

# GOODWE



## Quick Installation Guide

### AC Charger

HCA Series

(GW7K-HCA | GW11K-HCA | GW22K-HCA)

V1.0-2022-10-18





## General Disclaimer






- The information in this user manual 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 in the manual are for guidance only.
- Before installations, read through the quick installation guide. For additional information, please see the user manual.
- All operations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Check the deliverables for correct model, complete contents, and intact appearance. Contact after sales service if any damage is found or any component is missing.
- Use insulating tools and wear personal protective equipment (PPE) when operating the equipment to ensure personal safety. Wear anti-static gloves, cloths, and wrist strips when touching electron devices to protect the equipment from damage.
- Strictly follow the installation, operation, and configuration instructions in this guide and relative 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: <https://en.goodwe.com/warranty>.

## Safety Disclaimer

### Instructions during Installation

1. Do not dismantle the charger modules personally. Do not extend the charging cable. Otherwise, it may cause Ingress Protection Rating derating or electric danger.
2. The equipment supports charging Electric Vehicle (EV hereinafter) only. Do not charge other devices.
3. Wrap the charging cable around the charger after using. Water or other debris shall not enter into the charging connector.
4. The charger and cables shall not be over bended, squeezed or entangled. Otherwise, it may cause damage to the equipment.
5. Disconnect the charger and its upstream switches before installation, maintenance and other operations.
6. It is strictly forbidden to touch the charging connector when the charger is live.
7. Check whether the cover and appearance of the charger are normal regularly.
8. Use clean and dry cloth to wipe the charger and its modules.
9. All labels and warning marks should be visible after the installation. Do not cover, scrawl, or damage any label on the equipment.
10. Warning labels on the Charger are as follows:

	HIGH VOLTAGE HAZARD High voltage exists during the charger's running. Disconnect all incoming power and turn off the product before working on it.		Delay discharge. Wait 5 minutes after power off until the components are completely discharged.
	Read through the user manual before any operations.		Potential risks exist. Wear proper PPE before any operations.

	High-temperature hazard. Do not touch the product under operation to avoid being burnt.		Grounding point.
	CE Certification Marking		Do not dispose of the inverter as household waste. Discard the product in compliance with local laws and regulations, or send it back to the manufacturer.
	British UKCA Certification Marking	NA	NA

## Check Before Power ON

No.	Checking Item
1	The charger is firmly installed at a clean place that is well-ventilated and easy to operate.
2	The AC input and communication cables are connected correctly and securely.
3	Cable ties are intact, routed properly and evenly.
4	Unused ports and terminals are sealed.
5	The voltage, frequency and other factors of the grid are in consistent with the working requirement of the charger.

## Declaration of Conformity

### EU

The product with wireless communication function sold in the European market meets the requirements of the following directives:


- Radio Equipment Directive 2014/53/EU (RED)
- Restrictions of Hazardous Substances Directive 2011/65/EU and (EU) 2015/863 (RoHS)

### UK

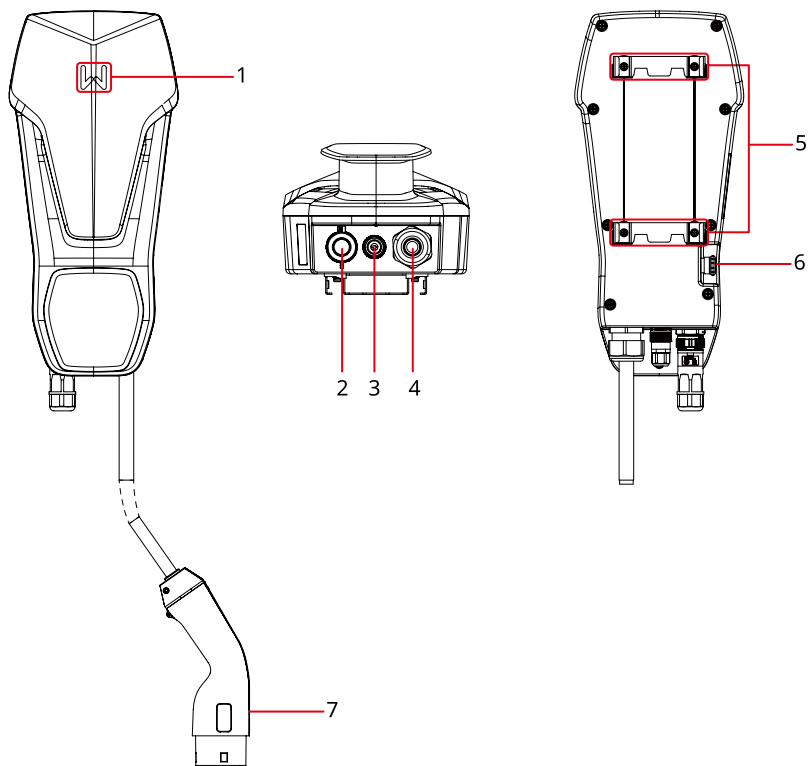
The product with wireless communication function sold in the British market meets the requirements of the following directives:

