GOODWE
YOUR SOLAR ENGINE

Quick Installation Guide

Solar Inverter

SDT G2 Series

(GW4K-DT/GW5K-DT/GW6K-DT/GW10KT-DT/
GW12KT-DT/GW15KT-DT)

V1.0-2021-10-12

01 Safety Precautions

General Disclaimer

- The information in this quick installation guide is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions here are for guidance only.
- Before installations, read through the quick installation guide and the user manual to learn about the product and the precautions.
- All installations should be performed by professional and knowledgeable technicians who are familiar with local standards and safety regulations.
- Check the deliverables for correct model, complete contents, and intact appearance. Contact the after-sales service center if any damage is found or any component is missing.
- Use insulating tools and wear personal protective equipment when operating the equipment to ensure personal safety. Wear anti-static gloves, clothes, and wrist strip when touching electron devices to protect the inverter from damage.
- Strictly follow the installation, operation, and configuration instructions in this guide and user manual. The manufacturer shall not be liable for equipment damage or personal injury if you do not follow the instructions. For more warranty details, please visit http://www.goodwe.com.

Safety Disclaimer

Warning

DC Side

1. Ensure the component frames and the bracket system are securely grounded.
2. Connect the DC cables using the delivered DC connectors and terminals. The manufacturer shall not be liable for the equipment damage if other connectors or terminals are used.
3. Ensure the DC cables are connected tightly and securely.
4. Measure the DC cable using the multimeter to avoid reverse polarity connection. Also, the voltage should be under the permissible range.

AC Side

1. The voltage and frequency at the connecting point should meet the on-grid requirements.
2. An additional protective device like the circuit breaker or fuse is recommended on the AC side. Specification of the protective device should be at least 1.25 times the AC output rated current.
3. PE cable of the inverter must be connected firmly. The resistance between the neutral wire and the earth cable is less than 10Ω.
4. You are recommended to use copper cables as AC output cables. Contact the manufacturer if you want to use aluminum cables.

Inverter Side

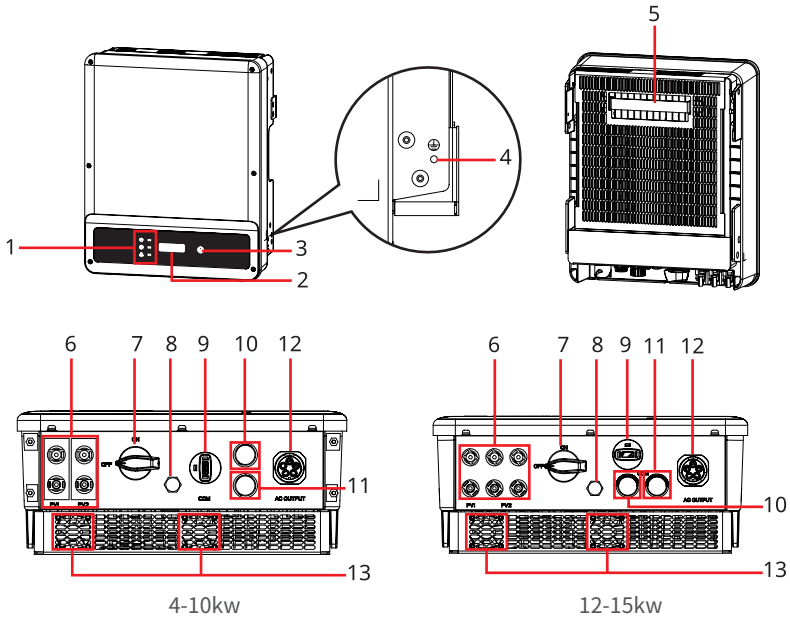
1. Terminals at the bottom of the inverter cannot bear much load. Otherwise, the terminals will be damaged.
2. All labels and warning marks should be clear after the installation. Do not scrawl, damage, or cover any label on the device.
3. Warning labels on the inverter are as follows.

	High Voltage Hazard. Power off the inverter first before any operations.		Potential risks exist. Wear proper PPE before any operations.
	Read through the guide before any operations.		Delayed discharge. Wait until the components are totally discharged after power off.
	High-temperature hazard. Do not touch the equipment to avoid being burnt.	N/A	N/A

Check Before Power ON

No.	Check Item
1	The inverter is firmly installed at a clean place where is well-ventilated and easy-to-operate.
2	The PE cable, DC input cable, AC output cable, and communication cable are connected correctly and securely.
3	Cable ties are routed properly and evenly, and no burrs.
4	Unused ports and terminals are sealed.
5	The voltage and frequency at the connection point meet the on-grid requirements.

