




InstaGen INS-SI-3.6 String Inverter Installation Guide

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InstaGen INS-SI-3.6 String Inverter

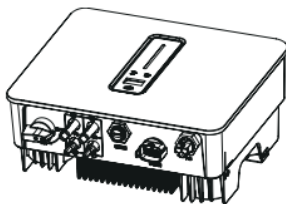
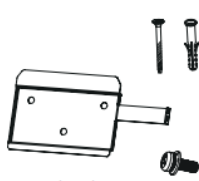
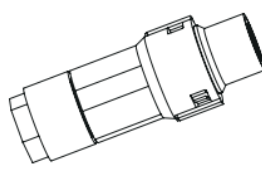
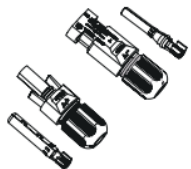
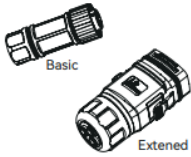
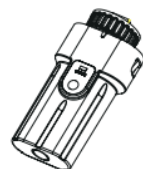

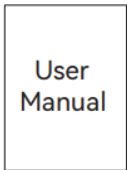
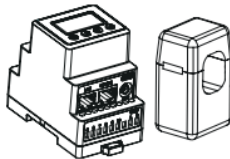


Specifications

- Model Numbers: INS-SI-3.6, INS-SI-4.2, INS-SI-5, INS-SI-6
- Installation: On-Grid
- Wire Diameter: 9~15mm
- Cross-sectional Area: 4~6mm²

Installation

Check Packing List

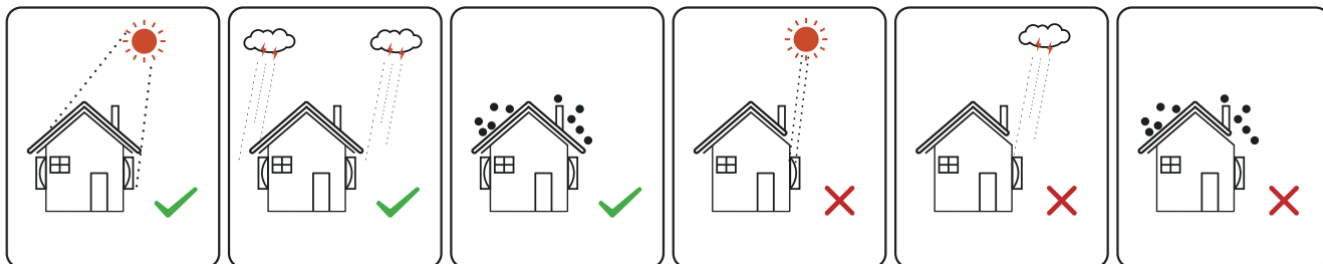
 <p>Inverter (1pcs)*</p>	 <p>Wall-mounting bracket (1pcs) Expansion plug set (3pcs) M5 screws (1pcs)</p>	 <p>AC connector set (1pcs)</p>
 <p>PV terminal (2 pairs)</p>	 <p>COM2 connector set (1pcs) *</p>	 <p>Monitoring device (1pcs)</p>
 <p>PE terminal (1pcs)</p>	 <p>User guide</p>	 <p>SK with 1 CT (1pcs) or 1CT (1pcs)**</p>

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

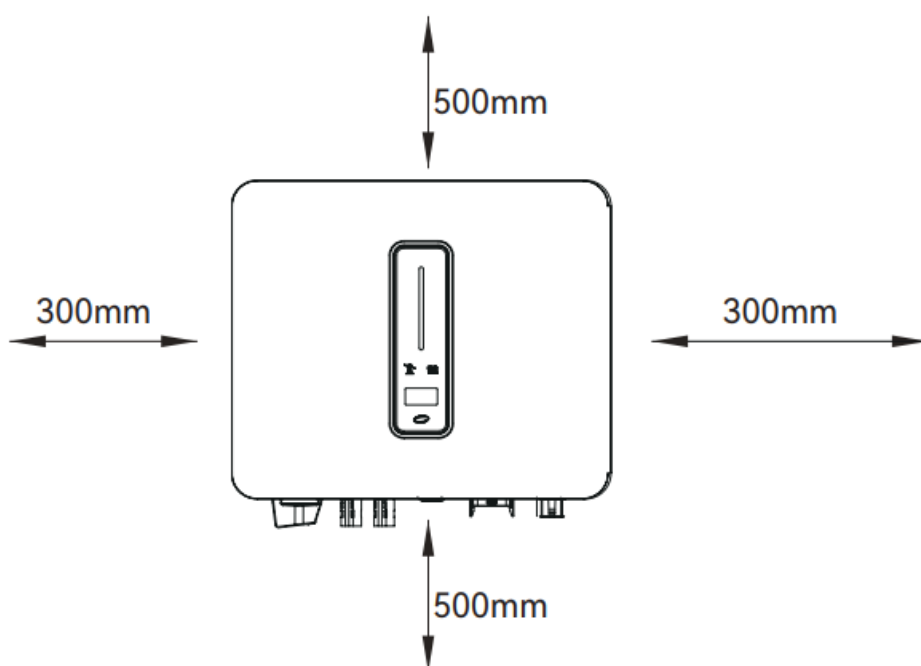
requirements.