- Radio Equipment Regulations 2017
- The Restrictions of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012/3032)

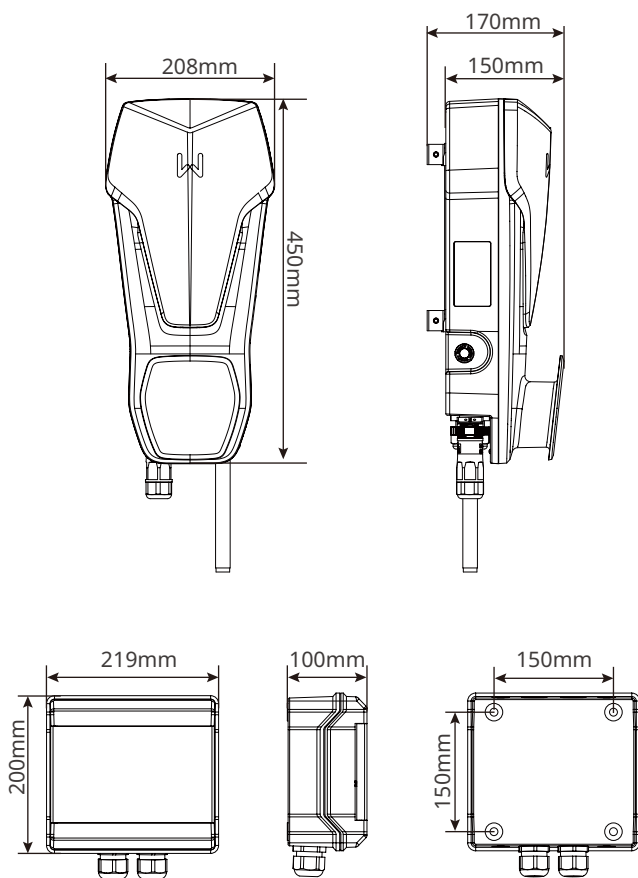
## LED Indicators

Indicator	Color	Explanation
	Green ON	The charger is standby.
	Flash in Green	The system of the charger is upgrading.
	Blue ON	The charger is in charging.
	Red ON	A fault has occurred.

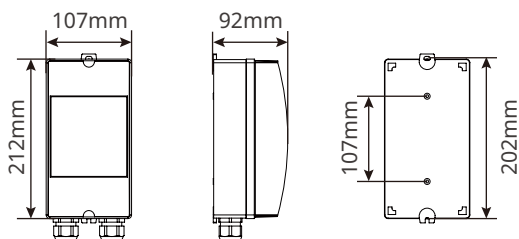
## 02 Product Introduction



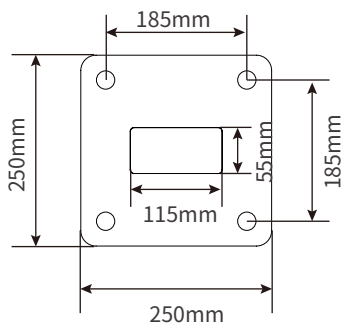
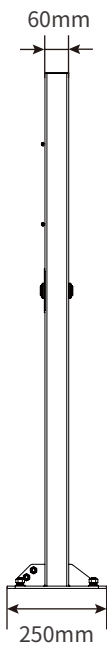
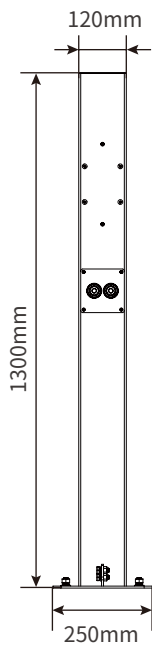
- |                       |                            |                             |
|-----------------------|----------------------------|-----------------------------|
| 1. Indicator          | 2. Input Port for AC cable | 3. RS485 Communication Port |
| 4. Charging Cable     | 5. Mounting Plate          | 6. Emergency Stop Button    |
| 7. Charging Connector |                            |                             |



