

SolarFlow 2400 AC

Effortless AI Energy Management, Shaping the Future of Smart Storage



About Zendure



Purpose :

To Accelerate a Sustainable Future.



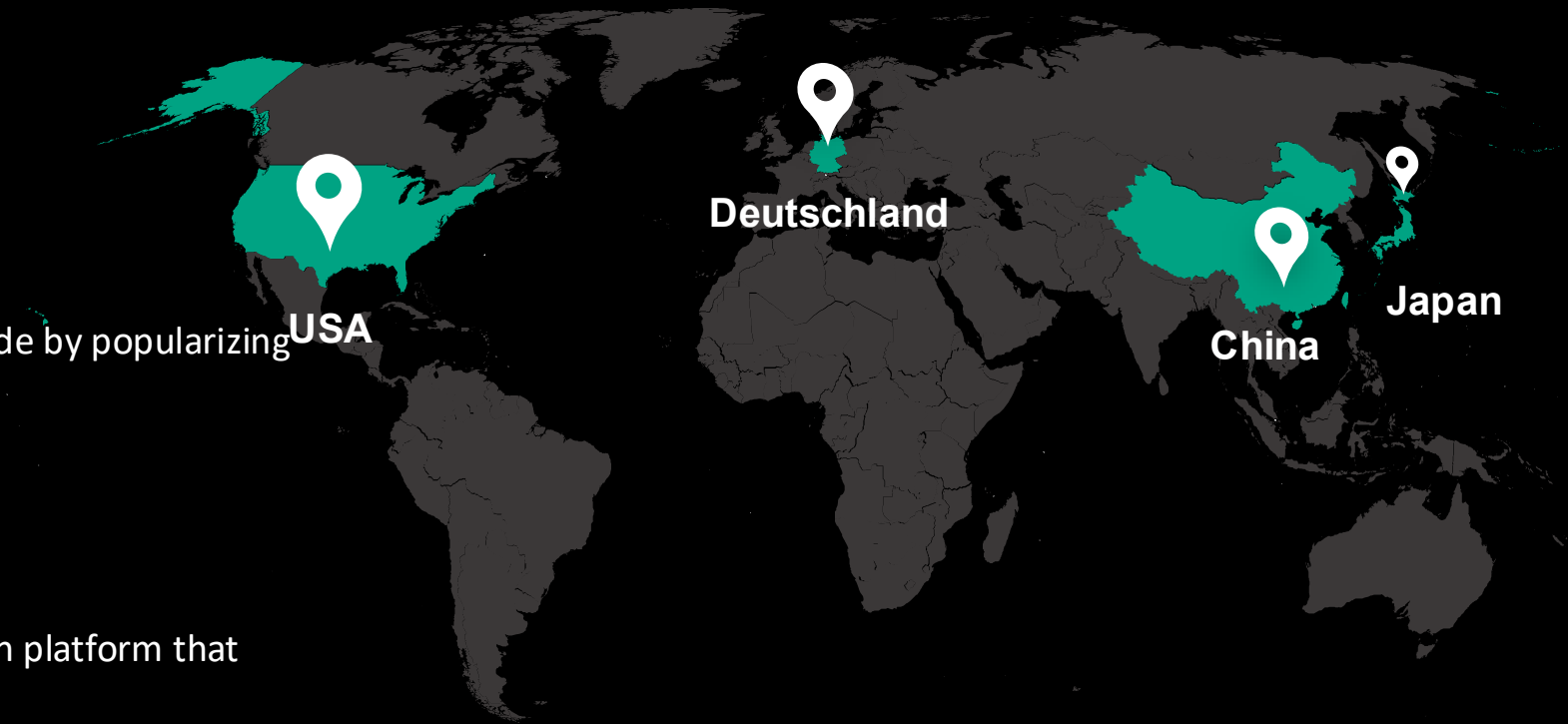
Mission :