**Optional

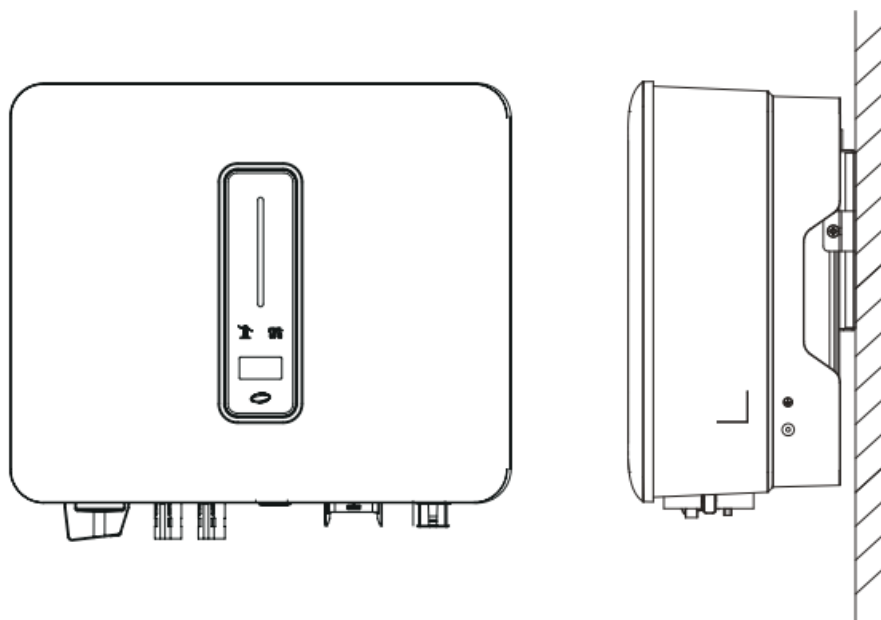
Installation Location



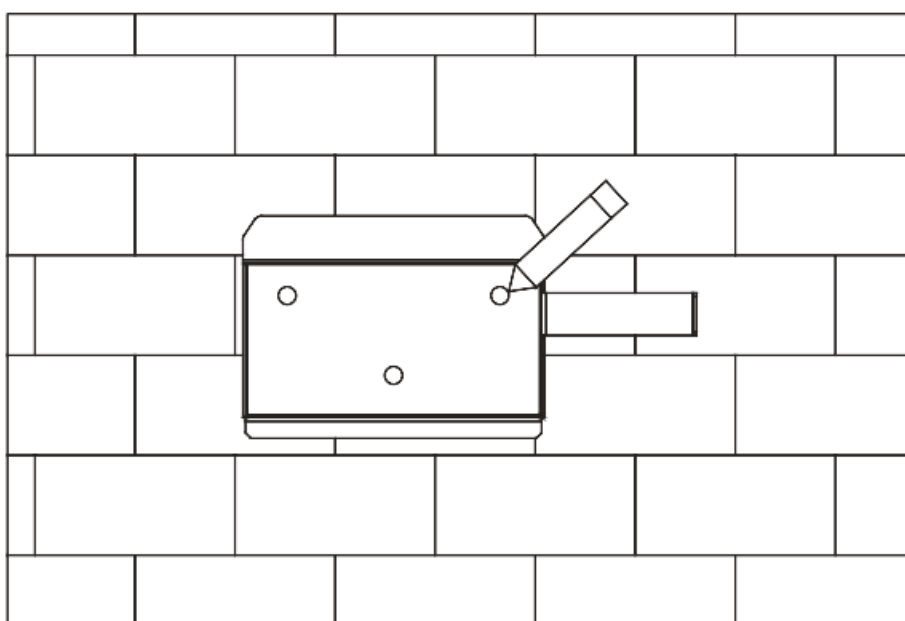
Installation Space



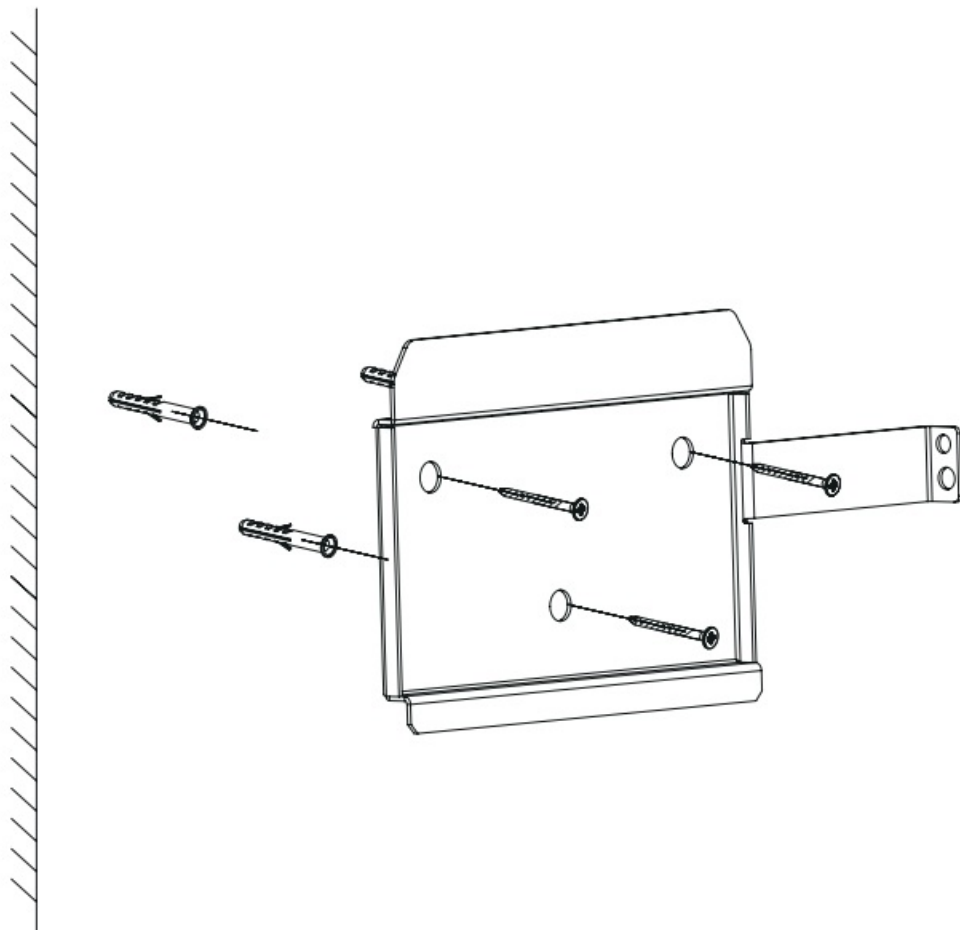
Installation Angle



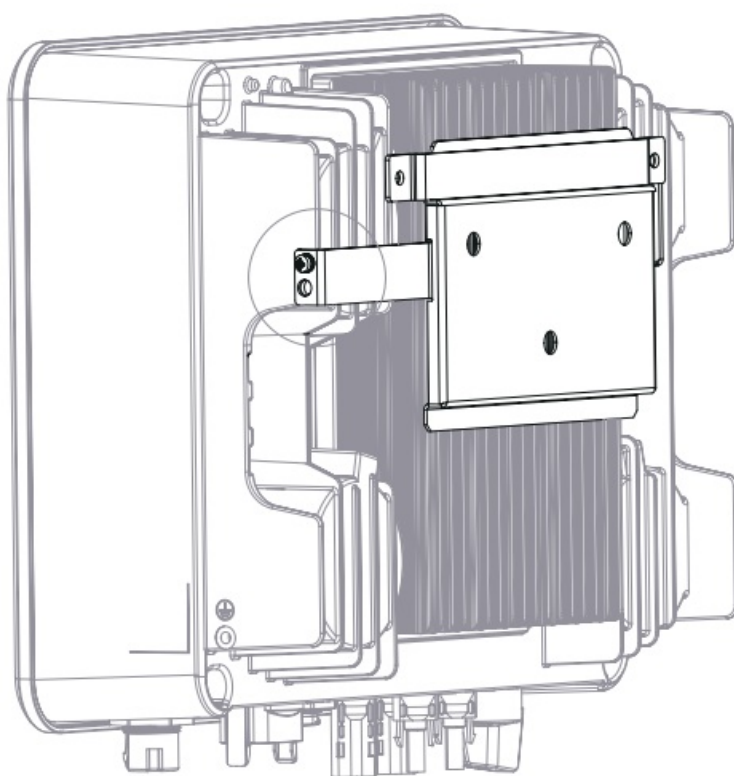
