V1.5 2026-01-30

Smart Meter

GM330
GMK330
GMK360

User Manual

GOODWE

Copyright Statement

NOTICE

The information in this user manual is subject to change due to product updates or other reasons. This manual cannot replace the safety instructions or labels on the equipment unless otherwise specified. All descriptions here are for guidance only.

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1 IMPORTANT SAFETY INSTRUCTIONS

1.1 General Safety

- The information in this document is subject to change due to product updates or other reasons. This document cannot replace the product labels or the safety precautions unless otherwise specified. All descriptions in the manual are for guidance only.
- Before installations, read through the documents to learn about the product and the precautions.
- All installations 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 the manufacturer if any damage is found or any component is missing.
- Strictly follow the installation, operation, and configuration instructions in this guide. 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.

1.2 Safety Disclaimer

- Make sure that the device is powered off before any operations.
- Ensure the cables are connected tightly, securely, and correctly. Inappropriate wiring may cause poor contact or damage the device.
- Additional circuit breakers are recommended on the voltage input side to avoid personal injury or device damage.
- If the voltage of the power grid fluctuates, resulting in the voltage to exceed 265V, in this case, long-term overvoltage operation may cause damage to the meter. It is recommended to add a fuse with a rated current of 0.5A on the voltage input side of the meter to protect it.
- CT direction: House-->Grid.
- Ensure to connect the voltage input side of the smart meter between loads and household meter, CT and L cable connected correctly as well. Otherwise,the monitoring data may be wrong.
- Pay attention to the silkscreens on the device when connecting the voltage input cables. A wrong connection may cause damage to the device.

- Pay attention to the silkscreens on the device when connecting the CT and RS485 to the smart meter. A wrong connection may cause incorrect reading values.
- In areas at risk of lightning, if the input cable of the device exceeds 10m and not wired with grounded metal conduits, you are recommended to use an external lightning protection device.
- The ingress protection rating of the smart meter is IP20, which is suitable to be installed indoors or inside of the distribution box. For outdoor installation, prepare a waterproof cover to protect the smart meter. Otherwise it will cause damage to the equipment, which is beyond the manufacturer's liability.
- After installing the CT to the power cable, do not plug or unplug the CT connection terminal on the smart meter, otherwise the meter may be damaged due to high voltage.

1.3 Device Storage

If the device is not to be installed or used immediately, ensure that the storage environment meets the following requirements.

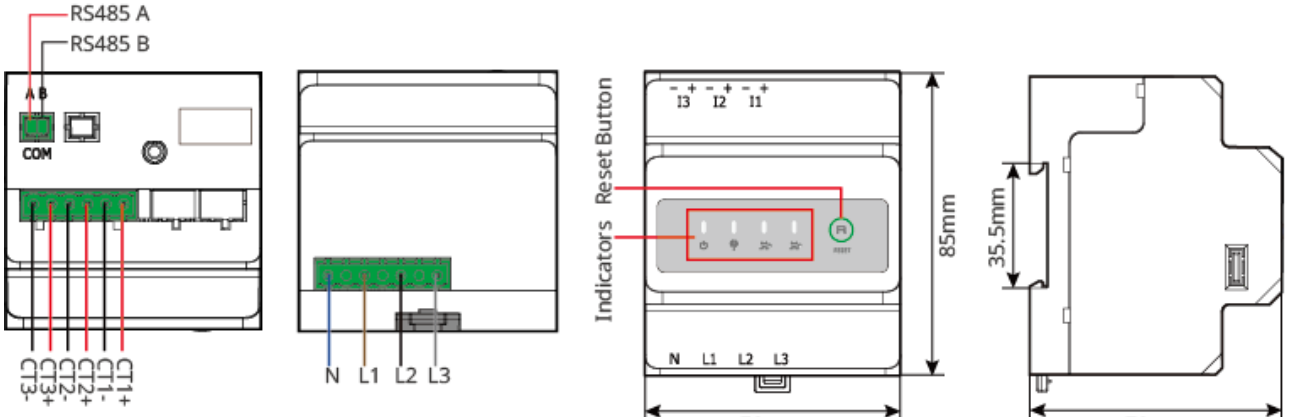
- Do not unpack the outer package.
- Store the device in a clean place. Make sure the temperature and humidity are appropriate and no condensation.
- If the device has been stored for a long time, it is recommended to be inspected and tested by professionals before being put into use.