**RCD for GW11K-HCA & GW22K-HCA**



**RCD for GW7K-HCA**

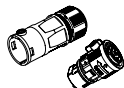


## 03 Installation

### Deliverables



x 1



x 1



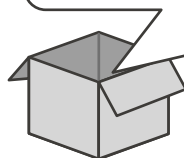
x 4



x N

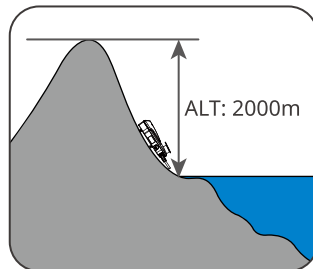
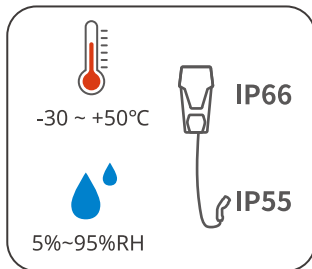
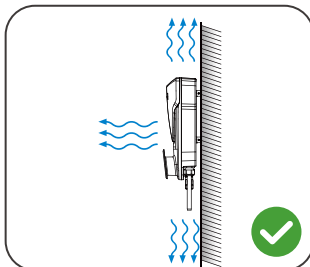
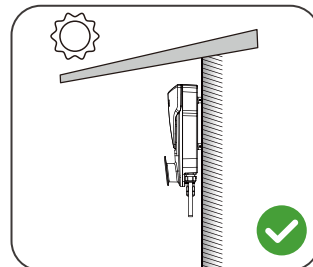
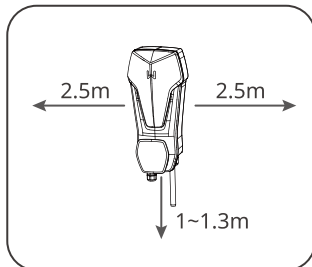
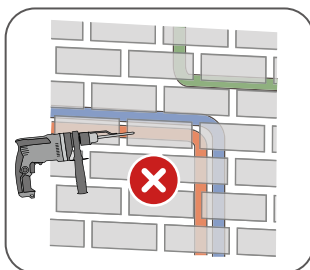
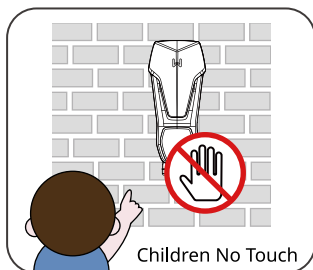
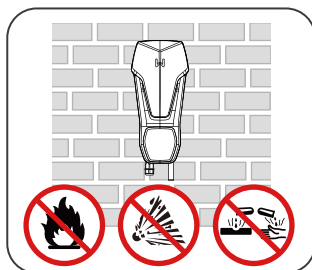


x 1

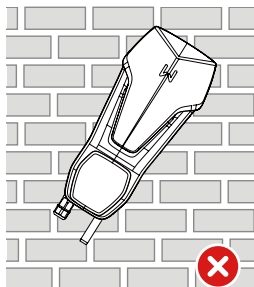
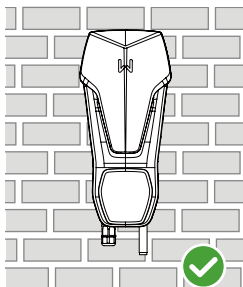
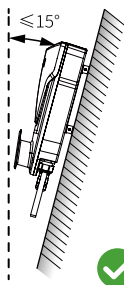


N=Quantity depends on the specific system configuration.

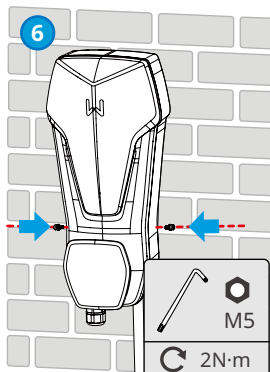
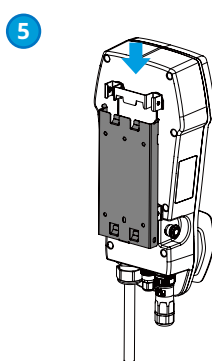
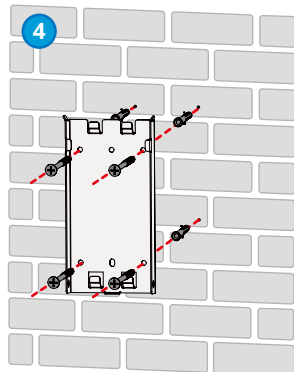
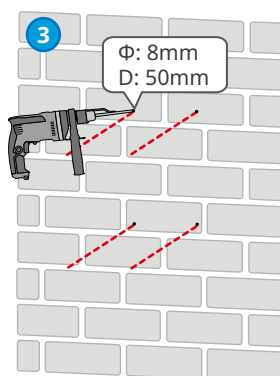
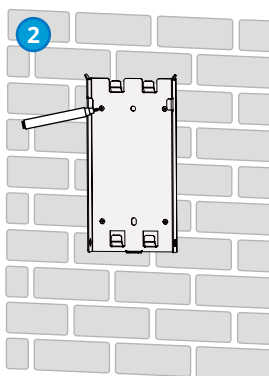
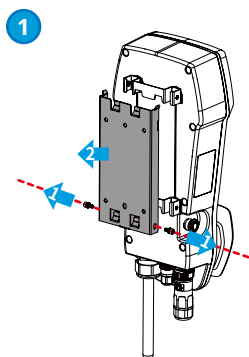
### Space Requirements