Mark the Position and Drill Holes



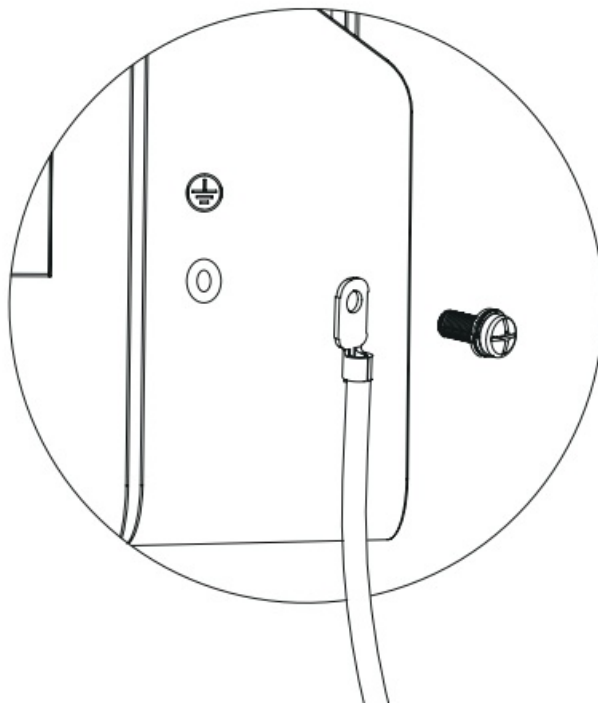
Fix Wall Bracket



Mounting Inverter

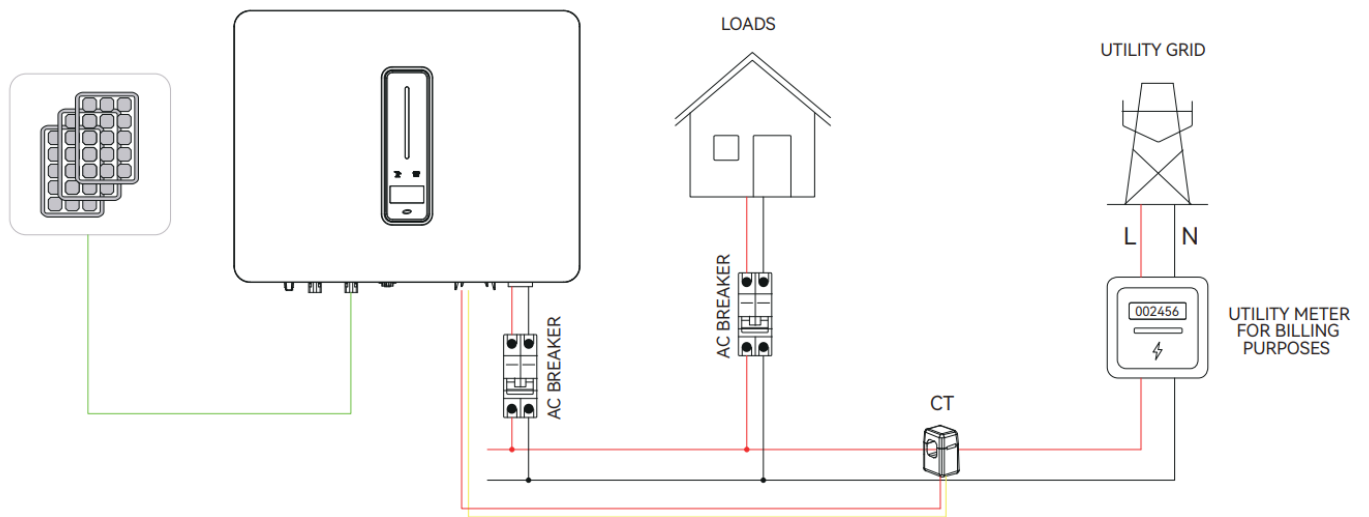


Grounding Terminal Connection

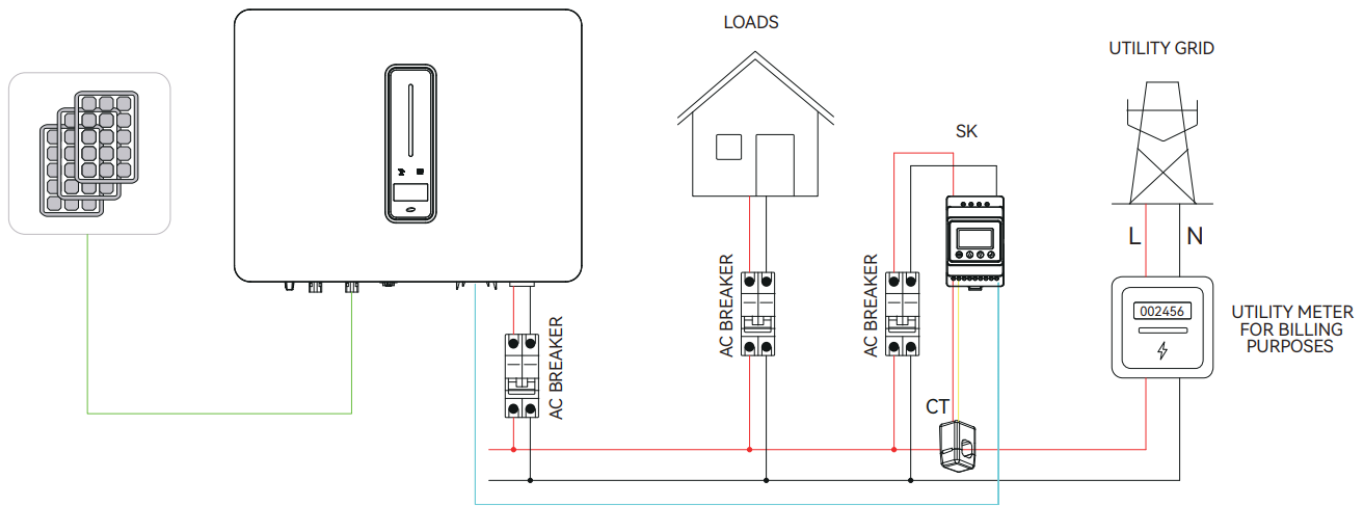


Electrical Connection

