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ZENDURE

ZENDURE Smart Meter 3CT



Specification

Product Name	Zendure Smart Meter 3CT
Model	ZDSMCT
Weight	≈ 117.57 g
Dimensions	91 x 36.5 x 64 mm
Rated System Voltage	100 240VAC ±10%
Frequency	50/60Hz
Consumption	< 3W
Max Measurement per Channel	120A
Protection Level	IP20
Operating Temperature	-20 40°C
Operating Humidity (RH)	30 70%

Height of the altitude	0 2000M
Wireless Type	Bluetooth, 2.4GHz Wi-Fi

Safety Instructions

Usage

1. We strongly recommend that users carefully read the safety regulations and installation instructions and watch the installation video.
2. The Zendure Smart Meter 3CT must be installed by a licensed electrician, who should be familiar with all electrical codes, electrical wiring practices and experienced working with home electrical systems. They possess the necessary knowledge and experience to ensure the safety and accuracy of the installation.
3. During installation, safety Instructions and installation instructions must be followed to ensure all connections are secure and reliable. Please note that careless installation may result in equipment damage, electrical malfunction, or even injury. Therefore, for your own safety and proper device operation, please proceed with caution.
4. Do not install or operate the system under extreme climatic conditions such as lightning, snow, heavy rain, strong winds, etc.
5. Please check whether Smart Meter 3CT is damaged, cracked, or cables are damaged before operating. If any, please stop using the product immediately.
6. Do not use strong static electricity or magnetic fields.
7. It is prohibited to place the equipment in an environment with flammable, explosive gas, or smoke.
8. Do not attempt to replace the internal components of the equipment by any unauthorized personnel.
9. Ensure that the input power connection is disconnected before installation.
10. Do not install or operate the product outdoors or expose to moisture or submerge it in liquid. Only clean the ports with a dry cloth.
11. Do not install or operate the product in extreme temperatures. Do not dispose of the product in heat or fire.
12. Do not use the product if it is damaged or appears to be damaged. Do not disassemble the product. Consult official Zendure channels when service or repair is

required. Incorrect disassembly or reassembly may result in a risk of fire or injury to persons.

13. Adhere to all local and national safety regulations for installation and use.
14. This product is designed for residential use only. Keep out of reach of children and pets.
15. In case of a fire, only a dry powder fire extinguisher is suitable for this product.
16. If the product accidentally falls into water during installation and using, please do not continue installation or use, and contact customer service.

EC DECLARATION OF CONFORMITY

ZENDURE TECHNOLOGY CO., LIMITED declares that Smart Meter 3CT complies with Directive 2014/53/EU (RED) . 2011/65/EU(RoHS) , 2015/863/EU(RoHS) . The full text of the Declaration of Conformity is available at the following web address:

<https://zendure.de/pages/download-center>.

Declaration of conformity

The EU Declaration of Conformity can be requested at this address:

<https://zendure.de/pages/download-center>.

Disposal and Recycling

Disposal of packaging: dispose of the packaging separately by type of material.

Disposal of old equipment






(applies in the European Union and other European countries with separate collection (waste collection) Old equipment must not be disposed of in household waste. Every consumer is legally obligated to dispose of old equipment that can no longer be used separately from household waste, for example, at a collection point for recyclables. To ensure proper recycling and avoid a negative impact on the environment, electronic devices must be taken to an appropriate collection site. For this reason, electronic devices are marked with the symbol shown to the left.

Disposal

Batteries and accumulators must not be disposed of in household waste. As a consumer, you are equally obligated to dispose of all batteries and accumulators, regardless of whether they contain pollutants or not, at a designated collection point.

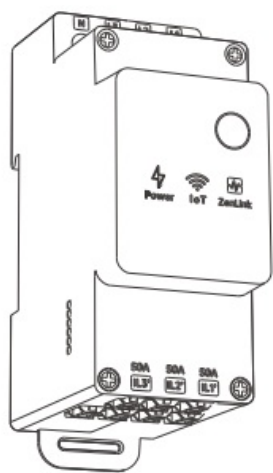
Marked with: Cd = Cadmium, Hg = Mercury, Pb = Lead. Discharge any built-in or accessory batteries before disposing.