## Angle Requirements



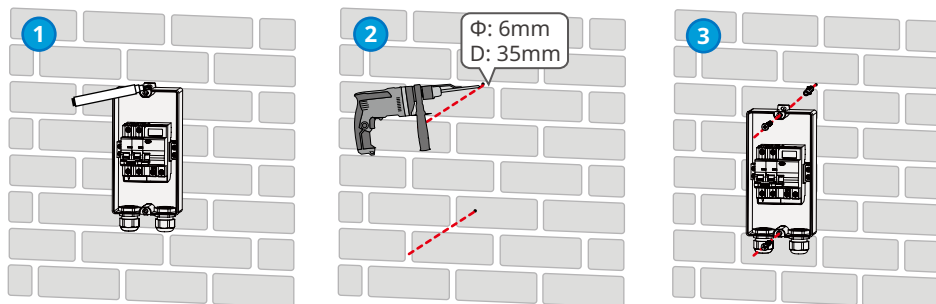
## Wall Mounting - Charger



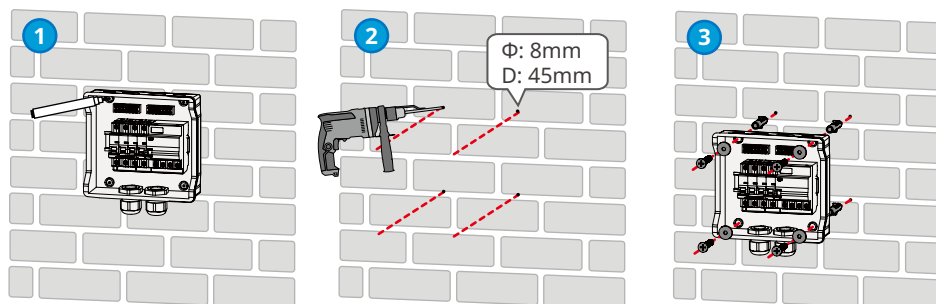


## Wall Mounting-Distribution Board

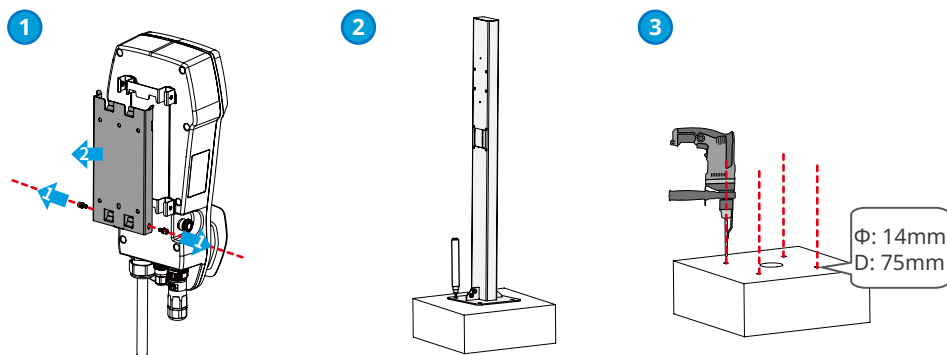
### Distribution Board (Type I)



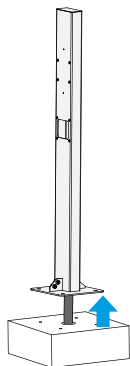
### Distribution Board (Type II)



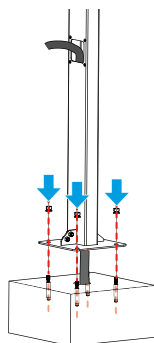
### Post Mounting-AC Charger



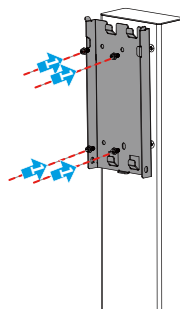
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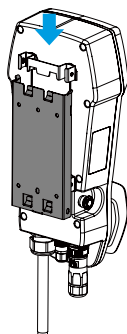
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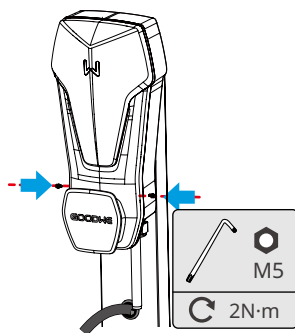
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7