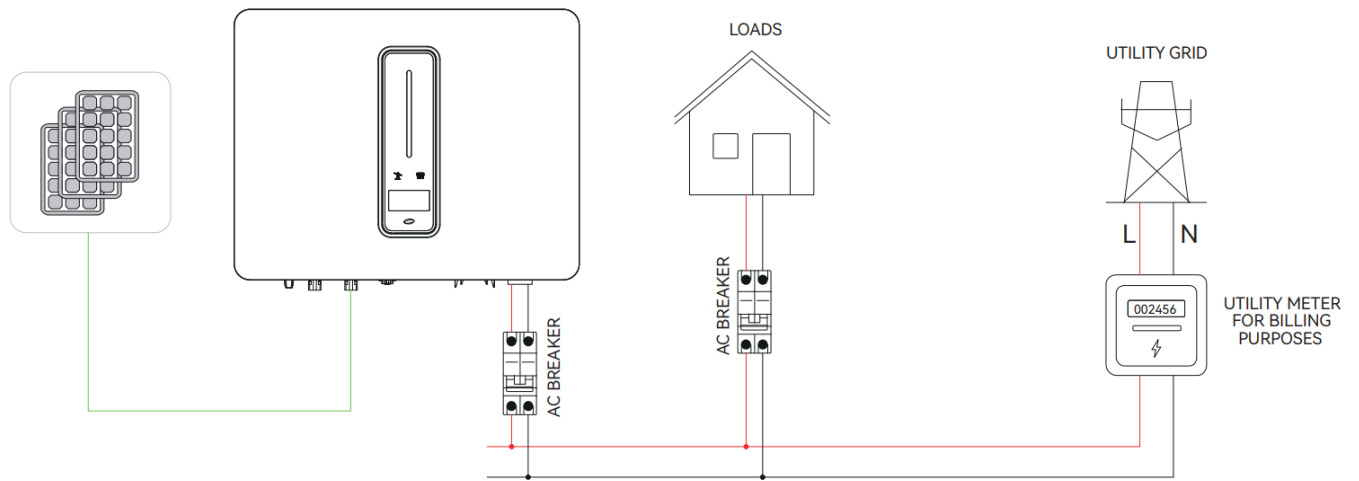
Electrical Wiring Diagram



Electrical wiring diagram of export limit

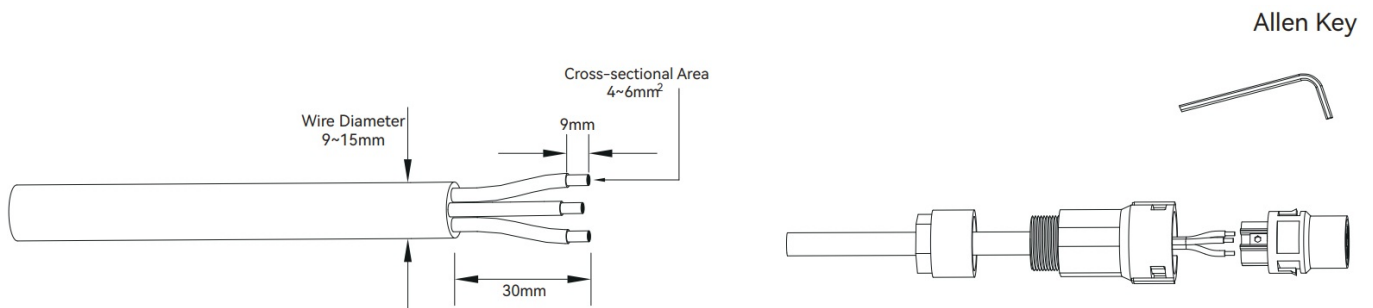


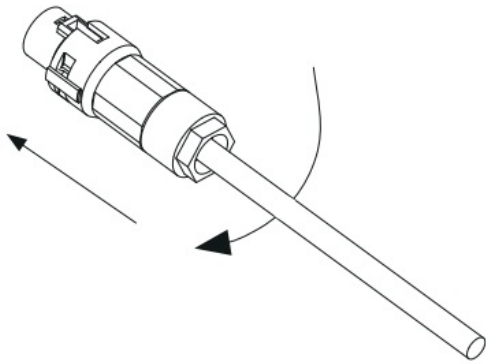
Electrical wiring diagram of export limit & 24 hours load consumption