Parts

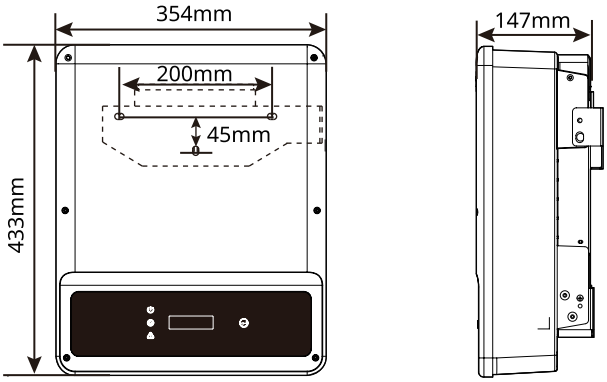


1.	Indicator	2.	LCD[1]	3.	Button
4.	PE	5.	Mounting Plate	6.	PV Input Terminal
7.	DC Switch	8.	Ventilation valve	9.	Communication Module
10.	Smart Meter/RS485	11.	DRED/Remote Shutdown	12.	AC Output Port
13.	Fan[2]				

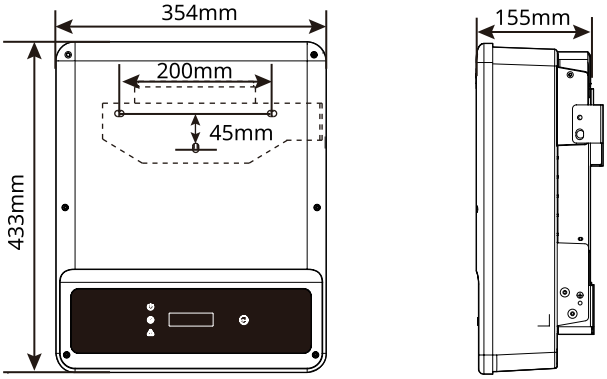
Notice:
[1]: The LCD is equipped in some models only.
[2]: The Fans is equipped in some models only.

