

Zendure Smart Meter introduction

2025/06

Our vision is to become a clean energy technology and service platform to provide sustainable electricity supply to household users.
We envision being a clean Energy Tech platform that sustains communities and families.

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Smart Meter 3CT

01

Product Appearance

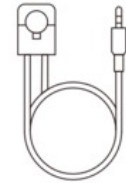
Product Appearance



Smart Meter 3CT



Accessory

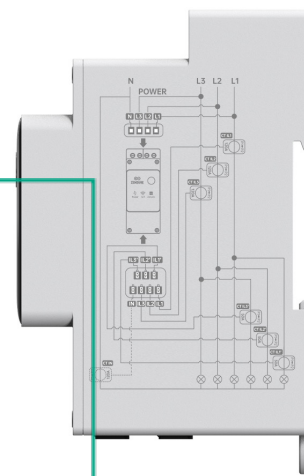
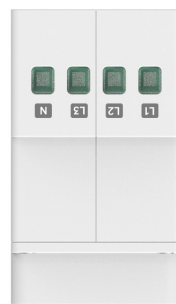
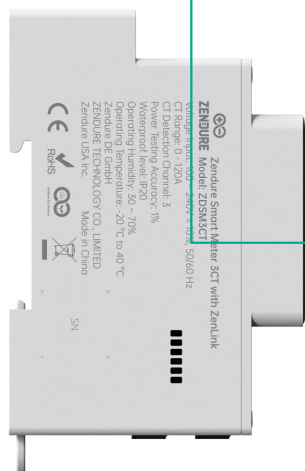


3 x 120A Current Transformers(CT)

Product Appearance

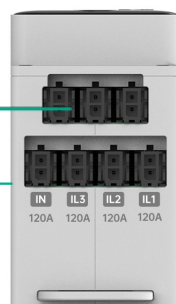
Display

Power, IoT, ZenLink



50A current transformer

*Clamps needs to be purchased separately.



120A current transformer

*120A*3 Clamps included

Button

(Network configuration, device reset)

DIN rail fixings

Size: 91 x 36.5 x 64 mm

02

Product Positioning

Product Positioning

Product Positioning

Zendure Smart Meter 3CT is a DIN-rail mounted **three-phase energy meter** equipped with **WLAN and Bluetooth** connectivity. It monitors household power consumption and communicates wirelessly with energy storage systems to **optimize energy usage**.

An essential addition to the Zen+Home ecosystem, the Smart Meter 3CT enables precise energy monitoring and intelligent device coordination, providing a seamless, all-in-one smart energy management solution for Zendure solar and storage users.

User Pain Points Solved

Current alternatives like **Shelly/ EcoFlow/Anker/Marstek Smart Meters** present key challenges:

1. Some CT meters lack local communication capabilities—data is lost during network instability.
2. No built-in safety measures for individual circuit protection.

The Smart Meter 3CT addresses these gaps, offering stable local communication and improved energy safety management.

Target Users

Homeowners and professionals looking to:

Maximize the efficiency of Zendure solar + storage systems

Achieve smarter, automated home energy control

*Compatibility:

Compatible with: Hyper 2000, SolarFlow 800, SolarFlow 800 Pro, SolarFlow 2400 AC

Not Compatible with: Hub 1200/Hub 2000/AIO 2400

03

Product KSP

Key Selling Points

Precision
Stability
Safety

1

Prevent Energy Waste

High-Precision & Fast-Response Smart Control

The Smart Meter 3CT enables real-time monitoring with **1W level** measurement accuracy and rapid response. It ensures solar generation and storage are fully utilized, reducing energy waste and maximizing self-consumption.

2

Stay Connected, Even When Offline

Reliable Local Communication

Unlike many competitors, the Smart Meter 3CT supports **local data transmission** —even when the Internet is down. Your energy optimization and automations continue uninterrupted, ensuring stable operation under all conditions.