2 Product Introduction

NOTICE

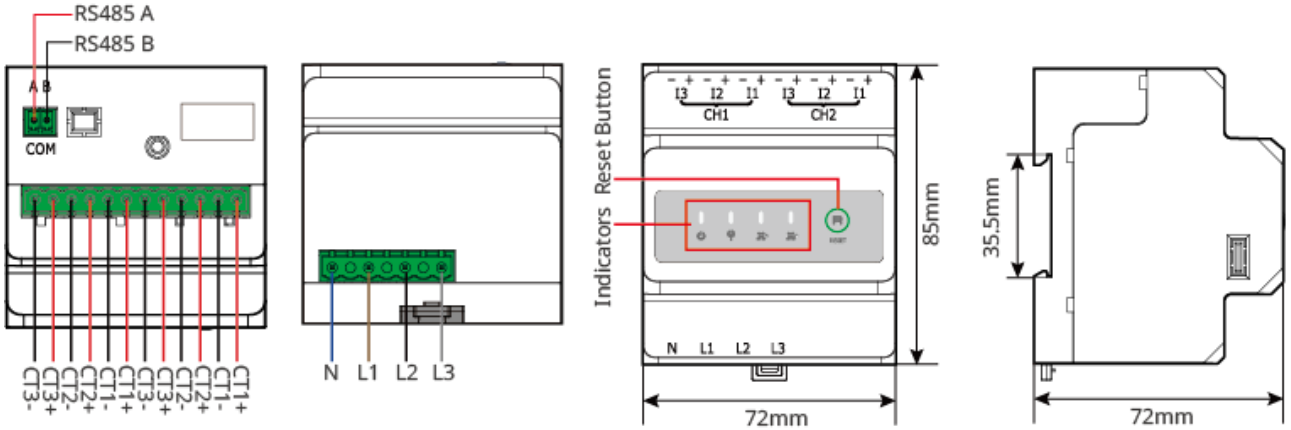
- The smart meter is intended for grid-tie point power control. Its generation and consumption readings are reference only and not for billing. The utility company's meter is the sole basis for billing.
- The CT type differs, refer to the actual configuration.

GMK330



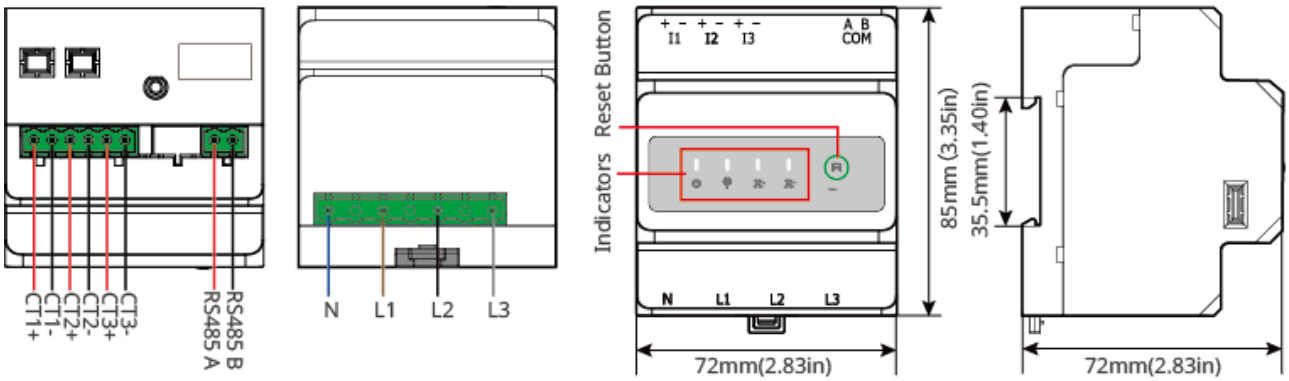
GMK10DSC0020

GMK360



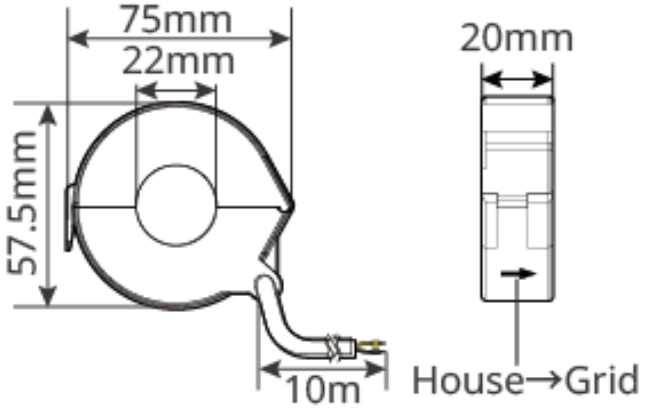
GMK10DSC0008

GM330



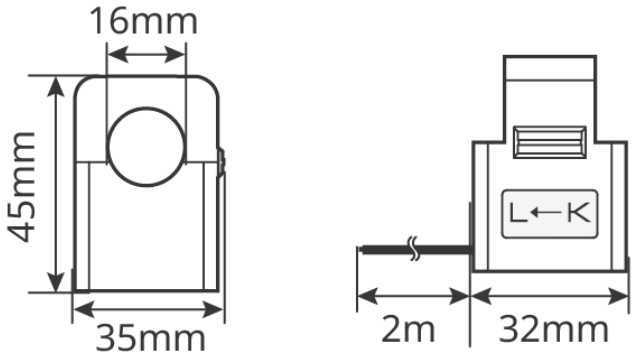
GMK10DSC0009

CT Type I



GMK10DSC0021

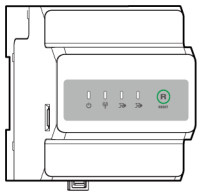
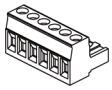
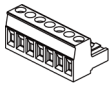
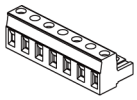
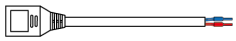
CT Type II