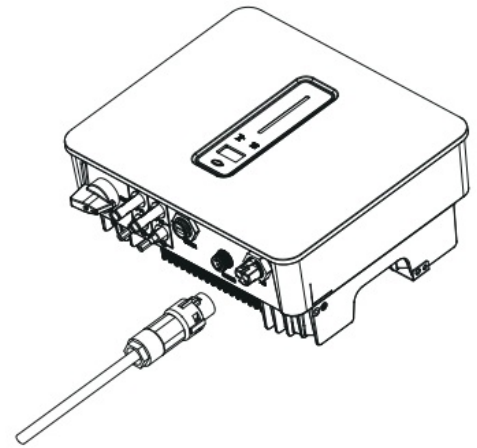
Electrical Wiring Diagram

AC Connection



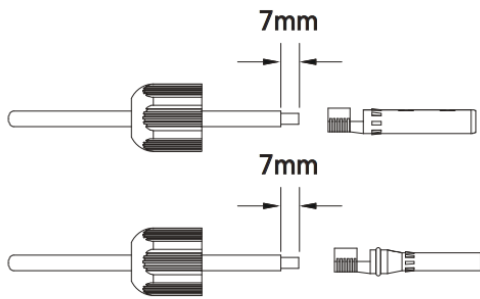


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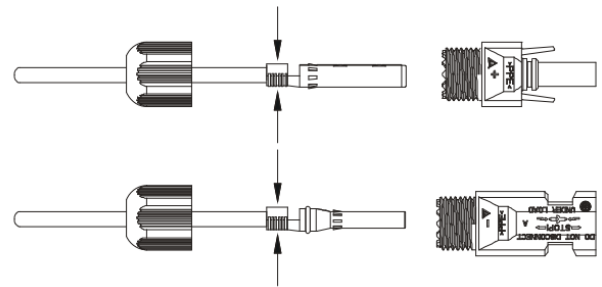
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PV String Connection



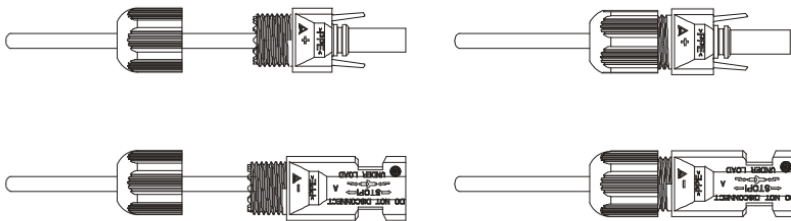
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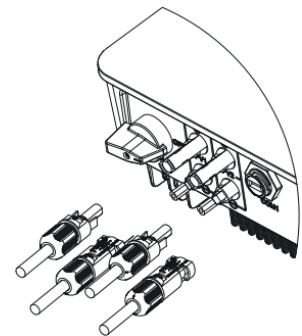


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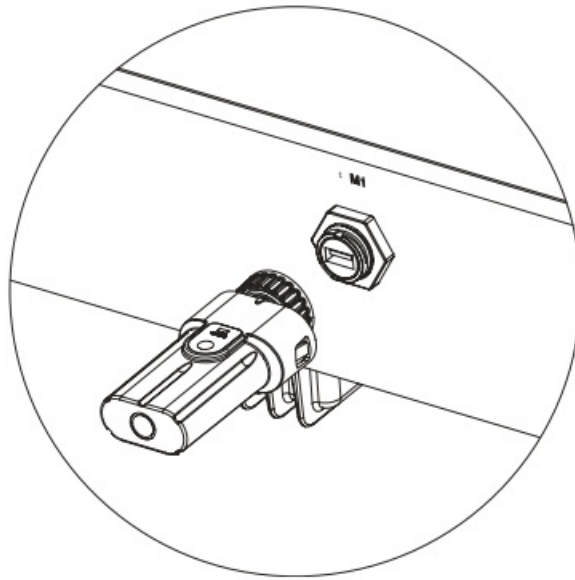
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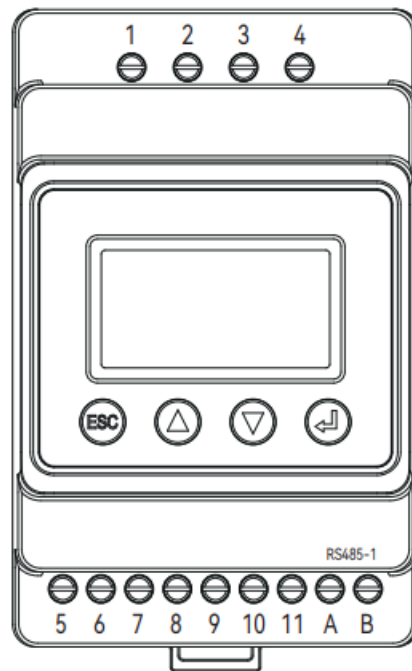
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Monitoring Device Installation

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.



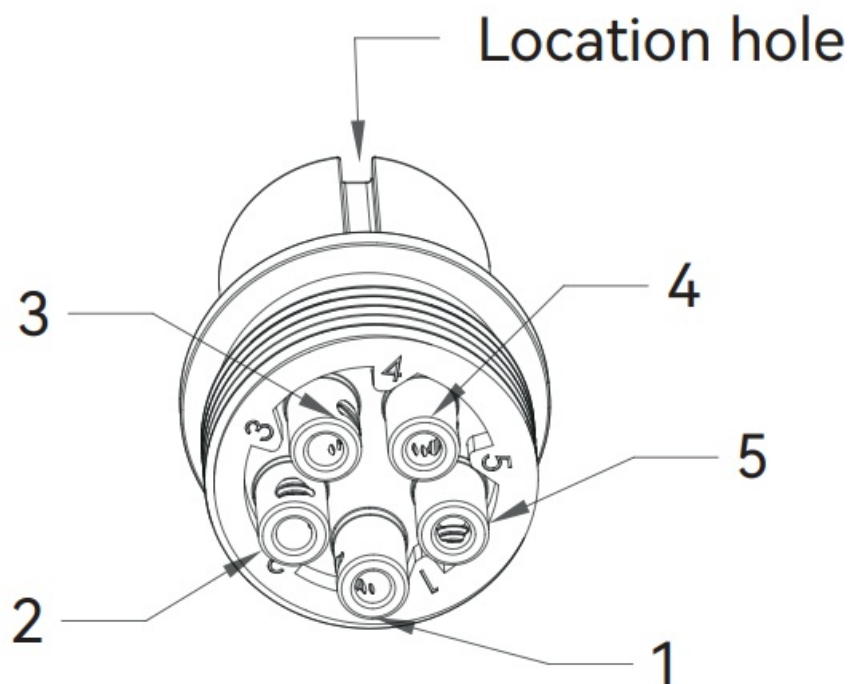
SK installation (Optional)



