor (at rated output power)33%Rated grid frequency (Hertz)50/60Max.efficiency97.8%EU efficiency97.8%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max. input power per MPPT (Watts)	25000
MPPT number/Max input strings number3/6ClassificationAFCI Type: F-I-AFPE-1-4/2-1No. of monitored strings per input port1No. of input ports per channel4/2No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid output current (Amps)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)3/%Rated grid frequency (Hertz)50/60Max.efficiency97.3%Dimensions (W"H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max. input current (Amps)	3*40
ClassificationAFCI Type: F-I-AFPE-1-4/2-1No.of monitored strings per input port1No.of input ports per channel4/2No.of monitored channels2Rated channel curent (Amps)64/32Maximum current per input port (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. output power (Watts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)30/60Max.efficiency97.3%Dimensions (W"H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max short circuit input current (Amps)	3*50
No. of monitored strings per input port1No. of input ports per channel4/2No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. output power (Watts)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	MPPT number/Max input strings number	3/6
No.of input ports per channel4/2No.of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid voltage (Volts)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)33%Rated grid frequency (Hertz)50/60Max.efficiency97.8%EU efficiency97.3%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Classification	AFCI Type: F-I-AFPE-1-4/2-1
No. of monitored channels2Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	No.of monitored strings per input port	1
Rated channel curente (Amps)64/32Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading-0.8laggingTHDi (at rated output power)<3%	No.of input ports per channel	4/2
Maximum current per input port (Amps)16Rated interruption current (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	No.of monitored channels	2
Rated interruption current (Amps)16Rated output power (Watts)15000Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated channel curente (Amps)	64/32
Rated output power (Watts)15000Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Maximum current per input port (Amps)	16
Max. output power (Watts)15000Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated interruption current (Amps)	16
Max. apparent output power (VA)15000Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated output power (Watts)	15000
Rated grid voltage (Volts)3/PE, 220/230Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Max. output power (Watts)	15000
Rated grid output current (Amps)39.4/37.7Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Max. apparent output power (VA)	15000
Max. output current (Amps)39.4/37.7Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated grid voltage (Volts)	3/PE, 220/230
Power Factor (at rated output power)0.8leading~0.8laggingTHDi (at rated output power)<3%	Rated grid output current (Amps)	39.4/37.7
THDi (at rated output power)<3%Rated grid frequency (Hertz)50/60Max.efficiency97.8%EU efficiency97.3%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max. output current (Amps)	39.4/37.7
Rated grid frequency (Hertz)50/60Max.efficiency97.8%EU efficiency97.3%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Power Factor (at rated output power)	0.8leading~0.8lagging
Max.efficiency97.8%EU efficiency97.3%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	THDi (at rated output power)	<3%
EU efficiency97.3%Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Rated grid frequency (Hertz)	50/60
Dimensions (W*H*D)355*625*250mmWeight25.5kgTopologyTransformerlessSelf consumption (Night)<1W	Max.efficiency	97.8%
Weight $25.5kg$ TopologyTransformerlessSelf consumption (Night) $<1W$ Operating ambient temperature range $-25^{\circ}C^{-+60^{\circ}C}$ Relative humidity $0^{-100\%}$ Ingress protectionIP66Protective classINoise emission (Typical) $\leq 60 \text{ dB (A)}$ Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	EU efficiency	97.3%
Topology Transformerless Self consumption (Night) <1W	Dimensions (W*H*D)	355*625*250mm
Self consumption (Night)< 1WOperating ambient temperature range-25°C~+60°CRelative humidity0~100%Ingress protectionIP66Protective classINoise emission (Typical)≤60 dB (A)Cooling conceptIntelligent redundant fan-coolingOvervoltage categoryDC II, AC III	Weight	25.5kg
Operating ambient temperature range -25°C~+60°C Relative humidity 0~100% Ingress protection IP66 Protective class I Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Topology	Transformerless
Relative humidity 0~100% Ingress protection IP66 Protective class I Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Self consumption (Night)	< 1W
Ingress protection IP66 Protective class I Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Operating ambient temperature range	-25℃~+60℃
Protective class I Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Relative humidity	0~100%
Noise emission (Typical) ≤60 dB (A) Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Ingress protection	IP66
Cooling concept Intelligent redundant fan-cooling Overvoltage category DC II, AC III	Protective class	I
Overvoltage category DC II, AC III	Noise emission (Typical)	≤60 dB (A)
	Cooling concept	Intelligent redundant fan-cooling
Max.operation altitude 4000m	Overvoltage category	DC II, AC III
	Max.operation altitude	4000m

Model	S6-GC3P15K03-LV-ND
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1 CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530
Safty/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
DC connection	MC4 connector
AC connection	OT Terminal
Display	LED digital display & LED indicator
Communication connections	RS485, Optional: Wifi, GPRS
Warranty	5 years (extend to 20 years)
AC Current(inrush)	Peak current: 5.47A Duration: 5ms
Grid type	TN,TT(For-NV) IT(For-LV,HV)
Max. inverter backfeed current to the array	0A

Model	S6-GC3P20K03-LV-ND
Max. DC input voltage (Volts)	1100
Rated DC voltage (Volts)	360
Start-up voltage (Volts)	180
MPPT voltage range (Volts)	180~1000
Max. input power per MPPT (Watts)	25000
Max. input current (Amps)	3*40
Max short circuit input current (Amps)	3*50
MPPT number/Max input strings number	3/6
Classification	AFCI Type: F-I-AFPE-1-4/2-1
No.of monitored strings per input port	1
No.of input ports per channel	4/2
No.of monitored channels	2
Rated channel curente (Amps)	64/32
Maximum current per input port (Amps)	16
Rated interruption current (Amps)	16
Rated output power (Watts)	20000
Max. output power (Watts)	20000
Max. apparent output power (VA)	20000
Rated grid voltage (Volts)	3/PE, 220/230
Rated grid output current (Amps)	52.5/50.2
Max. output current (Amps)	52.5/50.2
Power Factor (at rated output power)	0.8leading~0.8lagging
THDi (at rated output power)	<3%
Rated grid frequency (Hertz)	50/60
Max.efficiency	97.8%
EU efficiency	97.3%
Dimensions (W*H*D)	355*625*250mm
Weight	26.5kg
Topology	Transformerless
Self consumption (Night)	< 1W
Operating ambient temperature range	-25℃~+60℃
Relative humidity	0~100%
Ingress protection	IP66
Protective class	I
Noise emission (Typical)	≤60 dB (A)
Cooling concept	Intelligent redundant fan-cooling
Overvoltage category	DC II, AC III
Max.operation altitude	4000m

Model	S6-GC3P20K03-LV-ND
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1 CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530
Safty/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
DC connection	MC4 connector
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