Symbols Used in This Guide

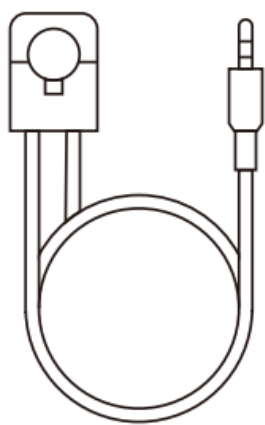
Symbol	Explanation
	A high-risk hazard that, if not avoided, could result in death or serious injury.
	Important information that you must pay attention to.
	Included with your product
	Optional (not included)
	Indicates additional information on correct use or useful tips.

What’s in the Box

- Zendure Smart



- Meter 3 x 120A Current Transformers(CT)



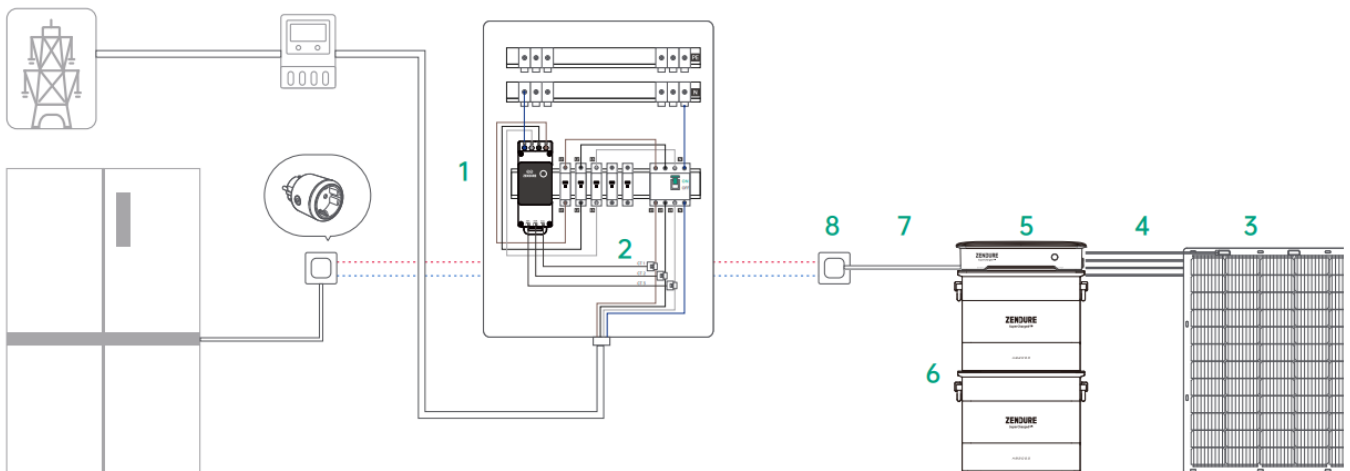
- User Manual



Overview

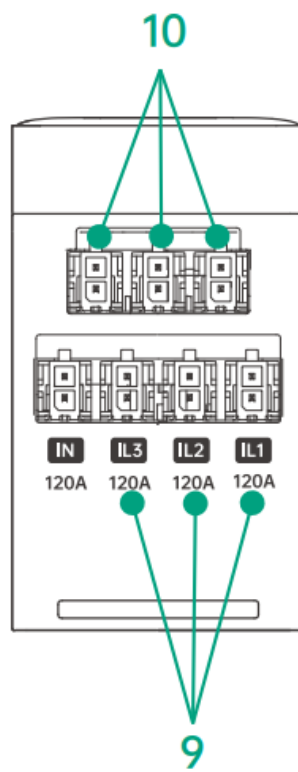
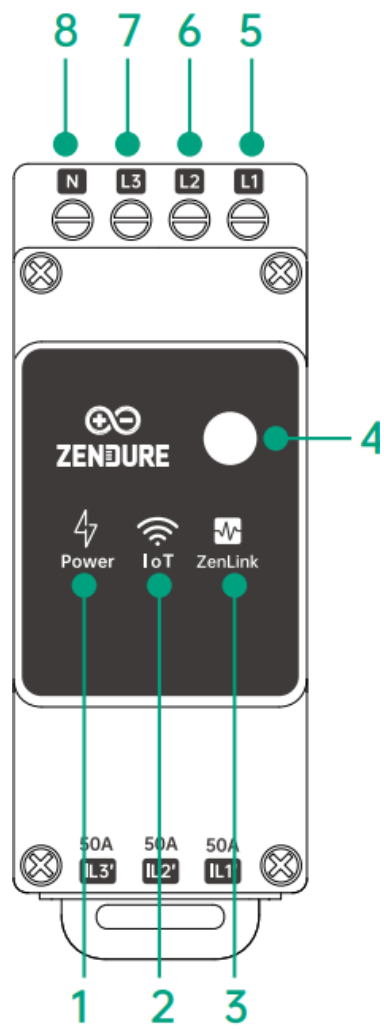
System Overview