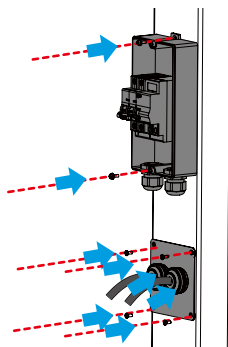
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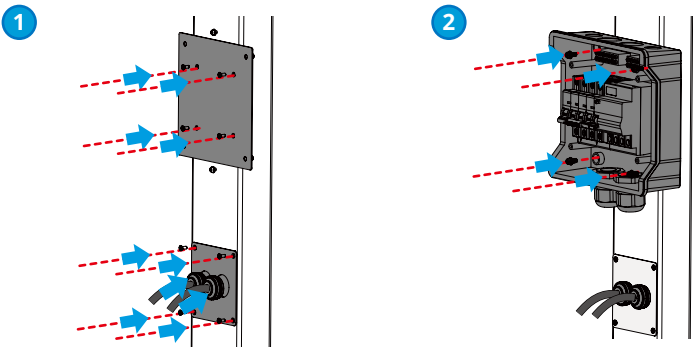
## Post Mounting-Distribution Board

### Distribution Board (Type I)

1



**Distribution Board (Type II)**



**04 Electrical Connection**

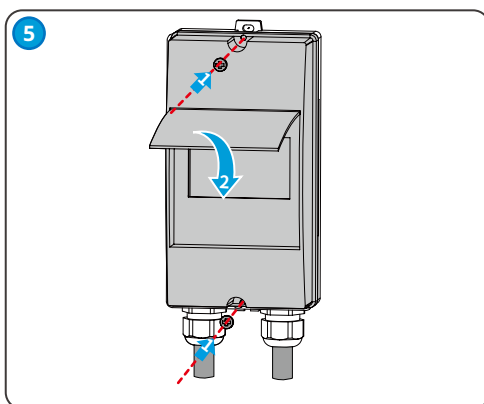
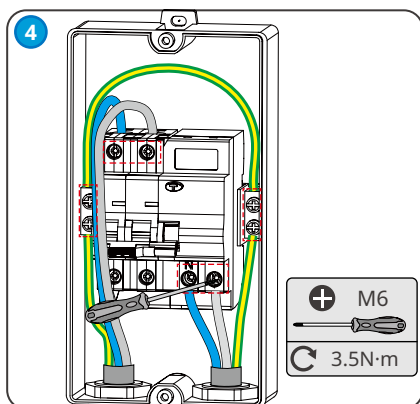
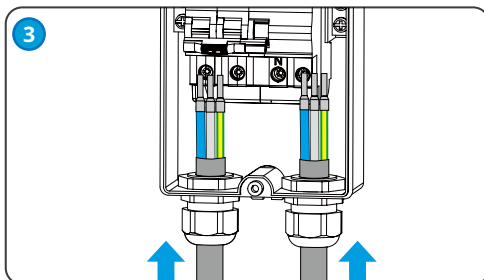
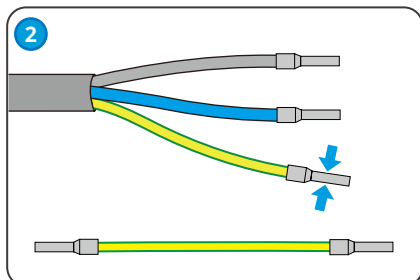
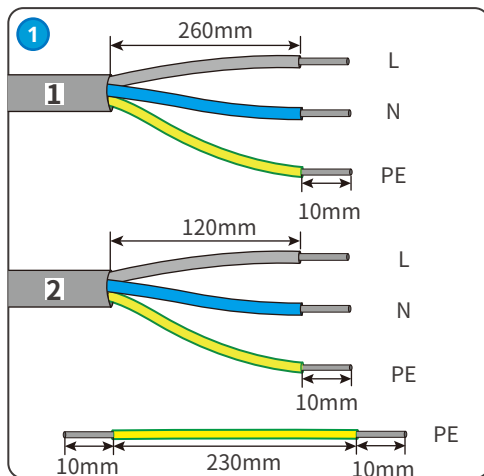
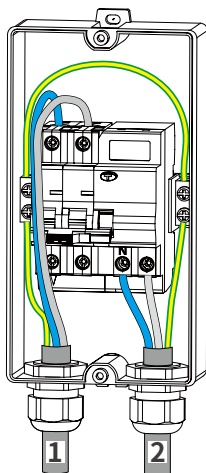
**Cable Requirements**

Cable	Type	Cable Specification
AC Cable	Three core outdoor AC cable	GW7K-HCA <ul style="list-style-type: none"><li>• Copper, -30°C ~ +50°C, 450/750V</li><li>• Outer diameter: 11~17mm</li><li>• Conductor cross-sectional area: 6mm<sup>2</sup></li></ul>
	Five core outdoor AC cable	GW11K-HCA <ul style="list-style-type: none"><li>• Copper, -30°C ~ +50°C, 450/750V</li><li>• Outer diameter: 11~17mm</li><li>• Conductor cross-sectional area: 2.5mm<sup>2</sup></li></ul>
		GW22K-HCA <ul style="list-style-type: none"><li>• Copper, -30°C ~ +50°C, 450/750V</li><li>• Outer diameter: 11~17mm</li><li>• Conductor cross-sectional area: 6mm<sup>2</sup></li></ul>