3

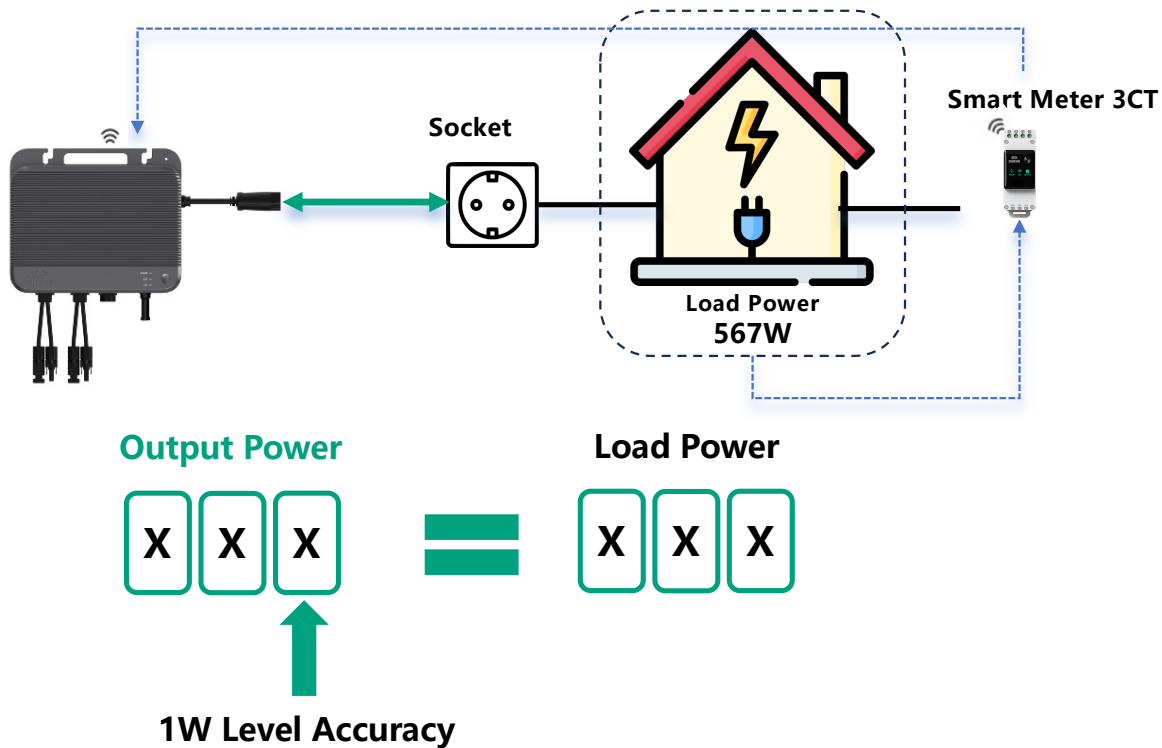
Circuit-Level Protection

Enhanced Safety with Sub-Circuit Monitoring

Provides up to **3 sub-circuits for monitoring**. Identify abnormal consumption early and protect appliances and home installations with circuit-specific safety measures.

KSP 1: Prevent Energy Waste

Smart, High-Precision Energy Management



User Benefit

- 99% Measurement Accuracy: Tracks every kilowatt-hour with confidence
- <3s Response Time: Enables near-instantaneous adjustment
- **1W-level Regulation Precision**
For SolarFlow 800 & Hyper 2000: From 30W and above
For SolarFlow 800 Pro & SolarFlow 2400 AC: From 50W and above

Scenarios:

1. For Balcony Power Plant Users

Smart Meter 3CT works seamlessly with Zendure energy systems. It detects home energy demand in real-time and intelligently adjusts storage system output to match consumption.

2. For Existing Rooftop PV Users

When the meter detects excess PV energy being fed into the grid, it signals the storage system to start charging. This captures surplus solar energy that would otherwise be lost—converting it into stored power for later use.