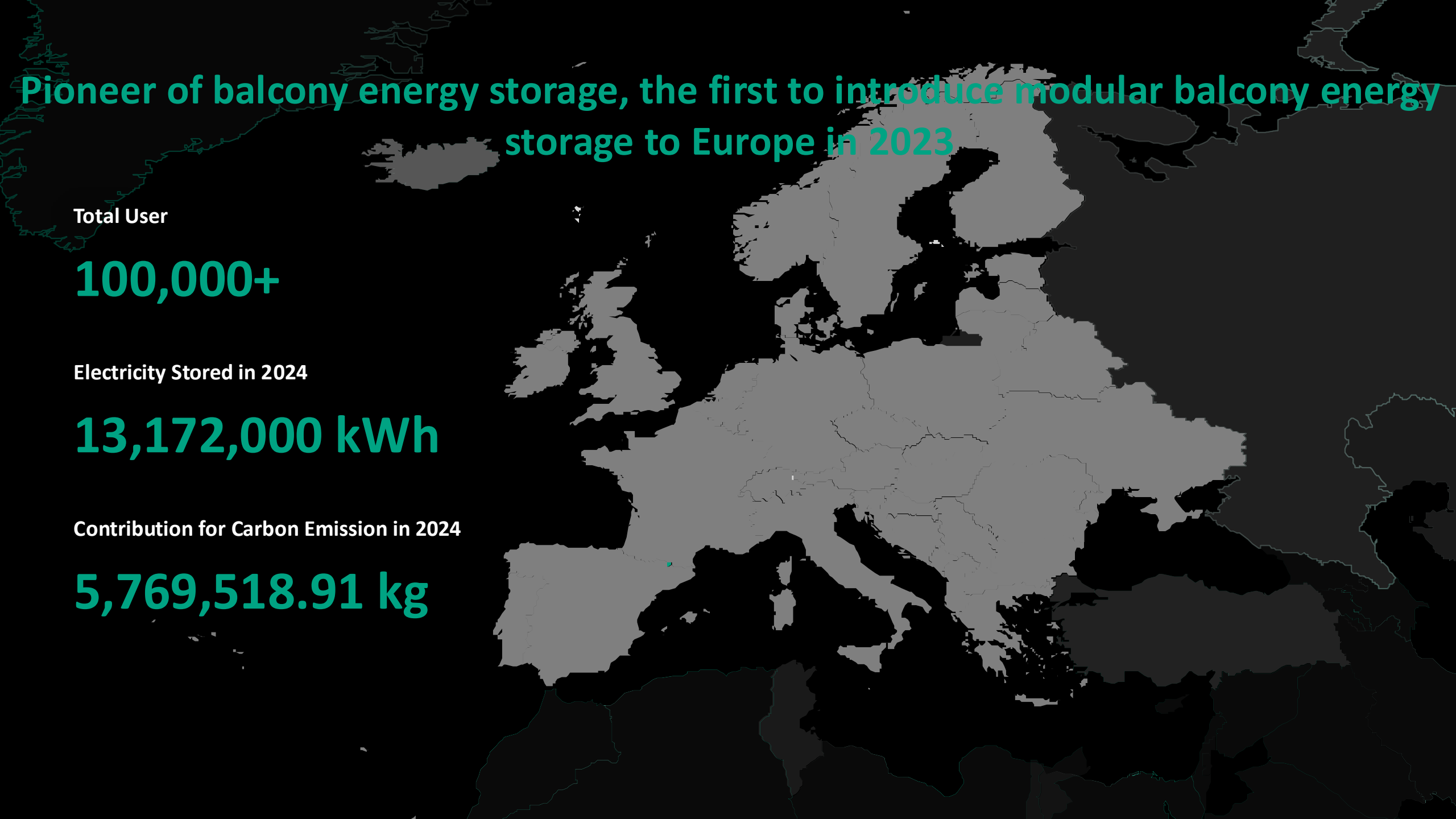
To deliver reliable and affordable clean energy for households worldwide by popularizing the latest EnergyTech.



Vision :

We envision being a Clean EnergyTech platform that sustains communities and families.





Pioneer of balcony energy storage, the first to introduce modular balcony energy storage to Europe in 2023

Total User

100,000+

Electricity Stored in 2024

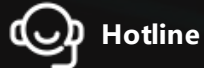
13,172,000 kWh

Contribution for Carbon Emission in 2024

5,769,518.91 kg

Zendure Global Services - Constant Innovation

Premium Customer Service



Zendure Workforce

50+

Global service agents ready to solve problems smoothly

24 Hours

Full-day and in real time support and service

600+

Daily service ticket solved

Zendure AI Support

70%

Queries and common issues resolved by AI tool with Zendure's knowledge base.