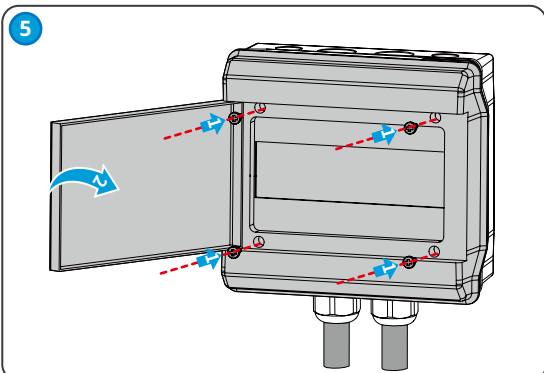
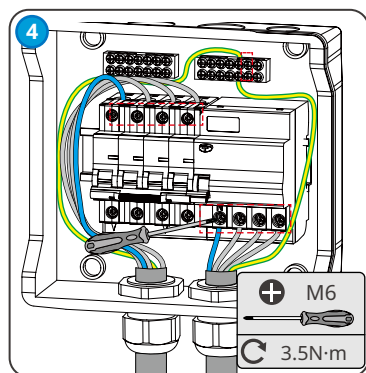
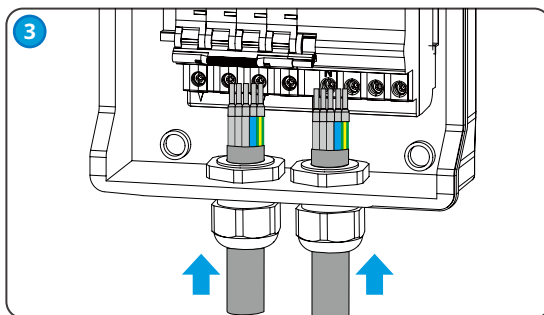
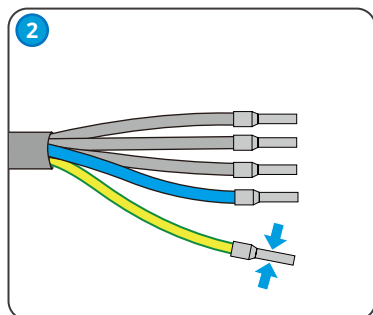
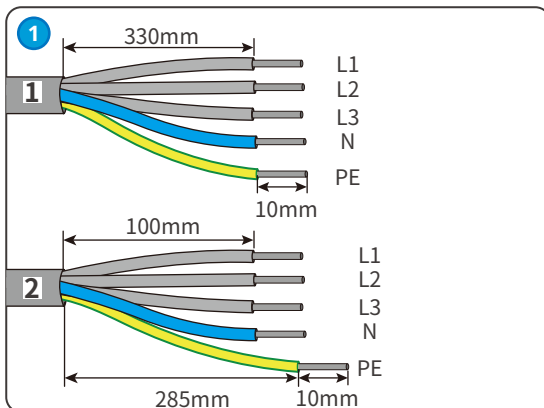
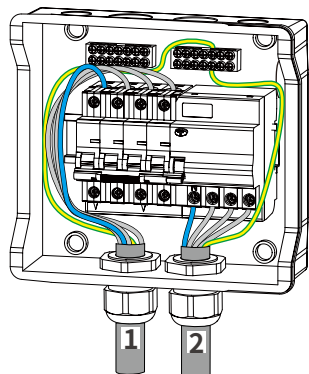
**RCD Requirement**

Charger Model	RCD Type	RCD Instantaneous Tripping Characteristic	RCD Tripping Current	RCD Nominal Current	RCD Nominal Voltage
GW7K-HCA	TYPE A	C	30mA	40A	AC 230V (2P)
GW11K-HCA				25A	AC 400V (4P)
GW22K-HCA				40A	AC 400V (4P)