Dimension

4-10kw

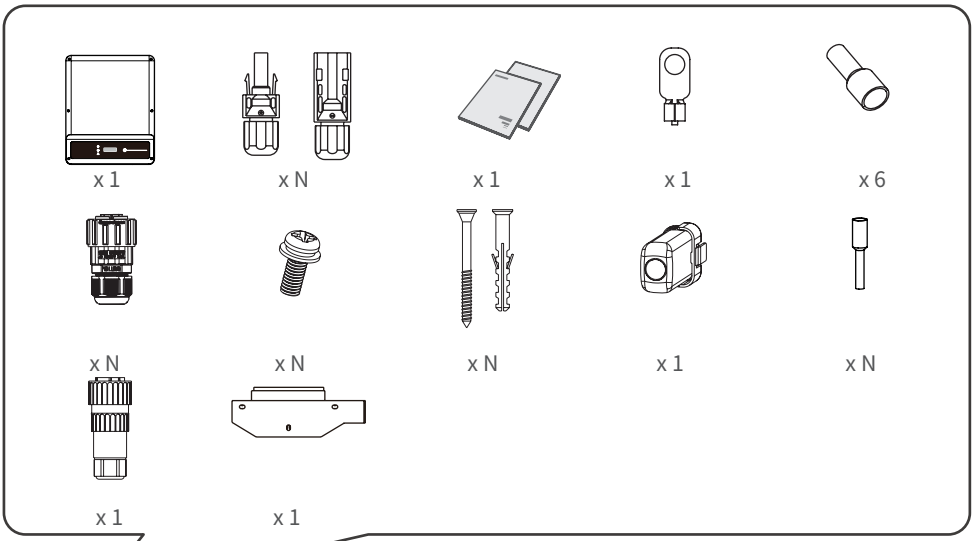


12-15kw



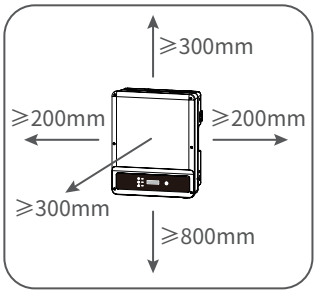
03 Inverter Installation

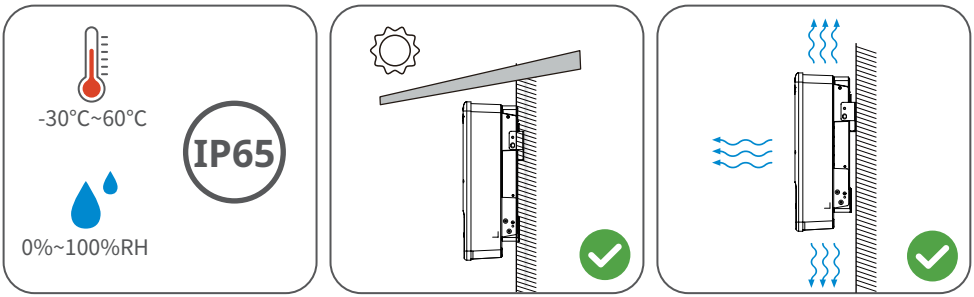
Packing List



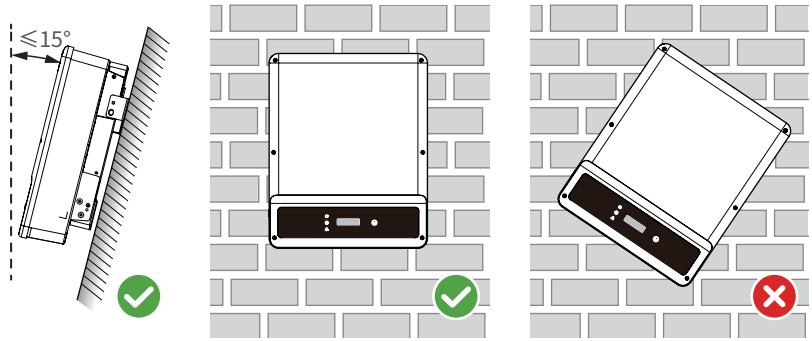
N means the number of actual accessories may differ depending on different model.

Space Requirements



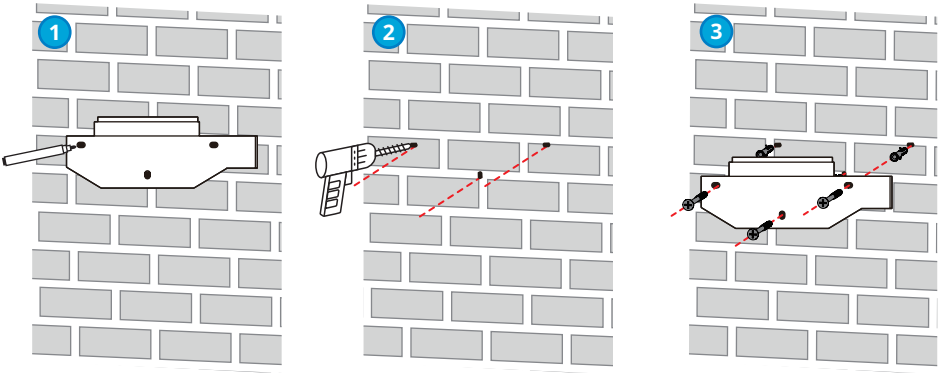


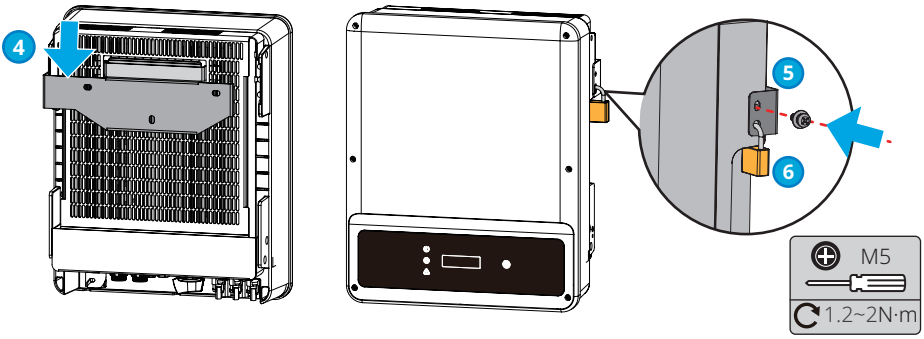
Angle Requirements



Installing the Inverter

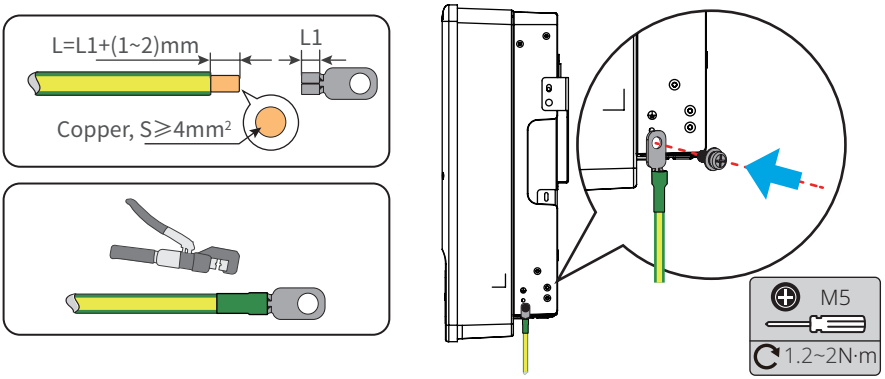
Avoid the water pipes and cables buried in the wall when drilling holes.