KSP 2: Reliable Local Communication

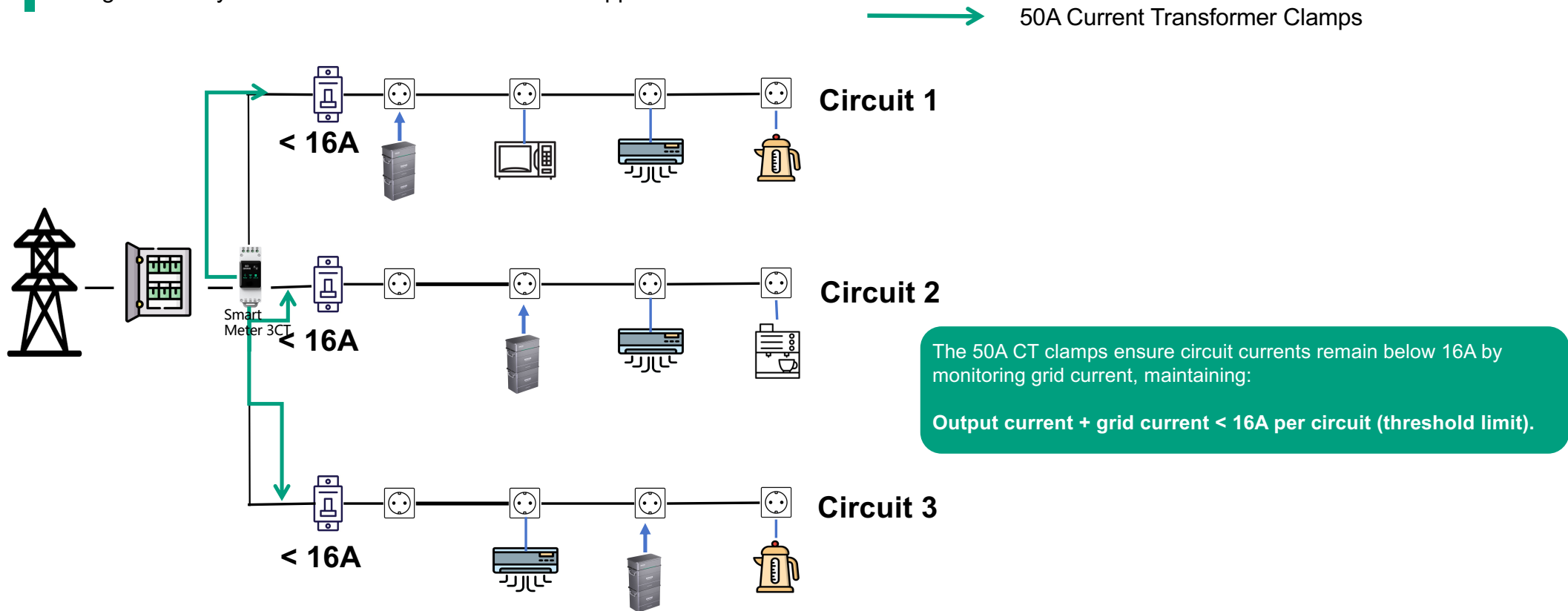
No Internet? No Problem. Smart Features Stay On.



	Local Communication	Cloud-Based Communication
Device	Smart Meter 3CT and main unit(e.g. SF800 Pro, SF 2400 AC + AB3000X)	Smart Meter 3CT and main unit(e.g. SF800 Pro, SF 2400 AC + AB3000X)
Communication	Same Wi-Fi router connection, Local Area Network (LAN)	Connected to the internet, Wide Area Network (WAN)
Difference	Even if the internet goes down, smart functions like surplus energy charging continue running seamlessly.	If the internet is poor or disconnected, smart features stop functioning.
Scenario		