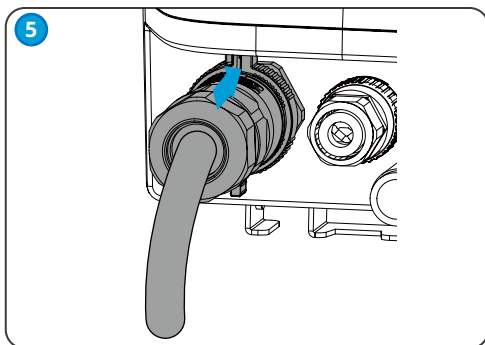
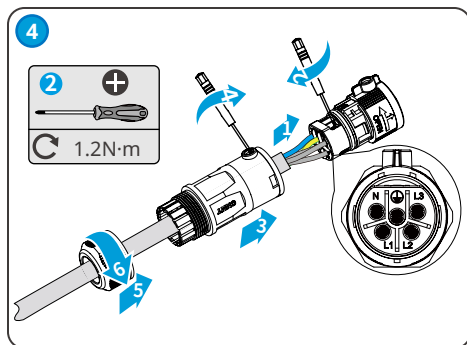
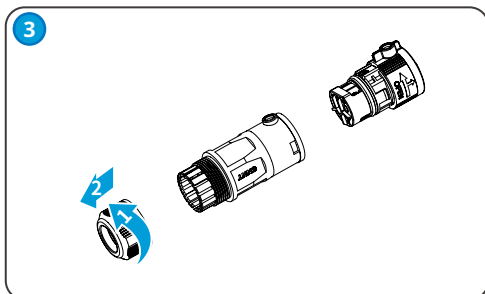
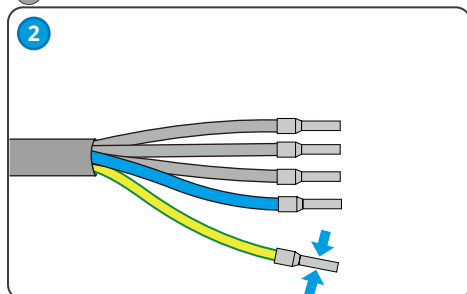
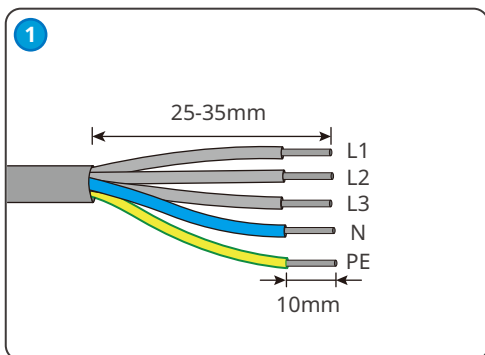
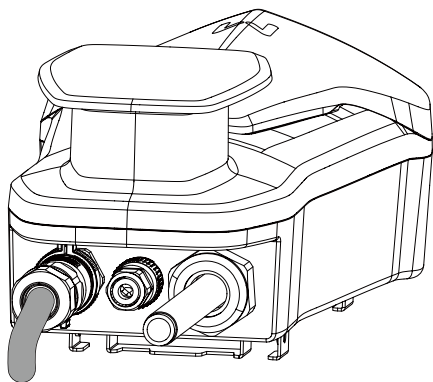
## RCD-1 Connector



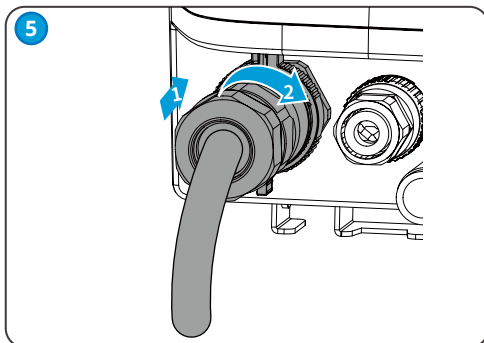
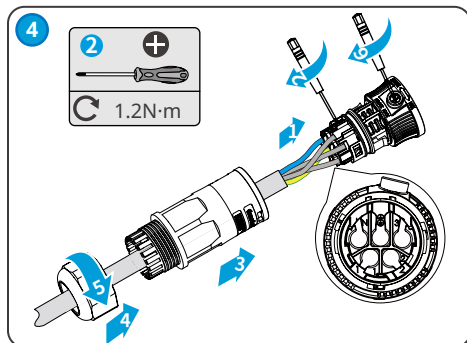
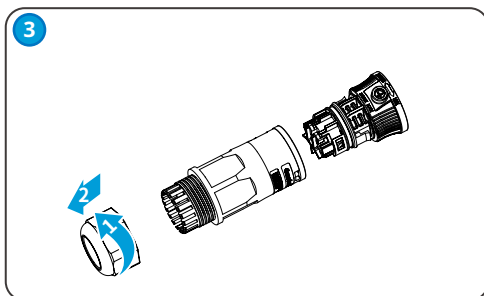
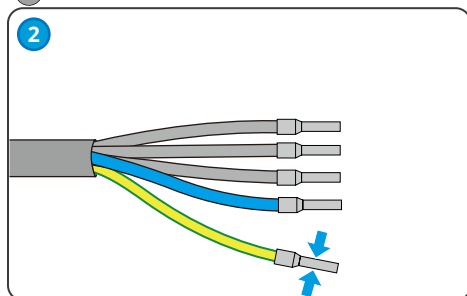
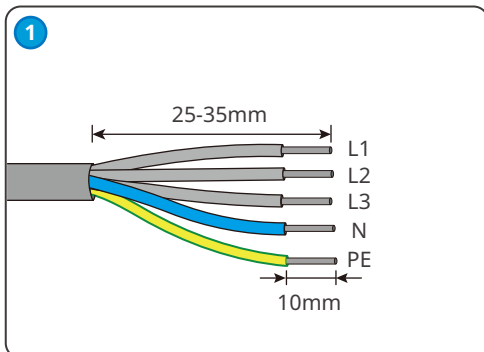
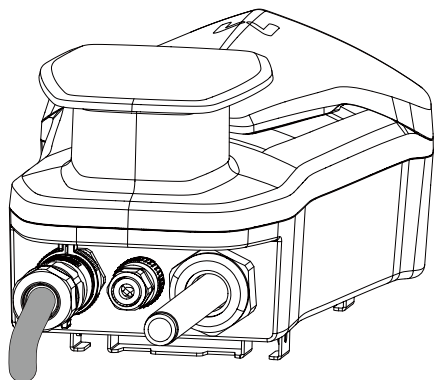
## RCD-2 Connector