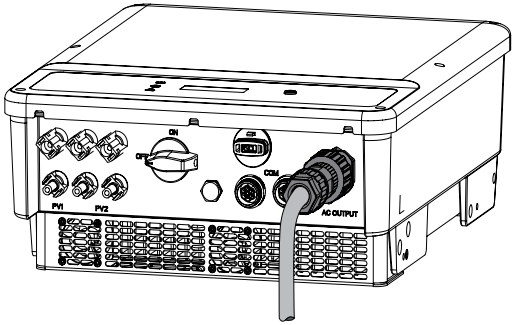


04 Electrical Connection

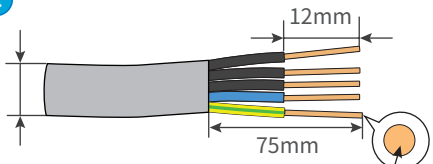
Connecting the PE Cable



Connecting the AC Cable



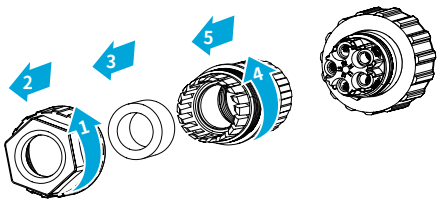
1



4-10kW: 13mm≤Φ≤18mm
12-15kW: 18mm≤Φ≤25mm

4-10kW: 4mm²≤S≤10mm²
12-15kW: 6mm²≤S≤16mm²

2



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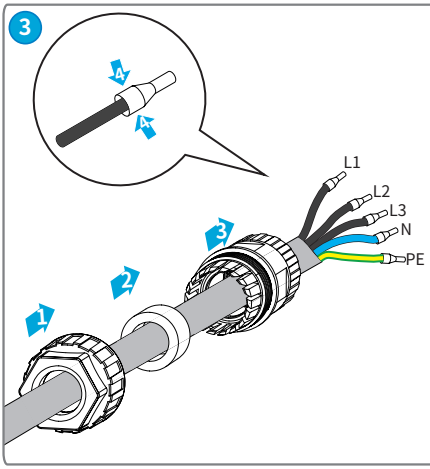

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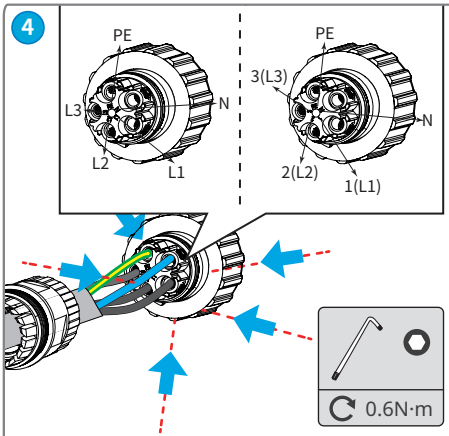

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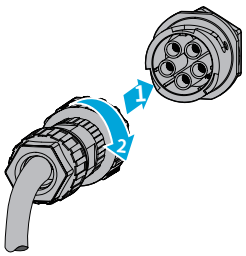
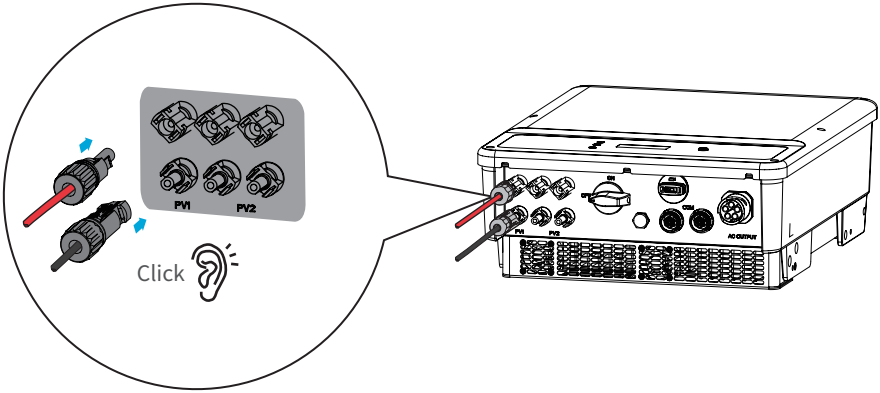
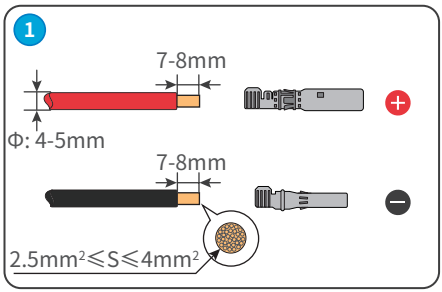
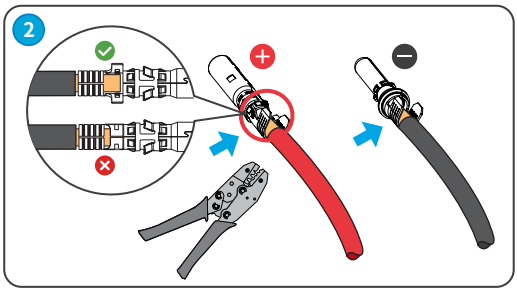
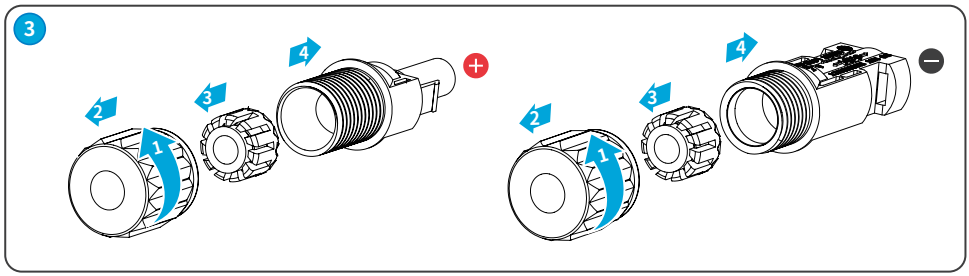