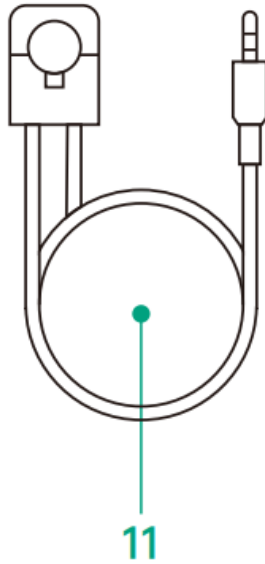
The Zendure Smart Meter 3CT is a DIN rail-mounted smart meter that monitors voltage, current, and power data in real-time. It can connect via Wi-Fi and Bluetooth to establish connections with other devices and cloud servers, enabling control of operating modes, input/output power, and other functions.



NO.	Name	Description	Included / Not Included
1	Zendure Smart Meter	Monitors household electricity consumption and wirelessly communicates with the inverter to optimize energy usage.	✓
2	3 x 120A Current Transformers(CT)	converts high electrical currents into lower, proportional currents for measurement, protection, and monitoring in electrical systems.	✓
3	Solar Panel	converts sunlight directly into electrical energy through the photovoltaic effect, generating clean and renewable electricity.	✗
4	Solar Cables	Used for the connection between the hybrid inverter and solar panels.	✗
5	hybrid inverter	Interconnects solar panels, batteries, and the household grid to efficiently operate the energy storage system and streamline power conversion among them.	✗
6	Battery	Stores electricity for household consumption as needed.	✗
7	AC Power Cable	Connects the Hyper 2000 to household socket.	✗
8	Zendure Satellite Plug	Used to monitor device performance and communicate wirelessly with Zendure inverter to optimize energy usage.	✗
9	3 x 50A Current Transformer (CT)	Monitor the current and consumption of individual sub-circuits.	✗

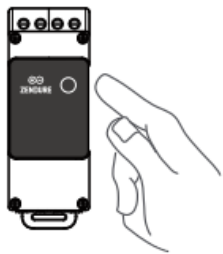
Product Overview











2	IoT Status Indicator
3	ZenLink Status Indicator
4	Button
5	Voltage L1 input (brown)
6	Voltage L2 input (black)
7	Voltage L3 input (gray)
8	Neutral Conductor input
9	120A Current Transformer Connector
10	50A Current Transformer Connector
11	3 x 120A Current Transformers(CT1~CT3)

Button Controls

Button	Action	Function
	Press for 3 second	Reset the Wi-Fi connection
	Press for 6 second	Reset the Smart Meter 3CT

LED Display

LED Indicator	LED Description	Detailed Explanation
	All LEDs are off	No power
 Power	Solid green power indicator	Power On
 Power	Blinking red power indicator	Device error. Please check the app for details.
 IoT	Blinking green IoT indicator	Network disconnected state and waiting for connecting to Wi-Fi
 IoT	Solid green IoT indicator	Normal Wi-Fi connection
 Power ZenLink	Blinking Power and ZenLink indicator	Updating via OTA

Installing Your Smart Meter 3CT

Pre-assembly

Important Safety Instructions






1. Risk of Electric Shock: The Smart Meter 3CT device must be installed by a qualified electrician with caution. Before making any connections, ensure that the circuit is de-energized.
2. Connect the device only as described in this manual. Any other method may result in damage or injury.
3. Do not place the device where it may get wet.