## AC-1 Connector

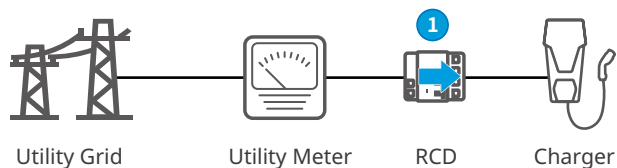


## AC-2 Connector

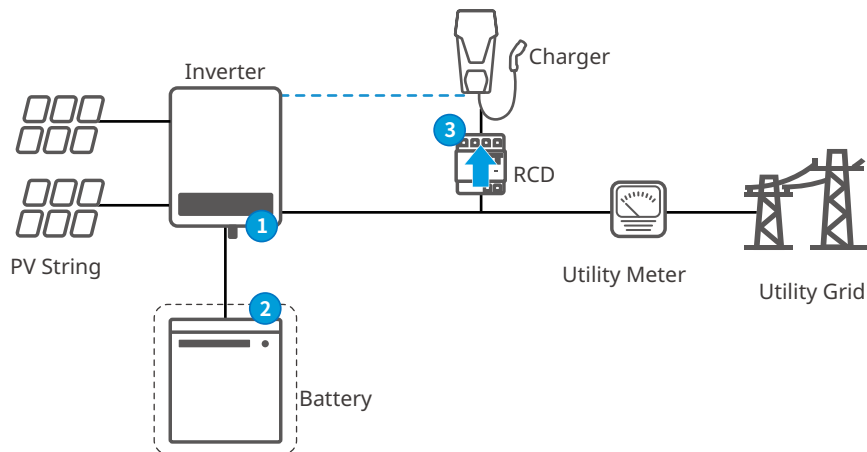


## 05 Power ON and OFF

### Connected to the grid



### Connected to PV String and Batteries



#### Power ON

Connected to the grid:

1

Connected to PV String and Batteries:

1 → 2 → 3

#### Power OFF

Connected to the grid:

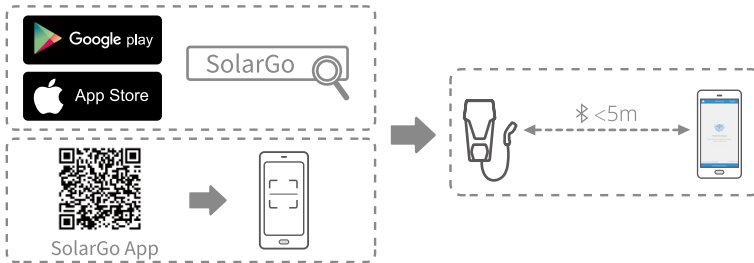
1

Connected to PV String and Batteries:

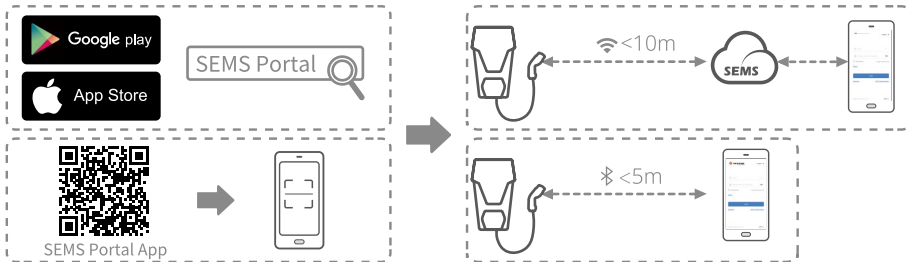
1 → 2 → 3



## Commissioning via SolarGo App



## Commissioning via SEMS Portal App



For more information, please scan the following QR for User Manual.



HCA Series  
User Manual



Official Website

**GoodWe Technologies Co., Ltd.**

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 [service@goodwe.com](mailto:service@goodwe.com)



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Local Contacts