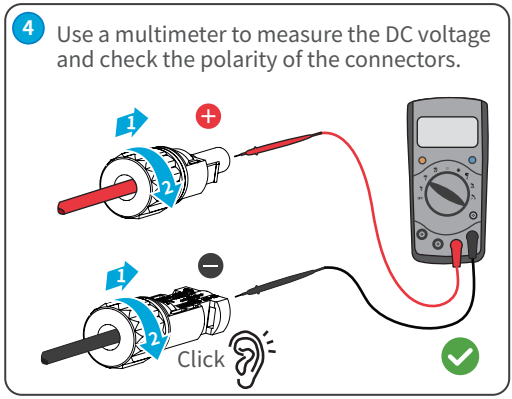
Connecting the DC Cable

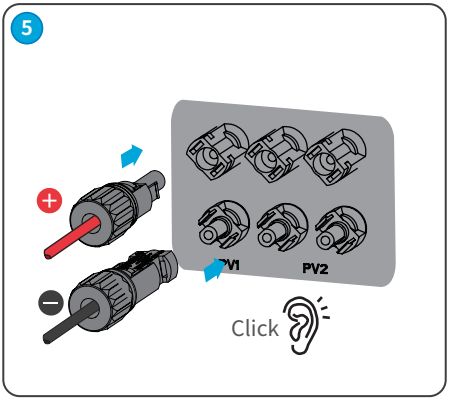






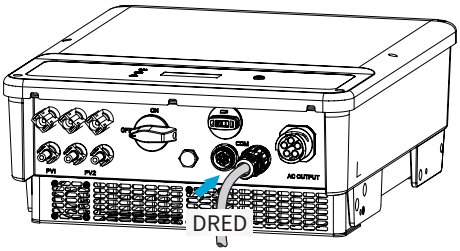


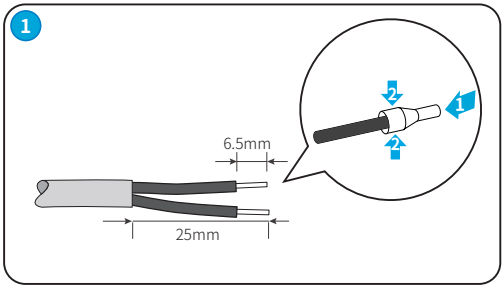


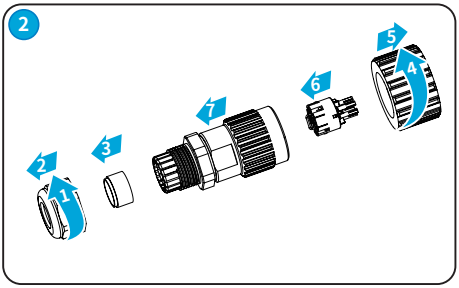


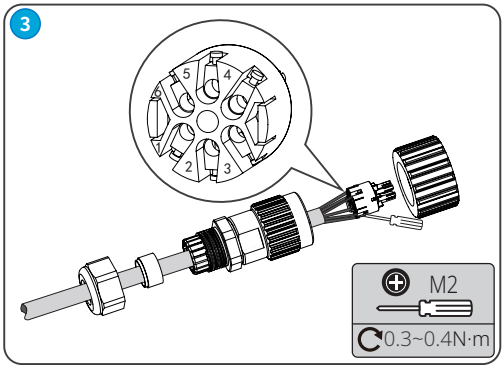
Connecting the DRED Cable (6PIN)

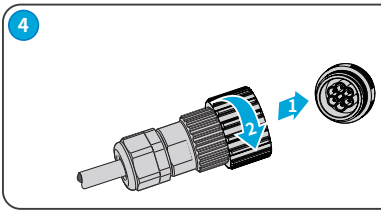
Contat the after-sales service to get the DRED terminal if you need to use DRED function.
DRED function is off by default. Start this function via SolarGo App if it's needed.