- 4. Keep the Smart Meter 3CT device out of reach of children.
- 5. Do not connect CTs to circuits exceeding the specified maximum load (50A/120A.
- 6. The Smart Meter 3CT three-phase smart meter can be used as a single-phase smart meter.

Installation Preparation

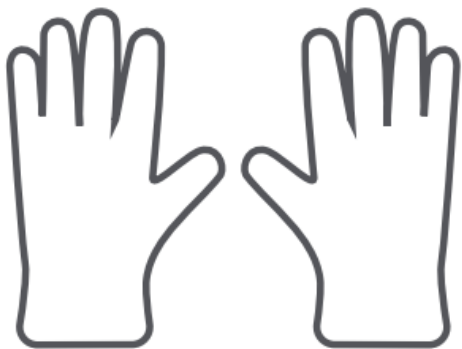
- 1. Power cables: Need to be purchased separately. It is recommended to use solid single-core cables to connect to the Smart Meter 3CT. These cables should have insulation heat resistance and flame retardant properties that comply with European regulations.

Identifying Electrical Circuits in the Distribution Box

Wire Type	Color	
Live Wire L1	Brown	
Live Wire L2	Black	
Live Wire L3	Gray	
Neutral Wire N	Blue	
Protective Earth Wire PE	Yellow-Green Striped	

Put on Insulating Gloves

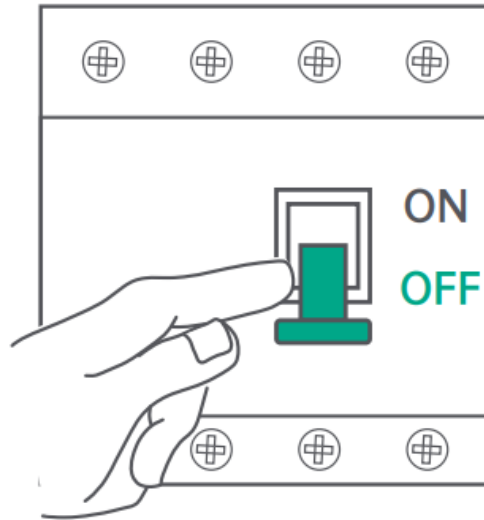
Note: Not included. To be provided by the electrician/user.



Turn Off the Power

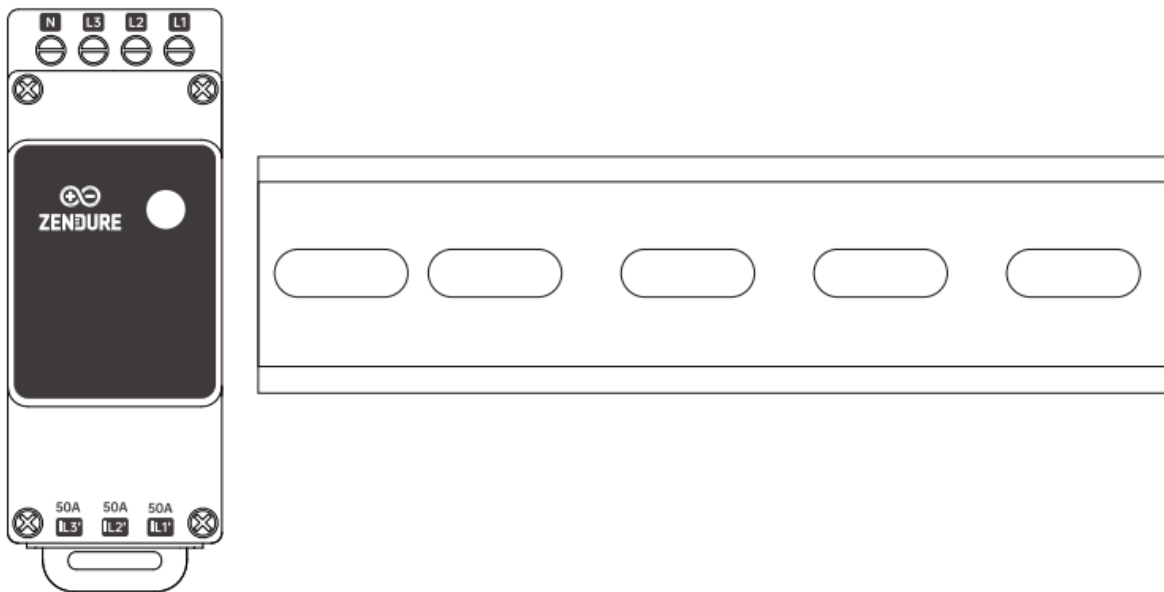
Before beginning equipment installation, ensure that the power is turned off and there is no voltage at the terminals to avoid an electric shock. This can be verified using a multimeter. Once you have confirmed there is no voltage present, you may proceed with

