

ON-GRID INVERTER

INS-SI-3.6 INS-SI-4.2 INS-SI-5 INS-SI-6



Quick Installation Guide

ENGLISH VERSION



1 Installation



R

Check Packing List



*There are two versions of the COM2 connector, please select the appropriate version according to the order requirements. **Optional

Installation Location



Installation Space









Electrical Wiring Diagram



Electrical wiring diagram of export limit



Electrical wiring diagram of export limit & 24 hours load consumption





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PV String Connection



D Monitoring Device Installation



If the inverter is connected to the Datalogger and SK, the Monitoring Device does not need to be connected, and refer to the Datalogger or SK manual to connect it to the internet.

SK installation (Optional)



| | Definition | Function |
|---------|------------|---------------------------|
| 5 | L-S1 | |
| 6 | L-S2 | To detect the CT current |
| 7-10 | / | |
| 11 | PE | Ground Connection |
| 1 | L | |
| 2-3 | / | detect power grid voltage |
| 4 | Ν | |
| RS485-1 | RS485 | Communicate with inverter |
| RS485-2 | / | Reserved |

SK terminals definition

Communication connection (Basic version)

| Location hole | Pin | Definition | Function |
|---------------|-----|------------|-------------------|
| -th | 1 | RS485-A1 | |
| 3-4 | 2 | RS485-A2 | Communicate with |
| 5 | 3 | RS485-A1 | SK or Datalogger. |
| 21 | 4 | RS485-A2 | • |
| , | 5 | / | Reserved |



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G Communication connection (Extended version)

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|---|---|--------|----|--------|--------|
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| Ø | ø | ø | Ő | Ö | :0 |
| É | * | • | | | |



| Pin | Definition | Function |
|-----|-------------|--|
| 1 | RS 485 A2 | Description |
| 2 | RS 485 B2 | Keserved |
| 3 | Fast stop + | Description |
| 4 | Fast stop - | Keserveu |
| 5 | Dipswitch-1 | Reserved |
| 6 | Dipswitch-2 | 120Ω terminating resistor dipswitch between RS 485 A1 and RS 485 B1 |
| 7 | CT-S1 | Detection of CT exceeds for every tiles it |
| 8 | CT-S2 | Detection of CT current for export limit |
| 9 | RS 485 A1 | (1) Communicate with SK |
| 10 | RS 485 B1 | for export limit & 24 hours load consumption. |
| 11 | RS 485 A1 | ② In case of multiple inverters, |
| 12 | RS 485 B1 | all the inverters can be daisy-chained via RS485 cables. |
| 13 | 1 | Devend |
| 14 | 1 | n Keservea |
| 15 | COM D/0 | |
| 16 | REF D/0 | |
| 17 | DRM4/8 | Perspired |
| 18 | DRM3/7 | i neselveu |
| 19 | DRM2/6 | |
| 20 | DRM1/5 | |







2 WiFi Module Configuration Guide



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Click and select the corresponding router network you want to configure.



6

Input the password of wireless network, (note the case difference), Tap"Connect"



7

If connected successfully "Connec – tion succeeded" will displayed. After successful configure, the indicator status of WIFI module will be steady on.

| | Connection succe | oded | <u> </u> |
|--|---|---------------------------------|-----------------------|
| | | | |
| ne: Please note vice which ope | that if your target A ns the web pages, yo | P is the hotsp u may not res | st of the eive the |
| te: Please note sice which ope i Fi connection Wi-F | Connect that if your target A as the web pages, yo result. | P is the hotop a may not ree | s of the eive the |
| te: Please note ice which op Fi connection Wi-F | Connect that if your target A as the web pages, yo result. | P is the hotop a may not rea | t of the eive the |

3 LAN Module Configuration Guide

If DHCP is enabled on the router, the LAN module does not need to be configured. Otherwise, the LAN module will need to be configured on inverter screen.

1 Find the "General Settings" by short pressing the button on the inverter screen.

0 Enter the "General Settings" by long pressing the button on the inverter screen.

③ Find "DHCP set" by short pressing the button, then turn off DHCP function by short pressing and long pressing the button on the inverter screen.

(a) Then set the "IP Address", "Gateway Address", "Subnet Mask" and "DNS Address". Short press to change the number, long press to confirm the number and jump to the next number.



4 Create Plant&Add Device-APP

InstaGen APP has the portable version of the platform, allowing people to install it on their phones for monitoring and management of their devices and plants anytime, anywhere.



Create Plant



3

Complete the required information, with an asterisk (*) indicating mandatory fields. *Select the organization to which the plant belongs.

**Basic information of the plant.

| Enganization code | * |
|---|------|
| Plast same | ** |
| Part address | |
| betailed address | |
| dourschape. Yoge Manda, Britels (Vrgin Manda, Britels) | |
| Timpon UTC=07.08 | |
| Entransmittentine 2021ka1 81 | |
| Plast type | |
| Capacity | imp |
| Bottory capacity | ioth |
| Recover. | |
| itotus mi D 1.0 | |
| the period D 1.0 | 6 |
| Plant cover | |

4)

The new plant will be created.



Create Plant



Input or scan the SN code and Check code, and name the device.





5 Indicator

A Inverter

| ltem | Indicator | Status | | Description | |
|------|---|---|---|--|--|
| | | Off | | No power. | |
| | | | Quick flashing | Inverter entered self-test status. | |
| 1 | Power and | Green | Slow flashing | Inverter entered waiting status. | |
| | Alarm Indicator | | Breathe flashing | Inverter works normal. | |
| | | Red | Always on | An alarm or fault is detected, view the fault info on the display. | |
| | | Off | Grid lost. | <u> </u> | |
| 2 | Grid Indicator | Slow flashing | Inverter detected grid but not running in on-grid mode. | | |
| | indicator | Always on | Inverter works in o | n-grid mode. | |
| 2 | Communica- tion Indicator | Green | Always on | The inverter communication is running nor- mally. | |
| 3 | | Green | Flashing | The inverter communicates with datalogger or SK through RS485. | |
| 4 | Display | Display off to save power, press the button to wake up the display. | | | |
| 5 | 5 Button Switch display information and set p | | | arameters by short press or long press. | |

B Monitoring Device

| Indicator Status | Description |
|------------------|--|
| Off | Connection abnormal |
| Always On | Communicate with the server normally |
| Slow flashing | The monitoring device is not connected to the router or is not connected to the base station. |
| Quick flashing | The monitoring device is connected to the router or connected to the base station but not connected to the server. |

| Button | Description |
|----------------|--|
| Press 1 second | Reset device, the indicator goes off for 2 seconds, then flashes normally. |
| Press 5 second | Restore factory default settings, the indicator goes off for 2 seconds, then flashes once every 2 seconds, until the factory restore is completed. |





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