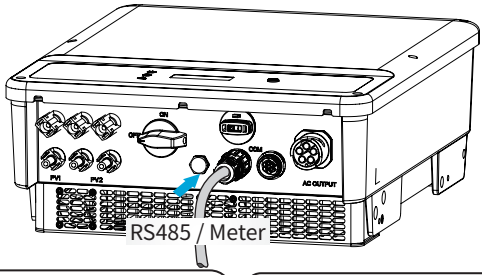


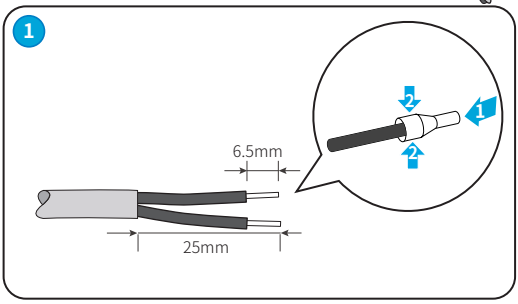


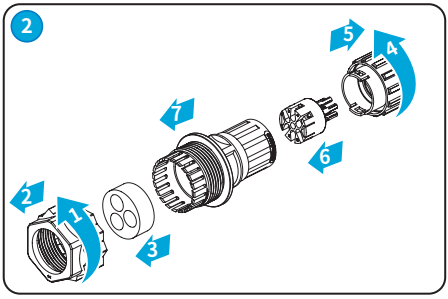


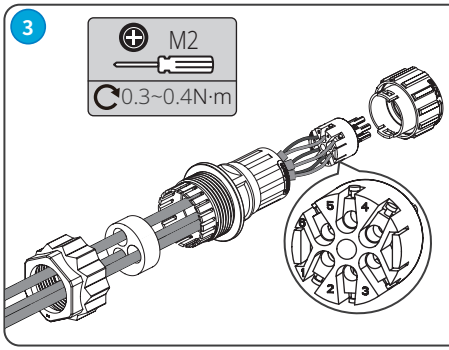
No.	DRED
1	DRM1/5
2	DRM2/6
3	DRM3/7
4	DRM4/8
5	REFGen
6	COM/DRM0

Connecting Smart Meter and RS485 Cable (6PIN)

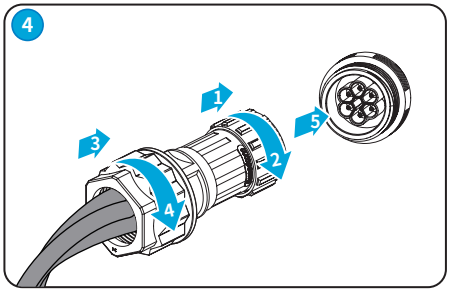




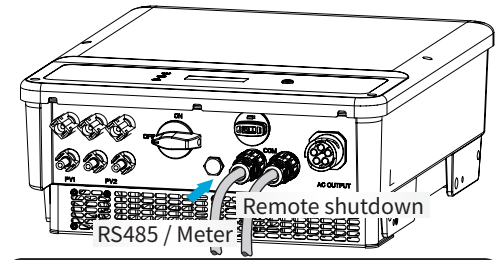


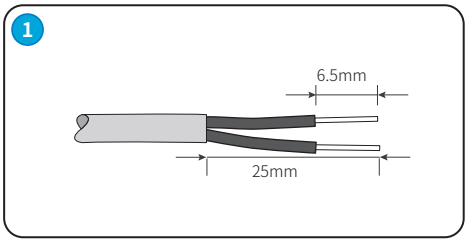


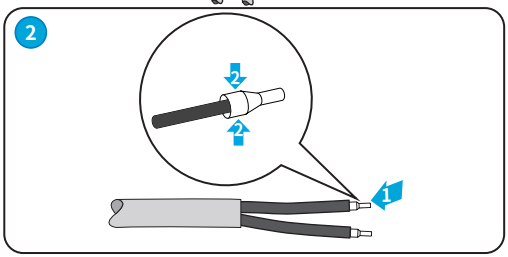
No.	RS485 / Meter
1	RS485 B
2	RS485 B
3	RS485 A
4	RS485 A
5	Meter +
6	Meter −

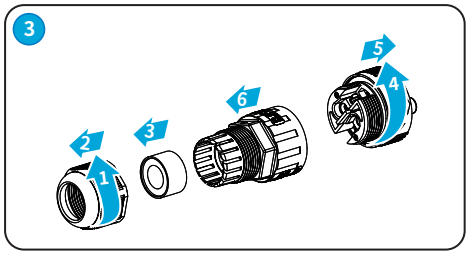


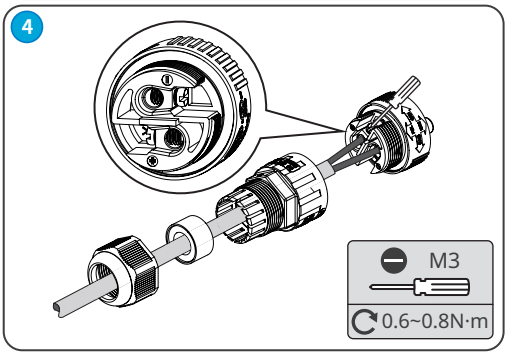
Connecting Remote Shutdown/RS485 Cable (2 PIN)