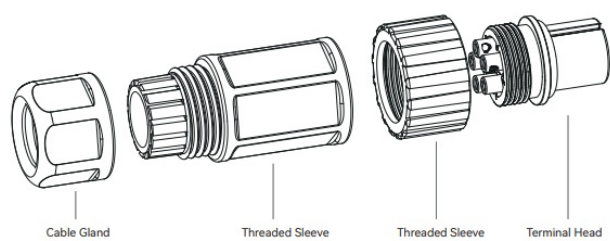
No.	Definition	Function
5	L-S1	To detect the CT current
6	L-S2	
7-10	/	
11	PE	Ground Connection
1	L	L /N connect to grid to detect power grid voltage
2-3	/	
4	N	
RS485-1	RS485	Communicate with inverter
RS485-2	/	Reserved

SK terminals definition

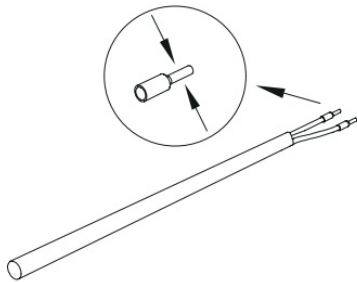
Communication connection (Basic version)



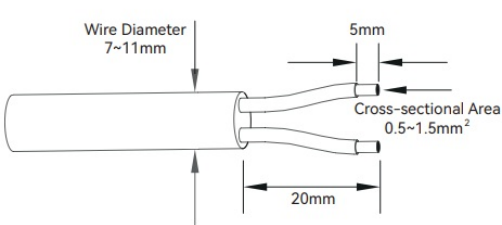
Pin	Definitio n	Function	
1	RS485- A1		
2	RS485- A2	Communicate with	
3	RS485- A1		
4	RS485- A2	SK or Datalog ger.	
5	/	Reserved	



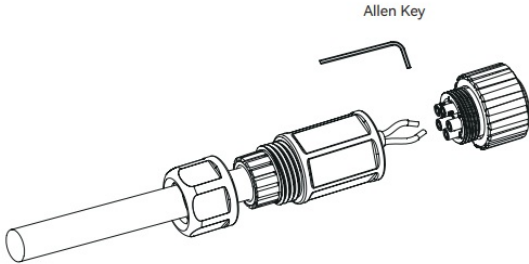
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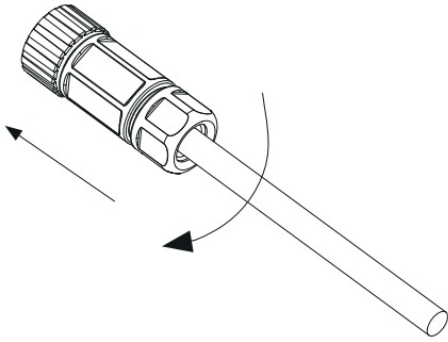
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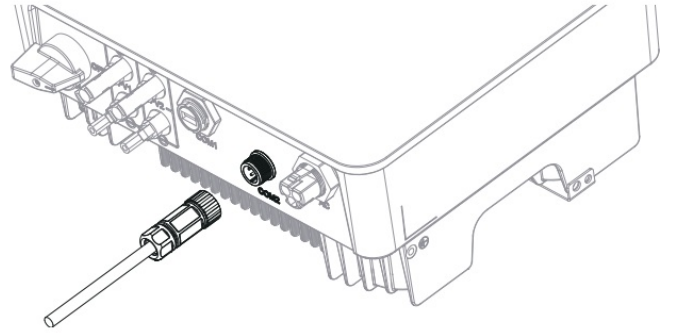
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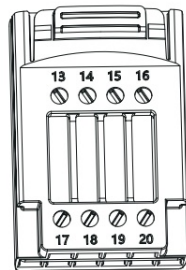
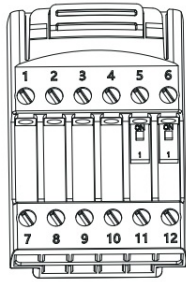


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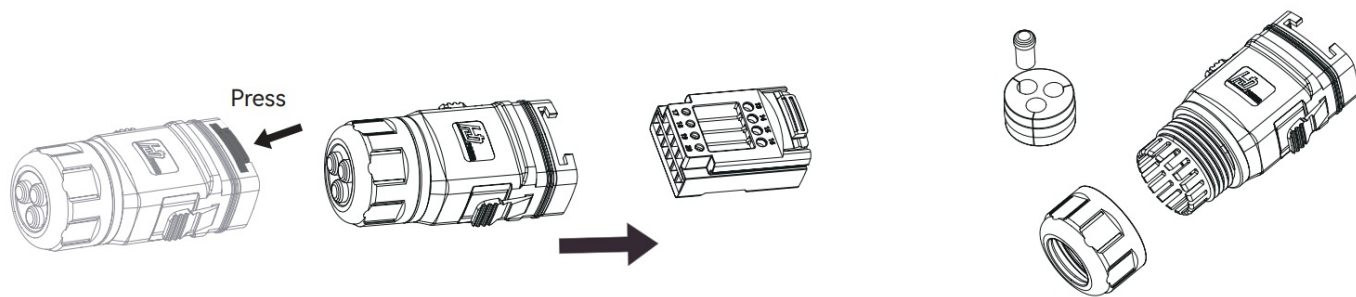


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Communication connection (Extended version)

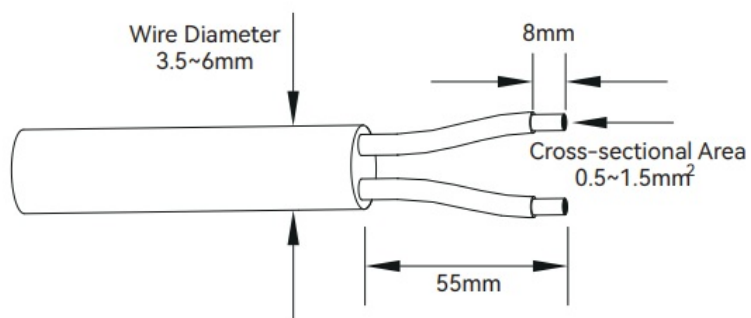


Pin		Function
1	RS 485 A2	
2	RS 485 B2	
3	Fast stop +	
4	Fast stop –	
5	Dipswitch-1	Reserved
6	Dipswitch-2	120Ω terminating resistor dipswitch between RS 485 A1 and RS 485 B1
7	CT-S1	
8	CT-S2	
9	RS 485 A1	
10	RS 485 B1	
11	RS 485 A1	① Communicate with SK for export limit & 24 hours load consumption.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