GMK10DSC0022

3 Installation and Wirings

3.1 Deliverables

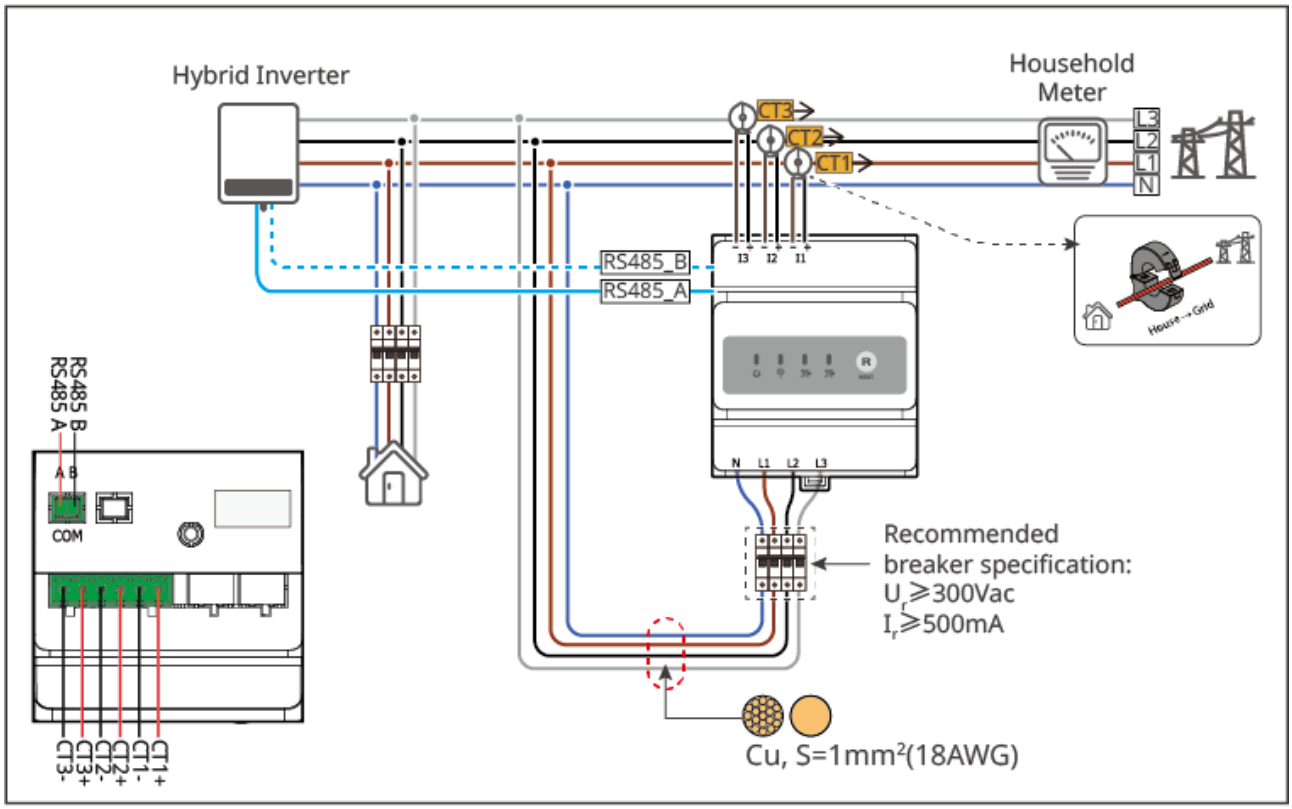
Parts	Descriptions	Parts	Descriptions
	Smart meter x1 GMK330:CT×3; GMK360: CT×6; GM330: CT x 0.		2PIN communication terminal x1 For GM330.
	6PIN communication terminal x1 For GM330.		7PIN communication terminal x1 For GM330.
	Meter communication terminal For GMK330/GMK360.		RS485 communication terminal x1
	2PINterminal and RJ45terminal connector x 1		Screwdriver x1
	PIN terminal x1 GMK330/GMK360: x 5; GM330: x 6.		Documents x1