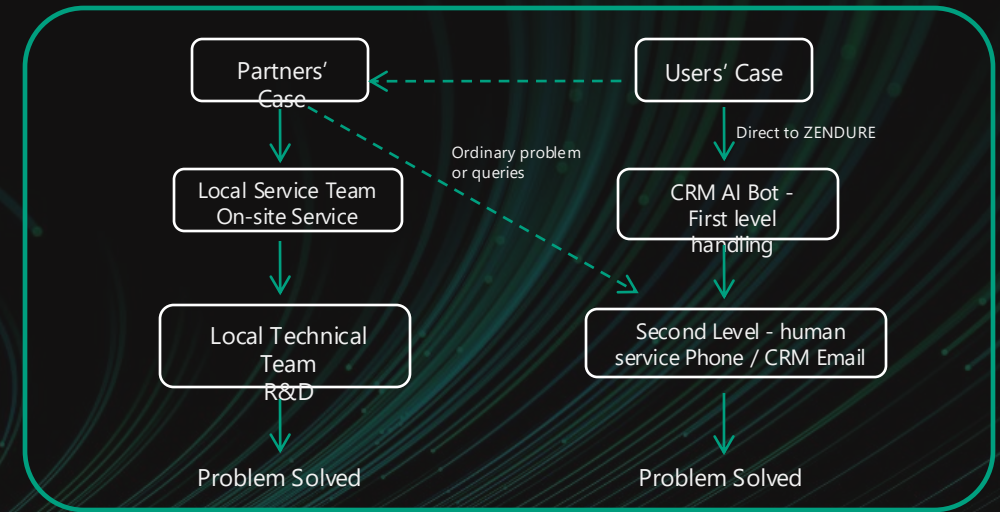
10 Languages

Supports multi-lingual service in email and AI bot, including USA, Germany, France.

1 min

Average AI response time.

ITR Service Process



Call Center

- Order Tracking
- Help with complaint & troubleshooting
- On-site field assistance & service
- Emergency response to any needs



Service Team

- Provide technical support & excellent services
- Help with RMA service from all channels
- Periodically offer the product trainings
- Shared Zendure Knowledge Base related to all



AI Training

- Provide training to strengthen AI bot
- Service & Product related knowledge base construction
- Help to improve user experience via history data



Technical Team Management

- Fastly respond to frontline personnel's feedback
- Help with troubleshooting and testing
- Effectively offer troubleshooting-steps & solutions



Repair & Logistics Warehouse

- Provide repair and shipment services
- Handle the returned units related to RMA
- Capability of shipping to mass of EU countries
- Good procedure of processing DG products

Zendure Plug-in Energy Storage Products Family



The World's First AI-integrated Plug-in Energy Storage Systems



SolarFlow 2400 AC

The First 2000W Plug-and-Play AC-Coupled Micro-Inverter Solar System

SolarFlow 2400 AC Solution



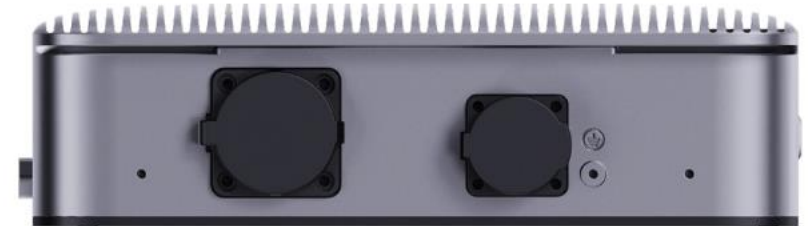
SolarFlow 2400 AC

- 2400 W Bidirectional AC Power
- 2400 W Off-grid Output

AB3000X

- LFP Battery
- 2.88 kWh Capacity
- 48V/60A
- Built-in Intelligent BMS
- Built-in Aerosol Fire Suppression System

Product Appearance - SolarFlow 2400 AC



Offgrid AC port Ongrid AC port

Available countries with on-grid certification: Germany, France, Switzerland, Netherlands, Belgium, ...More will be coming soon.