KSP 3: Circuit-Level Safety Protection

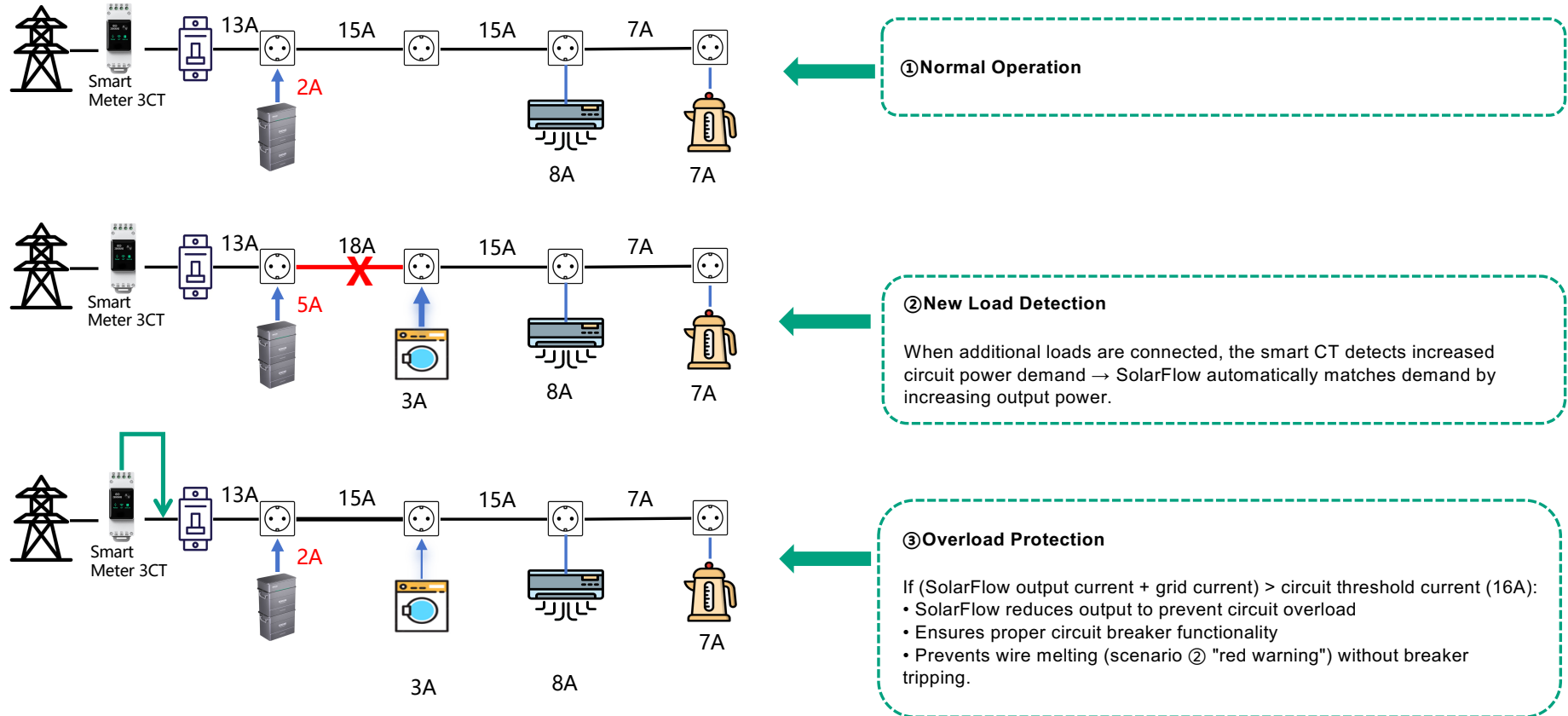
Safeguard Every Line. Prevent Overload Before It Happens.



- Zendure Smart Meter 3CT offers line-specific protection. It prevents overloads at the circuit level in real time, protecting appliances and home wiring from electrical risks—even in high-load usage scenarios.

- Shelly and Anker alternatives only support phase-level monitoring and cannot detect or respond to individual circuit risks. As a result, hidden dangers may remain unnoticed until a failure occurs.

KSP 3: Circuit-Level Safety Protection (How it works)



04

Product Overview

Features & Technical Specifications

Feature	Description
Installation Type	DIN-rail mounted
Phases Supported	3-phase
CT Clamps Included	3 × 120A CT clamps (3 × 50A CT clamp, optimal split for circuit-level monitoring not included)
Accuracy	± 1%
Response Time	<3 seconds
Communication Protocols	Wi-Fi 2.4GHz (802.11b/g/n), Bluetooth
Local Communication	Supports LAN (Wi-Fi router without internet)
Cloud Communication	Via internet-connected Wi-Fi
Max Circuit Current Threshold	16A per circuit (with load balancing logic)
Rated System Voltage	100~240VAC ± 10%
Frequency	50/60Hz
Operating Temperature	-20~40°C
Dimensions	91 x 36.5 x 64 mm
Certifications	CE, RoHS, Reach
Compatibility	Hyper 2000, SolarFlow 800, 800 Pro, 2400 AC (Not compatible with Hub 1200/2000, AIO 2400)

Product Spec

Name	Zendure Smart Meter 3CT
Model	ZDSMCT
Weight	117.57 g
Dimensions	91 x 36.5 x 64 mm
Rated System Voltage	100~240VAC \pm 10%
Frequency	50/60Hz
Consumption	< 3W
Max Measurement per Main Channel	120A
Max Measurement per Sub Channel	50A
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