3.2 Wiring System

NOTICE

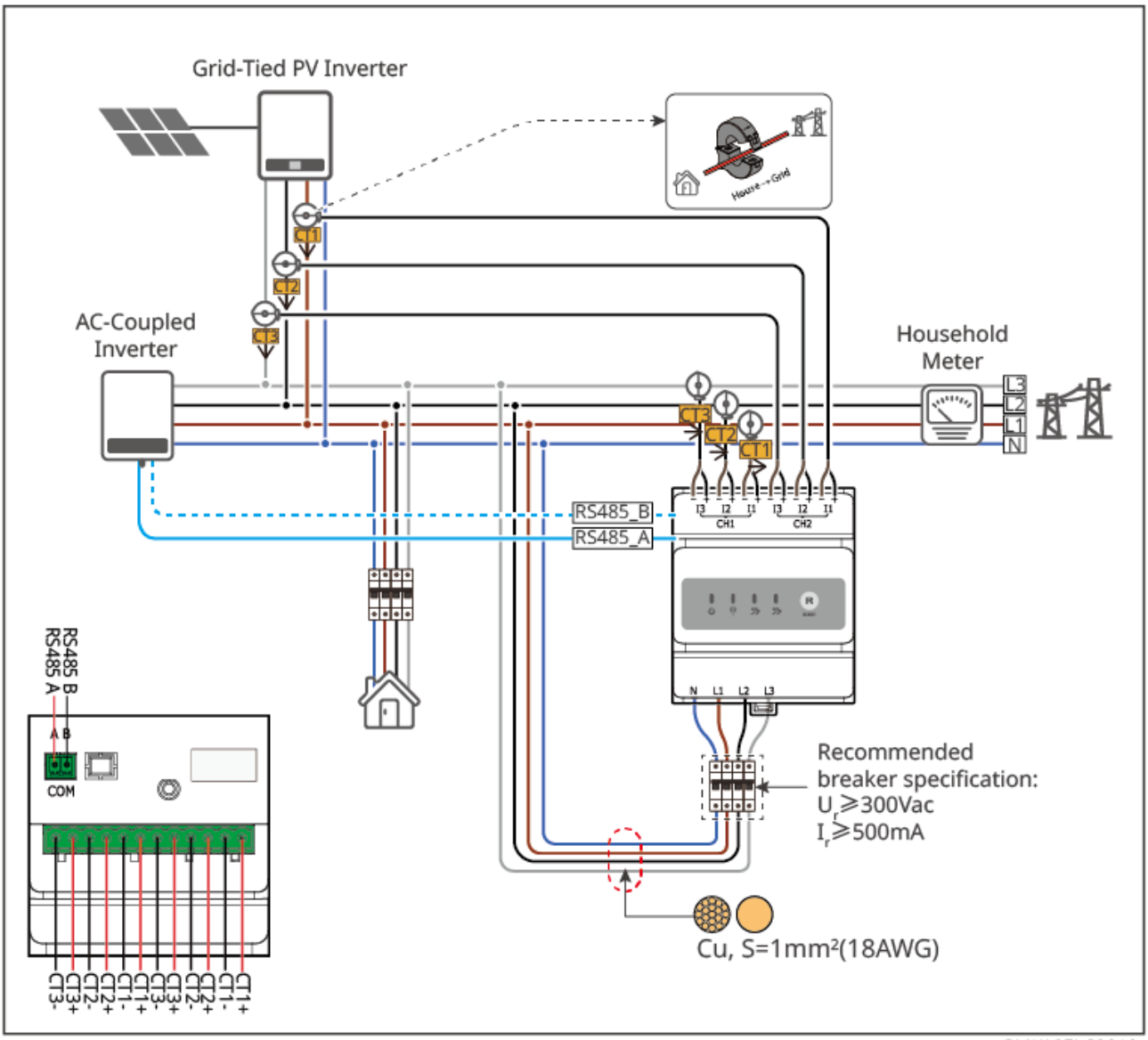
- Recommended cross-sectional area of the smart meter input power cable: 1mm^2(18AWG).
- For GM330:
  - Short circuit N and L2 in the three phase three wire system.
  - Set the CT ratio via SolarGo App. For example, set the CT ratio to 40 if a 200A/5A CT is selected
  - Refer to the SolarGo User Manual for more details.
- For GMK330, if extension cables are required, ensure they meet the following requirements:
  - To meet the current-carrying capacity requirements of the CT secondary side, use a cable with a cross-sectional area of 0.03 mm^2 (32 AWG) or larger, or a cable with a conductor diameter of no less than 0.2 mm.
  - The voltage rating of the extension cable must be equal to or greater than the actual application voltage.
  - To maintain metering accuracy, the total length of the extended CT cable must not exceed 30m.