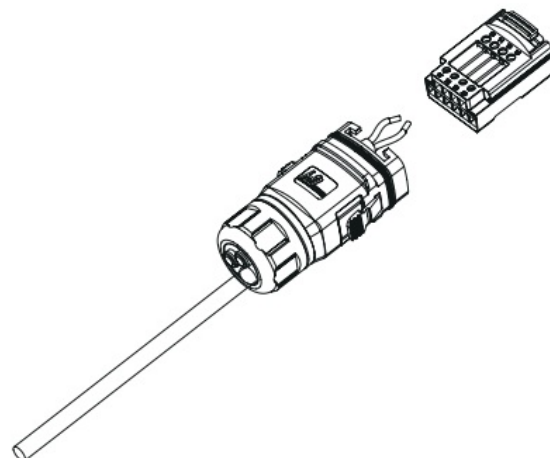


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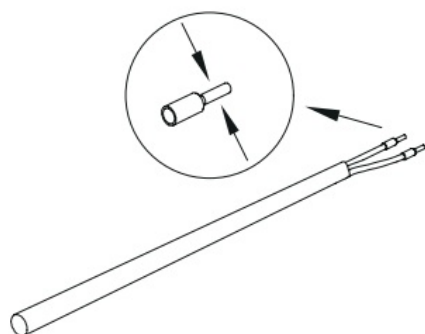
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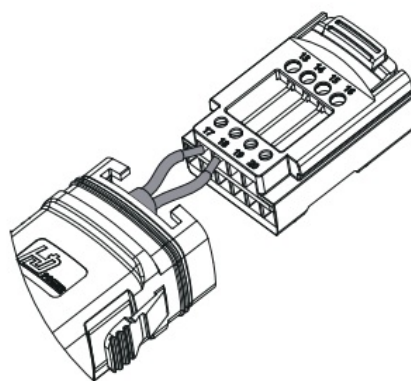
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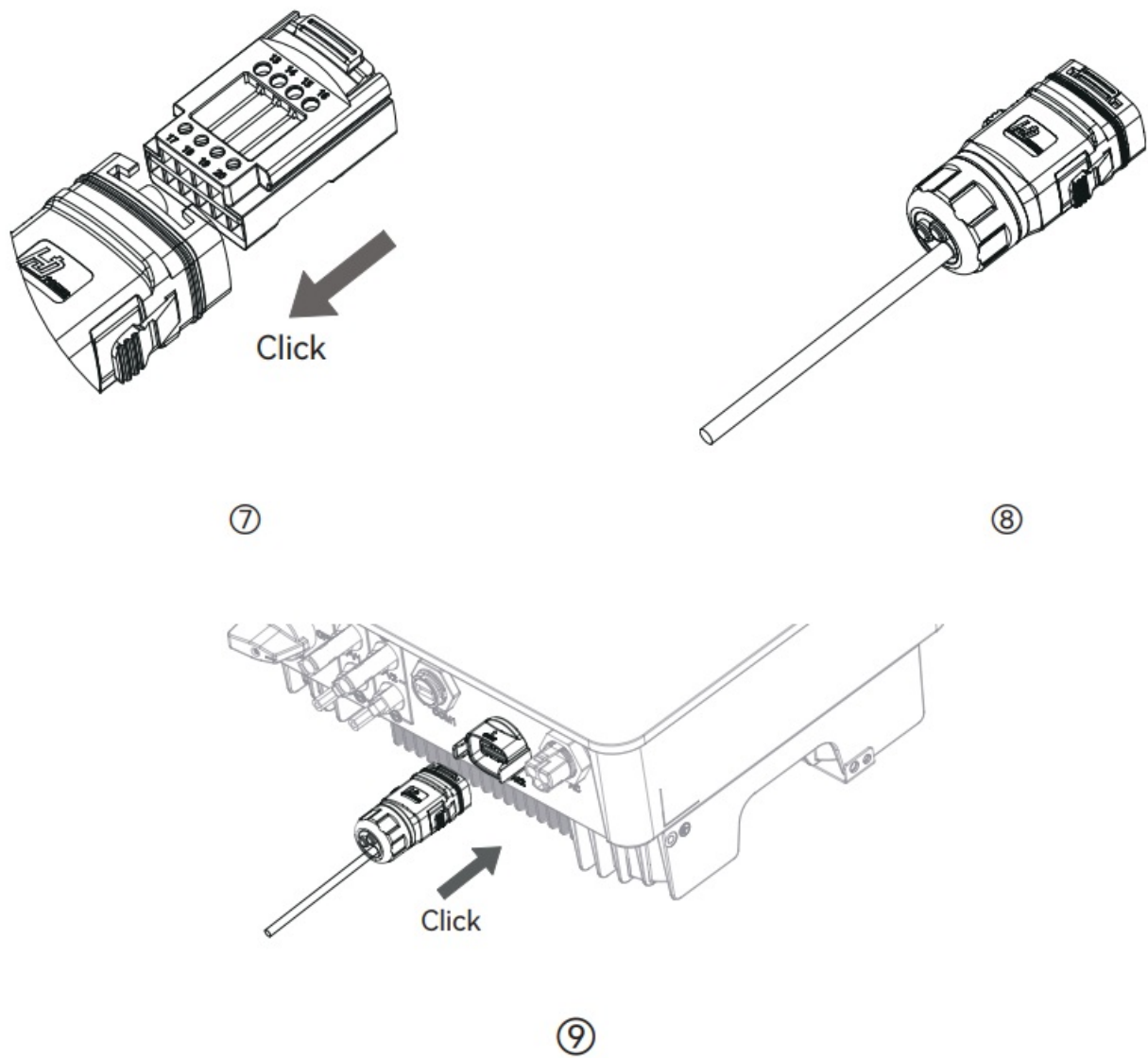
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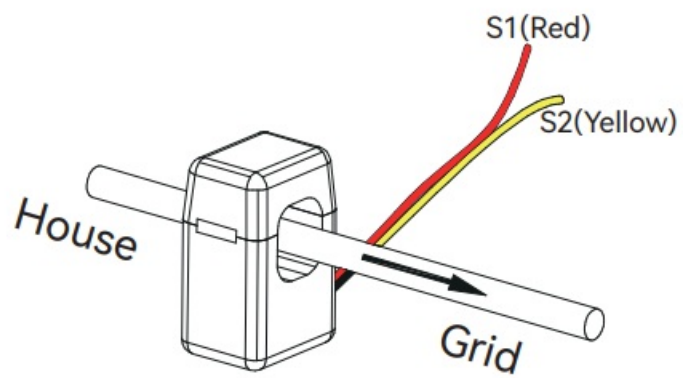
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CT installation (Optional)



WiFi Module Configuration Guide

1

Prepare a laptop or Smartphone and turn on the WLAN connection.