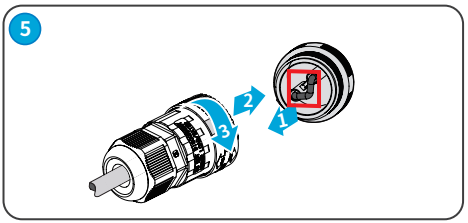












No.	Meter/RS485
+	METER+/RS485 A
-	METER-/RS485 B

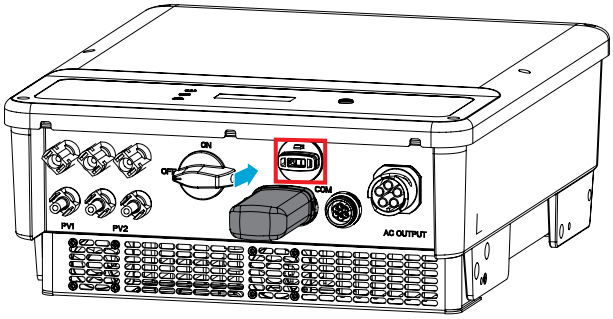
No.	Remote shutdown
+	DRM4/8
-	REFGen

Installing the Communication Module

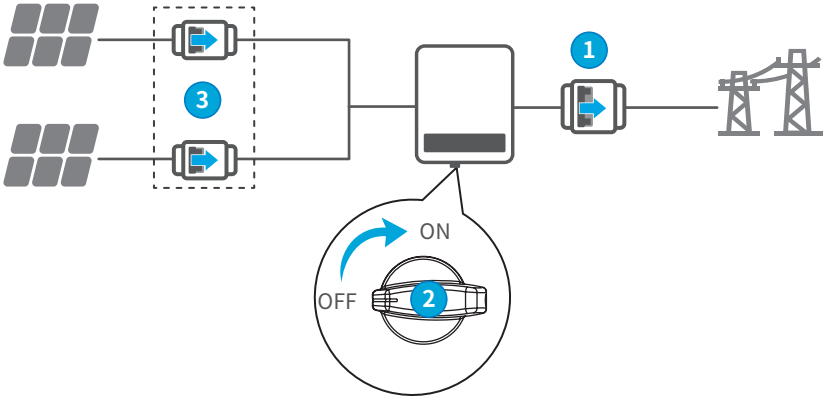
NOTICE

Remove the communication module using the unlock tool. The manufacturer shall not be liable for the port damage if the module is removed without the unlock tool.

The appearance of communication modules is slightly different. But the modules are installed in the same way. The following figure shows you how to install a WiFi module.