GMK330

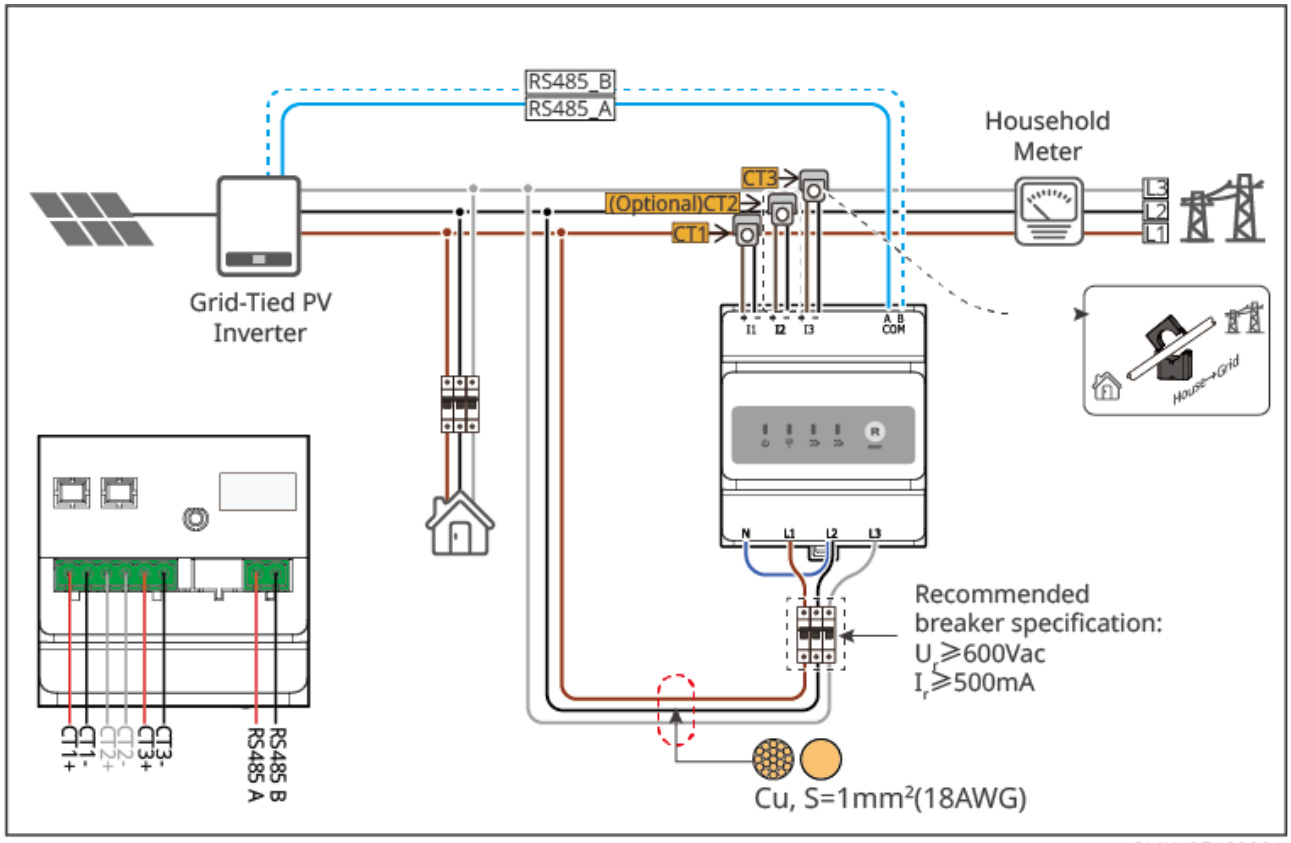


GMK10ELC0011

GMK360

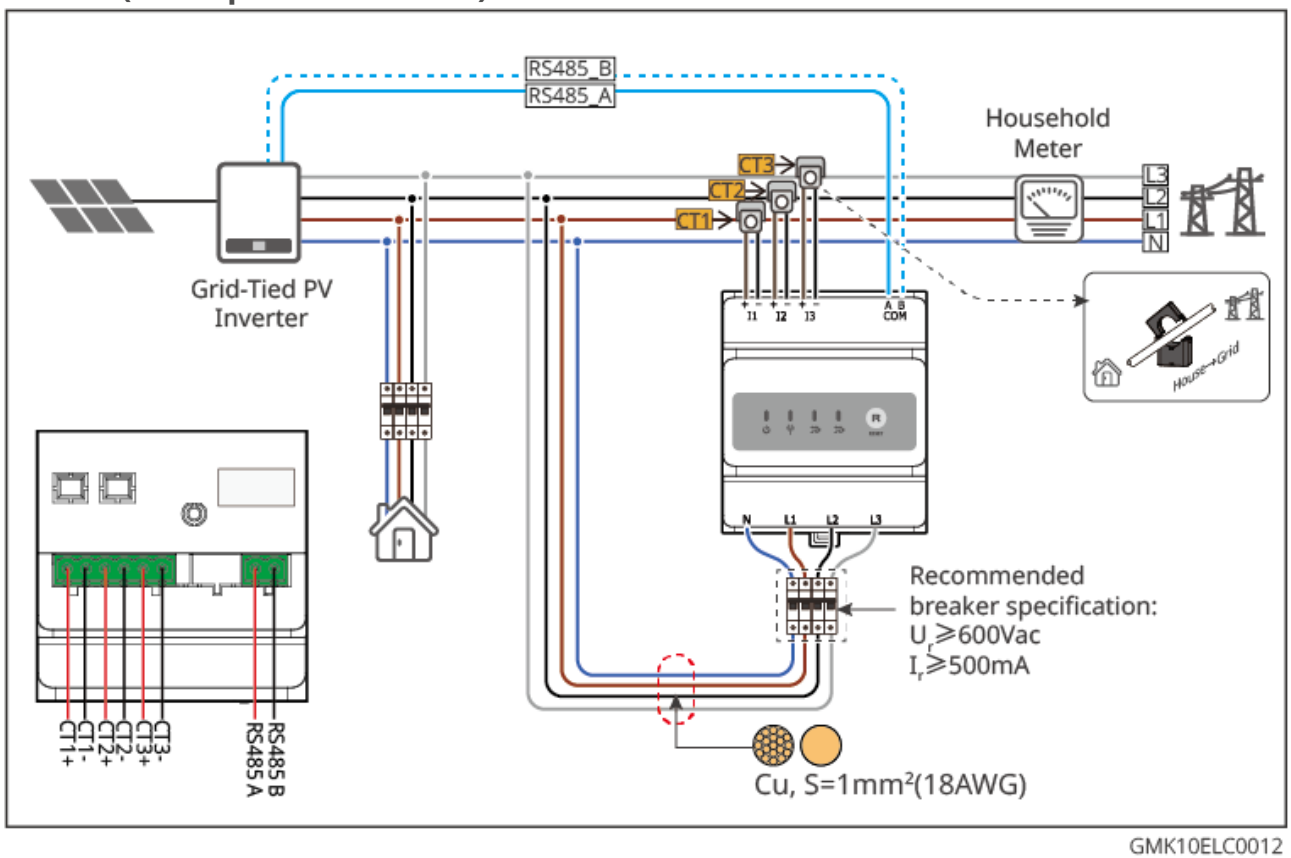


GM330 (three phase three wire)



GMK10ELC0001

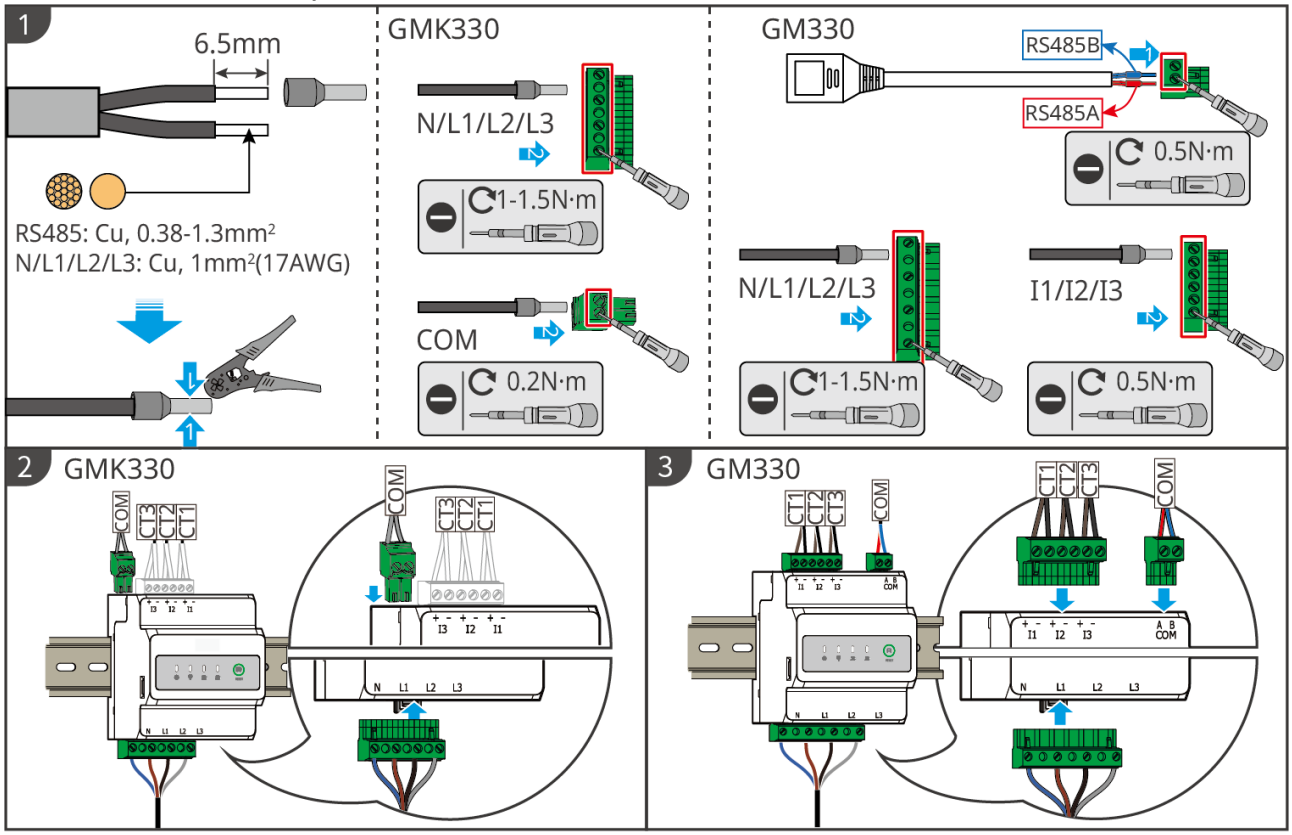
GM330 (three phase four wire)



GMK10ELC0012

3.3 Installing the Smart Meter

GMK330 and GMK360 are connected in the same way. The following illustrations take GMK330 as an example.