the subsequent installation steps.



Mounting the Smart Meter 3CT

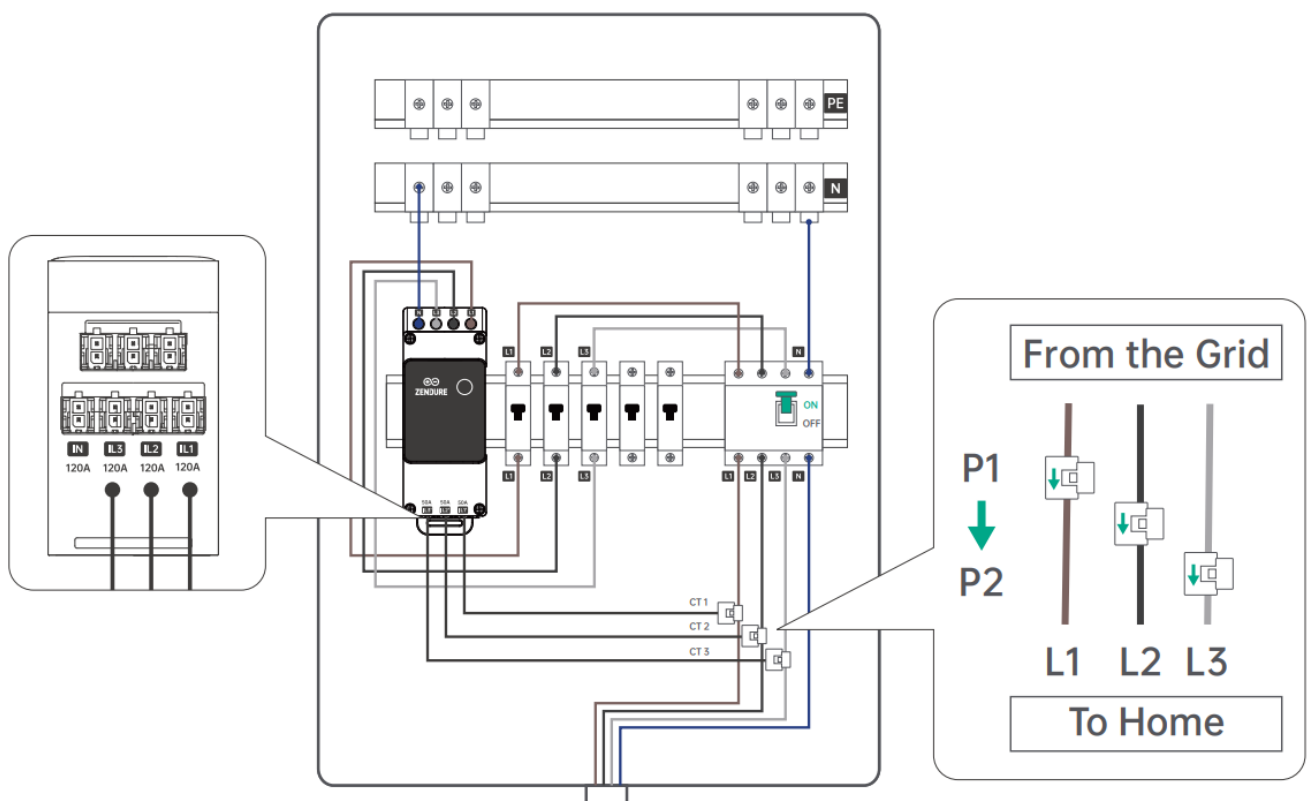
1. Mount the device in a suitable distribution box or control panel. Ensure there is enough space for wiring and ventilation.
2. The device can be mounted on a DIN rail, which is common in most installation control cabinets.