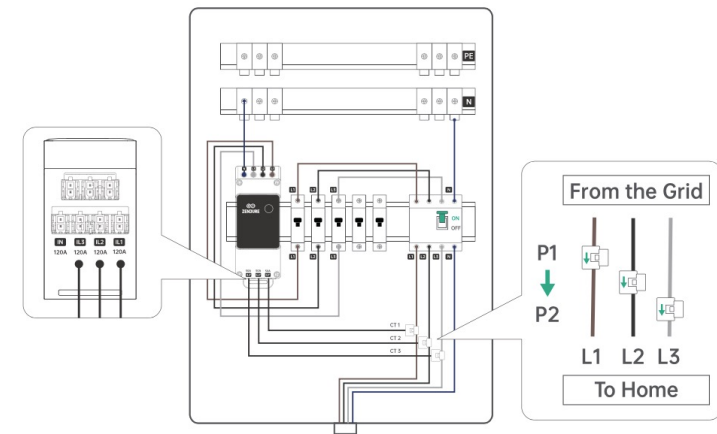
Competitor Comparison – Zendure vs. Shelly & Anker

Feature	Zendure Smart Meter 3CT	Shelly 3EM / Pro 3EM	Anker Smart Meter
Communication	Local (LAN) + Cloud	Cloud only	Cloud only
Offline Smart Function Support	✓ Yes	✗ No	✗ No
Response Time	<3s	<3s	<3s
Circuit-Level Monitoring	✓ Yes	✗ No	✗ No
Accuracy	±1%	±1%	±1%
Integration with Storage	✓ Native with Zendure	✗ 3rd party integration	✓ With Anker only
Circuit-Level Safety Overload Protection	✓ 16A/circuit threshold	✗ Not supported	✗ Not supported

Installation Overview – Quick Setup Guide

Installer Checklist:

1. **Mount on DIN rail** inside electrical cabinet
2. Connect **3 CT clamps** to incoming power lines (L1/L2/L3)
3. Optionally attach **circuit-level CTs** for specific lines*
4. Connect device to **same Wi-Fi router** as Zendure storage system
5. Follow **Zendure App** for pairing and configuration (via Bluetooth or Wi-Fi)
6. Test real-time monitoring and automation trigger (e.g., surplus charging)



Installation Time Estimate: ~20–30 mins for trained installer

Included in Box:

- 1 × Smart Meter 3CT
- 3 × CT clamps
- User Manual

*50A current transformer clamps needs to be purchased separately.

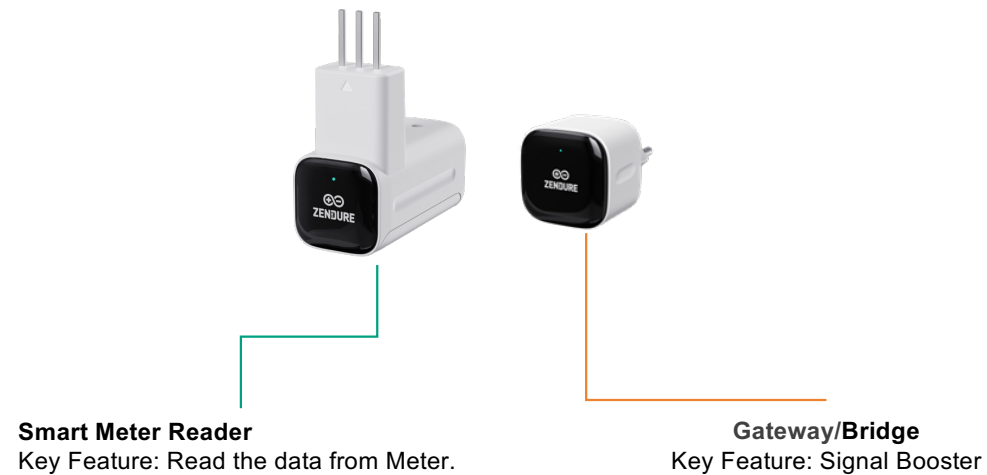
Smart Meter TIC

01

Product Appearance

Product Appearance

Smart Meter TIC



Product name	Country	Meter Reader Power Options	Gateway Power
Smart Meter TIC	France	• TIC interface	Household socket

02

Product Positioning

Product Positioning

Product Positioning

Zendure Smart Reader is a **plug-and-play** energy monitor with WLAN and Bluetooth connectivity. It tracks household electricity consumption and wirelessly communicates with Zendure storage systems to optimize energy usage.