GMK10ELC0027

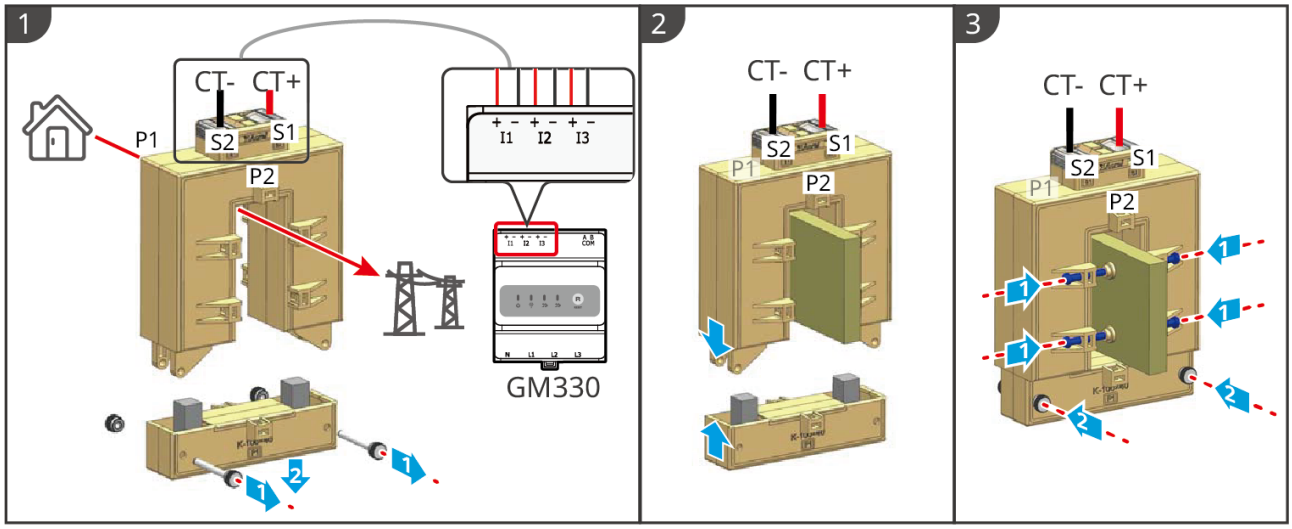
3.4 Connecting the CT Cable

NOTICE

- For GM330 only.
- Prepare the CT or contact the device manufacturer for purchasing.
- Specifications of the CT:
  - Set the current transformation ratio of the CT to nA/5A. (nA: For primary current of the CT, n ranges from 200 to 5000. Set the current value depending on the actual needs. 5A: the output current of the secondary current of the CT.)
  - The recommended precision of the CT: 0.5/0.5s, 0.2/0.2s. Ensure the sampling error for the CT current shall be ≤1%.
- The CT bore diameter shall be bigger than the outer diameter of AC power cable, to ensure the AC power cable can be inserted through CT.
- To maintain metering accuracy, the total length of the extended CT cable must not exceed 30m.
- Do not use network cable as CT cable, as excessive current may cause damage to the meter.
- The dimension and appearance of the CT differs slightly according to its type provided by the device manufacturer. However, the installation and wiring methods are the same.
- For specific CT wirings, refer to the documents provided by the respective manufacturer.

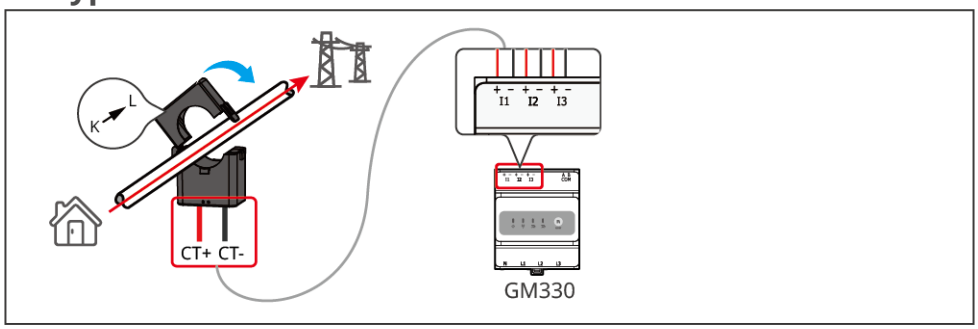
CT Type I

The recommended conductor cross-sectional area of the CT's secondary output cable: 1.6mm^2 (15AWG).



GMK10ELC0006

CT Type II



GMK10ELC0007

4 Device Commission

4.1 Check before Power ON

No.	Check Item
1	The device is firmly installed in a clean place where is well-ventilated and easy to operate.
2	The voltage input cable, CT cable, and communication cable are connected correctly and securely.
3	Cable ties are routed properly and evenly, and no burrs.