Wiring

1. Prepare the power cables according to the color coding of Live Wire L1/L2/L3 and neutral wire.
2. Connect the four power cables to the voltage L1/L2/L3 inputs and neutral conductor input on the Smart Meter 3CT.

3. Connect the neutral wire, already connected to the Smart Meter 3CT, to the N wire terminal in the electrical box.
4. Connect the Live Wire L1/L2/L3, already connected to the Smart Meter 3CT, to the corresponding terminal of the circuit breaker.
5. Connect the 120A Current Transformers (CT1-CT3) sequentially to the 120A Current Transformer Connectors on the Smart Meter 3CT. If you purchased 50A Current Transformers, connect them to the 50A Current Transformer Connector.
6. Install the 120A CT on live wires L1, L2, and L3 off the CD, following the current flow direction. Each CT is marked with P1 → P2. The arrow direction (P1 → P2) must align with the current flow in the circuit. This means:
 1. The P1 side of the CT should be positioned towards the grid
 2. The P2 side should be positioned towards the home
 3. This orientation must be followed for all three phases (L1, L2, and L3)



Power On

Check that all connections are safe and error-free before powering up the device. Turn on the main circuit breaker of your home electrical system. The Smart Meter 3CT will automatically power up, indicated by:

1. Power LED: Solid green power indicator

2. LoT LED: Blinking, indicating Wi-Fi connection is needed



Zendure App Setup

The Zendure app is continually being improved and may change over time. If there are any differences between the instructions in this guide and the app, follow the in-app instructions. Privacy Policy: By using Zendure Products, Applications, and Services, you consent to the Zendure Terms of Use and Privacy Policy, which you can access via the “About” section of the “User” page in the Zendure app. The Zendure app allows users to monitor and manage power systems, offering real-time power monitoring, historical records, charge/discharge scheduling, and more.



1. To download the Zendure app, scan the QR code or search “Zendure” in the Apple App Store® or Google Play Store.
2. Open the Zendure app. Log in or sign up.
3. Follow the in-app instructions to add your Smart Meter 3CT.
4. Please update the firmware to the latest version in the settings before using.

Maintenance

Risk of Electric Shock: The Smart Meter 3CT device must be removed by a qualified electrician with caution. Before disconnecting any wires, ensure that the circuit is de-energized.

- Put on Insulating Gloves (Note: Not Included, To Be Provided by Electrician/User)
- Turn off the main circuit protection switches to avoid an electric shock.
- Remove Current Transformers:
 - Remove CT1~CT3 from the home's L1, L2, L3 circuits
 - Disconnect them from the CT Connector on the Smart Meter 3CT
- Disconnect Power Wires:
 - Remove Live Wires (L1/L2/L3) connecting between the Smart Meter 3CT and home circuit breaker
 - Remove Neutral Wire (N) connecting between the Smart Meter 3CT and the home circuit breaker
- Unmount Device: Remove the Smart Meter 3CT from the DIN rail

FAQs

Q: Can I install the Smart Meter 3CT by myself?

A: No, the Smart Meter 3CT must be installed by a licensed electrician for safety and proper operation.

Q: What should I do if I notice any damage to the Smart Meter 3CT before operating?

A: If you notice any damage, such as cracks or damaged cables, please stop using the product immediately and seek assistance.

Q: Can I clean the product with water?

A: No, only clean the ports with a dry cloth. Do not expose the product to moisture or liquid.

Documents / Resources



[ZENDURE Smart Meter 3CT \[pdf\]](#) User Manual

Smart Meter 3CT, Meter 3CT, 3CT

References

- [User Manual](#)

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📁 ZENDURE ZENDURE

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