User Pain Points Solved

Traditional Smart CT:

- Require professional installation, costing ~€100- € 200 per device
- Lack of local communication — functionality drops when the internet fails

Zendure Smart Meter Reader:

- True plug & play
- Reliable operation via local communication

Target Users

Perfect for entry-level users who want:

- To improve solar + storage energy efficiency
- An easy, no-installation way to automate home energy use
- A reliable, cloud-independent monitoring solution

*Compatibility:

Compatible with: Hyper 2000, SolarFlow 800, SolarFlow 800 Pro, SolarFlow 2400 AC

Not Compatible with: Hub 1200/Hub 2000/AIO 2400

03

Product KSP

Key Selling Points

Smart Meter TIC

1

No Electrician Required


Save time and installation costs

2

Energy Visualization

Real-time household electricity data tracking, can also track consumption patterns across daily, weekly, monthly & yearly cycles

Smart Meter Market Status Overview:

	France
Smart Meter Penetration Rates:	<ul style="list-style-type: none">• Linky smart meters: >95% coverage• Standard interface: TIC
Meter Reference	

Source: https://www.energie-info.fr/fiche_pratique/les-compteurs-communicants-linky-et-gazpar/
https://www.smart-energy.com/industry-sectors/smart-meters/alliander-awards-1-5-million-address-smart-meter-replacements/?utm_source=chatgpt.com

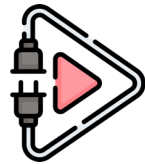
KSP1- No Electrician Required

Save time and installation costs



Smart Meter TIC

Plug and Play



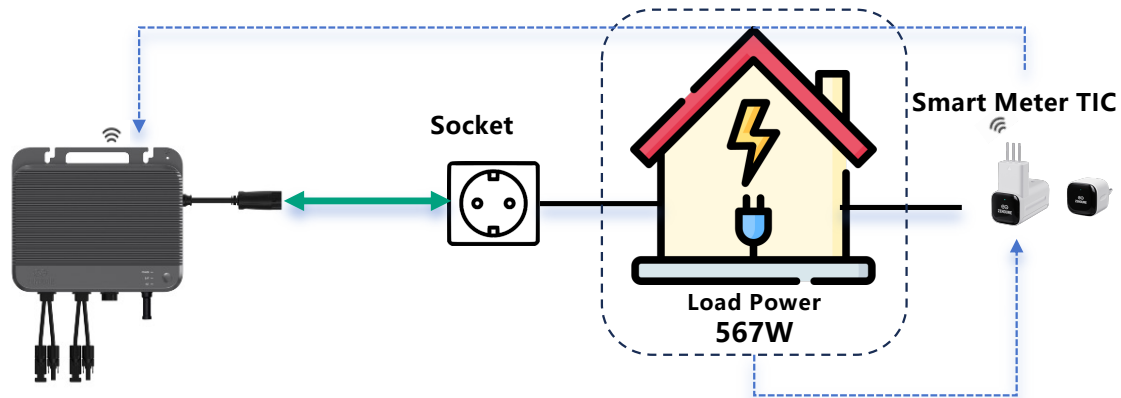
France Linky Electricity Meter



User benefits:
No installation fees

KSP 2: Energy Visualization

Real-time household electricity data tracking



User Benefit

Real-time household electricity data tracking, can also track consumption patterns across daily, weekly, monthly & yearly cycles

04

Product Spec

Product Spec

Product	Smart Meter TIC (France)	
Device Name	TIC Reader	Bridge
Input Voltage	AC 6 V, 50 kHz	AC 100~240V, 50/60Hz
Rated power	130mW Max	3W Max
Communication Frequency	868MHz	868MHz, 2.4GHz
Operation Temperature	-20°C-50°C	
Product Size		42.92*42.92*71.49 mm



Product comparison

Product comparison