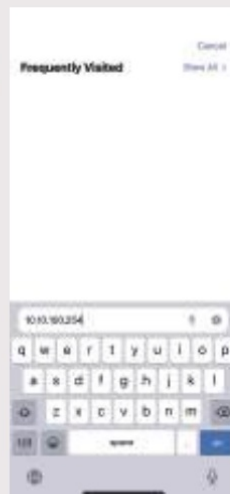
2

Searching for the corresponding WLAN in the WLAN connection list
“WIFI-AP*****”
(*represents the last 8 numbers of the inverter SN), and tap connect.



3

Open the browser and enter 10.10.100.254.



4

Tap“Scan”, A list of WiFi network names pop up.



5

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

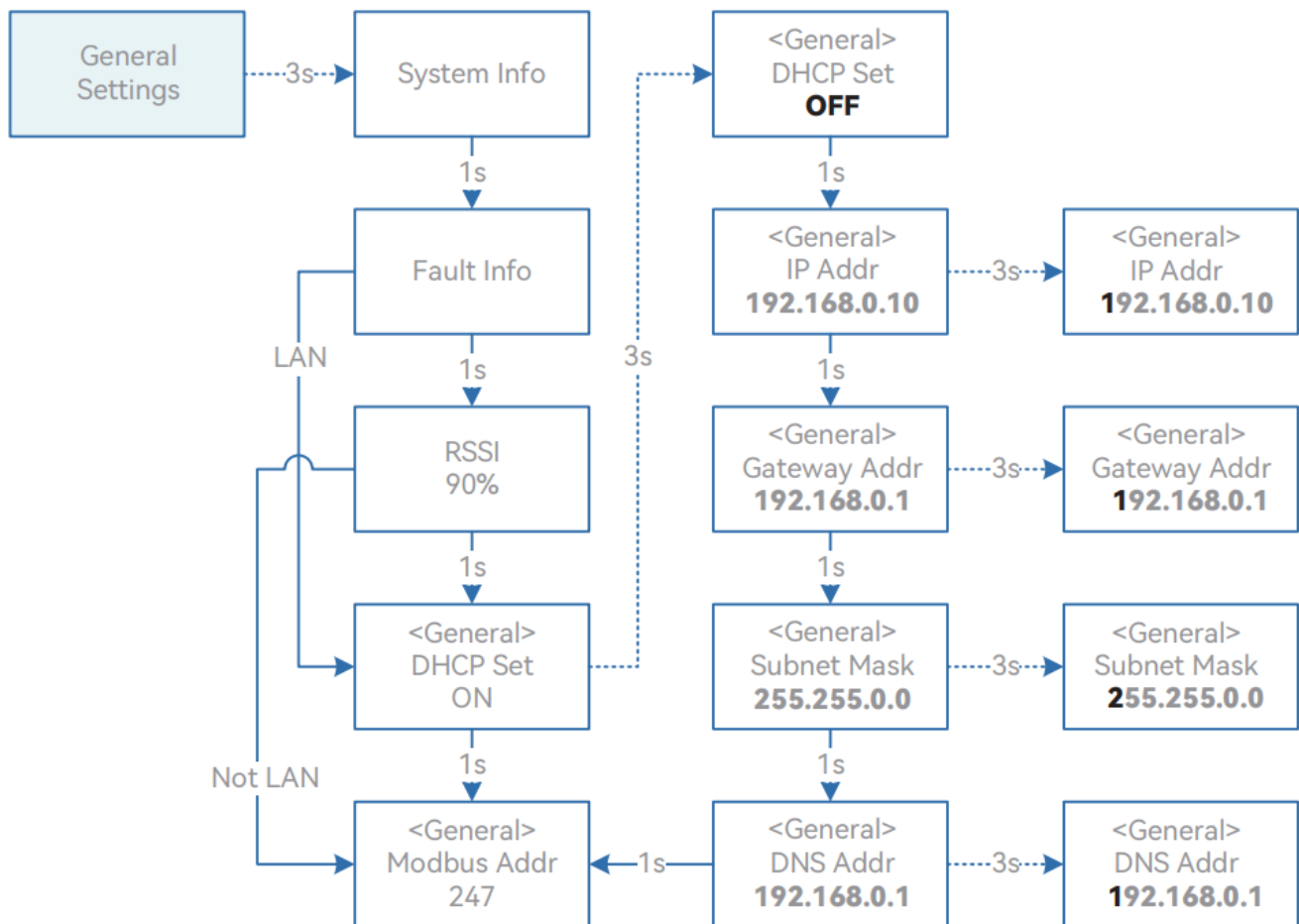
If connected successfully “Connection succeeded” will be displayed. After successful configure, the indicator status of WIFI module will be steady on.



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.
2. 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.
4. 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.



Indicator

Inverter

Item	Indicator	Status		Description
1	Power and Alarm Indicator			No power.
		Green		
		Red	Always on	An alarm or fault is detected, view the fault info on the display.
2	Grid Indicator		Grid lost.	
		Always on		
3	Communication Indicator	Green	Always on	— mally.
		Green	Flashing	or SK through RS485.
4	Display			
5	Button			

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 c onnected 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.

FAQ


- **Q: Do I need to connect the Monitoring Device if using a Datalogger and SK?**

A: If the inverter is connected to the Datalogger and SK, the Monitoring Device does not need to be connected. Refer to the Datalogger or SK manual for internet connection instructions.

- **Q: What wire specifications should be used for AC connection?**

A: Use wire with a diameter of 9~15mm and a cross-sectional area of 4~6mm² for AC connection.

Documents / Resources

	<p>InstaGen INS-SI-3.6 String Inverter [pdf] Installation Guide INS-SI-3.6, INS-SI-4.2, INS-SI-5, INS-SI-6, INS-SI-3.6 String Inverter, INS-SI-3.6, String Inverter, Inverter</p>
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References

- [User Manual](#)

Manuals+. Privacy Policy

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