05 Power On



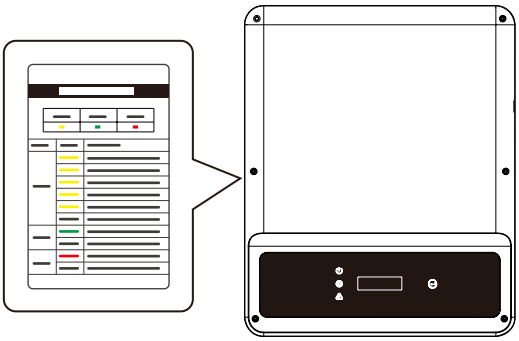
Power ON

Turn on 1 → 2 → 3

Power ON

Turn off 1 → 3 → 2

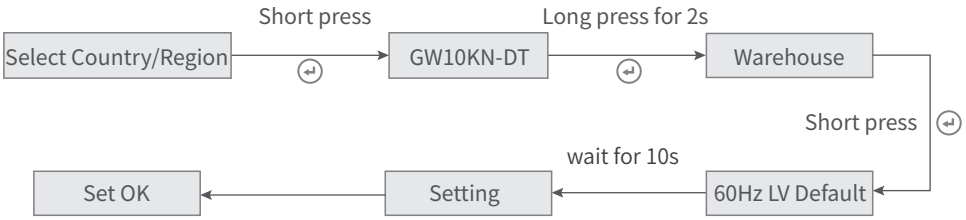
Check the LED indicators



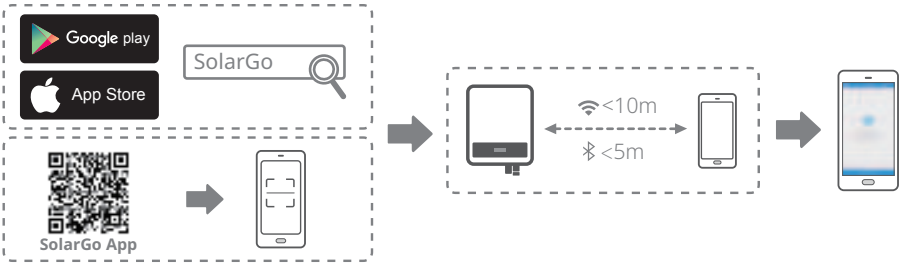
06 Commissioning

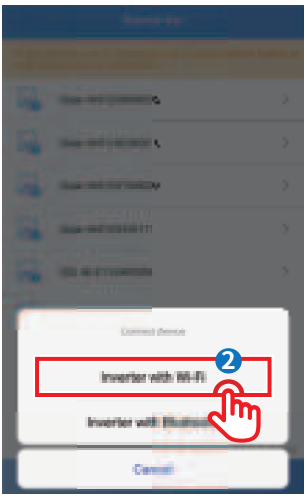
Commissioning via LCD

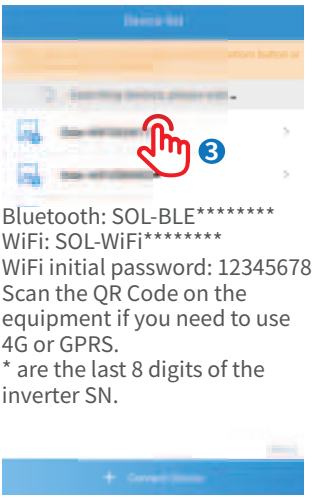
Select safety country or region accordingly via LCD when the inverter is equipped with an LCD.



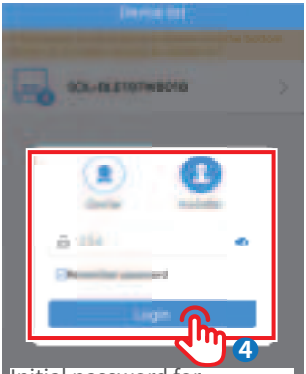
Commissioning via SolarGo APP



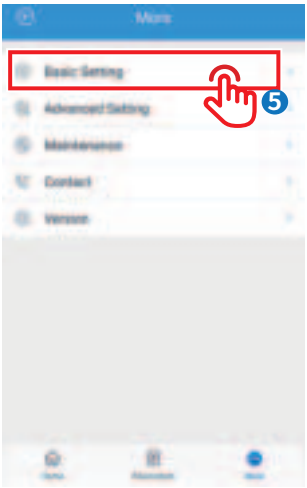


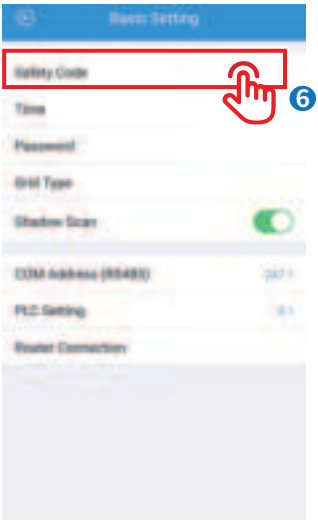


Bluetooth: SOL-BLE********
WiFi: SOL-WiFi********
WiFi initial password: 12345678
Scan the QR Code on the equipment if you need to use 4G or GPRS.
* are the last 8 digits of the inverter SN.

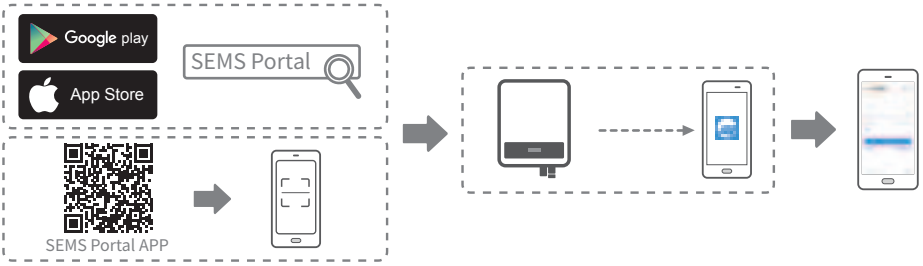


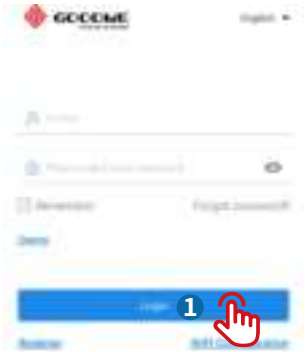
Initial password for Bluetooth/WiFi: **1234**.
Initial Password for 4G: automatically fill in.
Initial Password for GPRS: the last 4 digits of the inverter bar code.



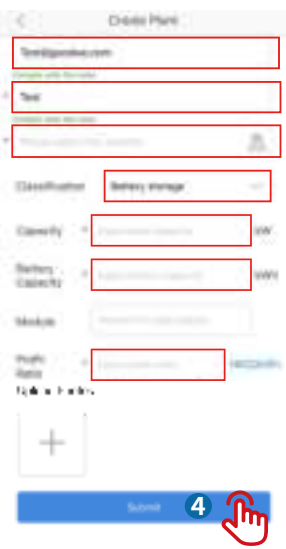


Monitoring via SEMS Portal App





Contact after sales service or the dealer to get the account and the password.



For more detailed instructions, scan the QR code below to see the user manual.

SDT G2 Series User Manual

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