4.2 Power ON

Step 1: Connect the smart meter cables.
Step 2: Turn on the breaker on the voltage input side. Then the smart meter is powered on.

4.3 Indicator Descriptions

Type	Status	Descriptions
 Power	Steady on	Power on, no RS485 communication.
	Blinking	Power on, RS485 communication works properly.
	Off	Power off
 Communication	Off	Reserved.
	Blinking	Press the Reset button for more than 5s, power light and buying or selling electricity indicator flash: reset the meter.
	Steady on	Importing from the utility grid.

Type	Status	Descriptions
 Buying or selling electricity	Blinking	Exporting to the utility grid.
	Off	No importing or exporting.
 Buying or selling electricity (For GMK360 only)	Steady on	Importing from the utility grid.
	Blinking	Exporting to the utility grid.
	Off	No importing or exporting.

4.4 Power OFF

Step 1(Optional): Turn off the breaker on the voltage input side.
Step 2: Take out the terminals from the voltage input side of the smart meter, then the smart meter is powered off.

4.5 Replacing the Device

DANGER
Power off the device before operations and maintenance. Otherwise, the device may be damaged or electric shocks may occur.

Step 1: Disconnect all cables, including voltage input cables, CT cables, and RS485 cables.
Step 2: Pull the buckle of the smart meter, and remove the meter from the rail.
Step 3: Store the device properly. If the device needs to be used later, ensure that the storage conditions meet the requirements.

5 Technical Parameters

5.1 GM330

Model	GM330
Measuring Range	
Support Grid Type	1P2W/3P3W/3P4W
Operating Voltage(Vac)*	3P4W: 100~472 L-N 3P3W:100~472 L-L
Frequency (Hz)	50/60
Current Transformer Ratio	nA: 5A
Accuracy	
Voltage/Current	Class 0.5
Active Energy	Class 0.5
Reactive Energy	Class 1
Communication	
Communication Method	RS485
Communication Distance (m)	1000
General	
Dimensions (W×H×D mm)	72*85*72
Housing	4 modules
Weight (g)	240
Mounting	DIN rail
User Interface	4 LED, Reset Button

Model	GM330
Power Consumption (W)	< 5
Environment	
Ingress Protection Rating	IP20
Operating Temperature Range (℃)	-30-+70
Storage Temperature Range (℃)	-30-+70
Relative Humidity (non-condensing)	0-95%
Max. Operating Altitude (m)	3000

*Supports input voltage up to 1.1Un.
*The integrated meter CT has been unified to 120A:40mA. And the previous 200A:50mA will be phased out after June 2026.

5.2 GMK330

Model	GMK330
Measuring Range	
Support Grid Type	1P2W/3P3W/3P4W
Operating Voltage(Vac)*	3P4W: 90~264 L-N 3P3W:90~264 L-L
Frequency (Hz)	50/60
Current Transformer Ratio	120A: 40mA 200A: 50mA*
Number of Current Transformers	3
Accuracy	

Model	GMK330
Voltage/Current	Class 0.5
Active Energy	Class 0.5
Reactive Energy	Class 1
Communication	
Communication Method	RS485
Communication Distance (m)	1000
General	
Dimensions (W×H×D mm)	72*85*72
Housing	4 modules
Weight (g)	240
Mounting	DIN rail
User Interface	4 LED, Reset Button
Power Consumption (W)	< 5
Environment	
Ingress Protection Rating	IP20
Operating Temperature Range (℃)	-30-+70
Storage Temperature Range (℃)	-30-+70
Relative Humidity (non-condensing)	0-95%
Max. Operating Altitude (m)	3000

*Supports input voltage up to 1.1Un.
*The integrated meter CT has been unified to 120A:40mA. And the previous 200A:50mA will be phased out after June 2026.

5.3 GMK360

Model	GMK360
Measuring Range	
Support Grid Type	1P2W/3P3W/3P4W
Operating Voltage(Vac)*	3P4W: 90~264 L-N 3P3W:90~264 L-L
Frequency (Hz)	50/60
Current Transformer Ratio	200A: 50mA
Number of Current Transformers	6
Accuracy	
Voltage/Current	Class 0.5
Active Energy	Class 0.5
Reactive Energy	Class 1
Communication	
Communication Method	RS485
Communication Distance (m)	1000
General	
Dimensions (W×H×D mm)	72*85*72
Housing	4 modules
Weight (g)	240
Mounting	DIN rail
User Interface	4 LED, Reset Button

Model	GMK360
Power Consumption (W)	< 5
Environment	
Ingress Protection Rating	IP20
Operating Temperature Range (℃)	-30-+70
Storage Temperature Range (℃)	-30-+70
Relative Humidity (non-condensing)	0-95%
Max. Operating Altitude (m)	3000

*Supports input voltage up to 1.1Un.
*The integrated meter CT has been unified to 120A:40mA. And the previous 200A:50mA will be phased out after June 2026.

6 Contact Information

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