Certification completion date: April 2025

Launch time: April 2025

Product Spec

Name	SolarFlow 2400 AC
Model	ZDSF2400AC
On-Grid Terminal	
Nominal Input/Output Voltage	230V a.c.
Nominal Input/Output Frequency	50Hz
Max. Input/Output Power	2400W
Off-Grid Terminal	
Nominal Output Voltage	230V a.c.
Nominal Output Frequency	50Hz
Max. Output Power	2400W
Battery Charge/Discharge	
Max. Battery Charge/Discharge	2400W
General Information	
Power Factor	0.8(lagging)-0.8(leading)
Protective Class	I
Operating Temperature	-20°C~60°C
Enclosure	IP65 (The device does not maintain IP65 waterproof protection when the off-grid socket is in use (plugged in) or when the waterproof cover is not properly sealed.)
Wireless Type	Bluetooth, Wi-Fi

Modular stacking design

More easier to reach your ideal capacity

Zendure	2.88	5.76	...	17.28
Others	5.12	10.24	15.36	...



2.88kWh



5.76kWh



17.28kWh

Effortless expansion

Expandable up to 17.28kWh with 6 batteries

Built with scalability in mind, our solution easily adapts to future expansion needs, ensuring long-term value and flexibility.

Solution Recommendations and Cost-effectiveness

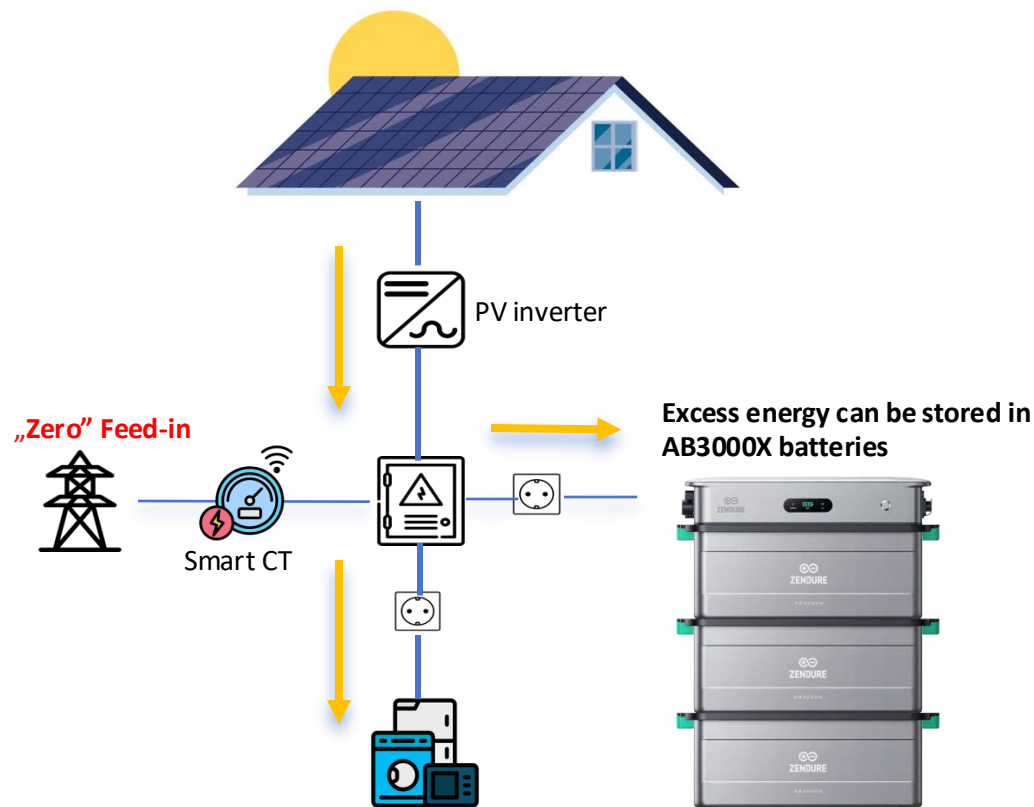
PV Power	2000-4000W	4000-6000W	6000-8000W
Annual electricity consumption	2000-4000kWh	4000-6000kWh	6000-8000kWh
Recommended combination	SolarFlow 2400 AC+AB3000X*2	(SolarFlow 2400 AC+AB3000X*2)*2	(SolarFlow 2400 AC+AB3000X*2)*3
Phase	One-phase	One-phase	Three-phase
Capacity	5.76kWh	11.52kWh	17.28kWh
Maximum AC Input	2400W	4800W	7200W
Maximum AC Output ¹	2400W	4800W	7200W
Recommended AC Output	800W	800W	800W
Energy Saved (daily) ²	≈5.2kWh	≈10.4kWh	≈15.6kWh

1. If the user wishes to discharge at a total power of more than 800W, please have a professional electrician install it on a separate circuit.

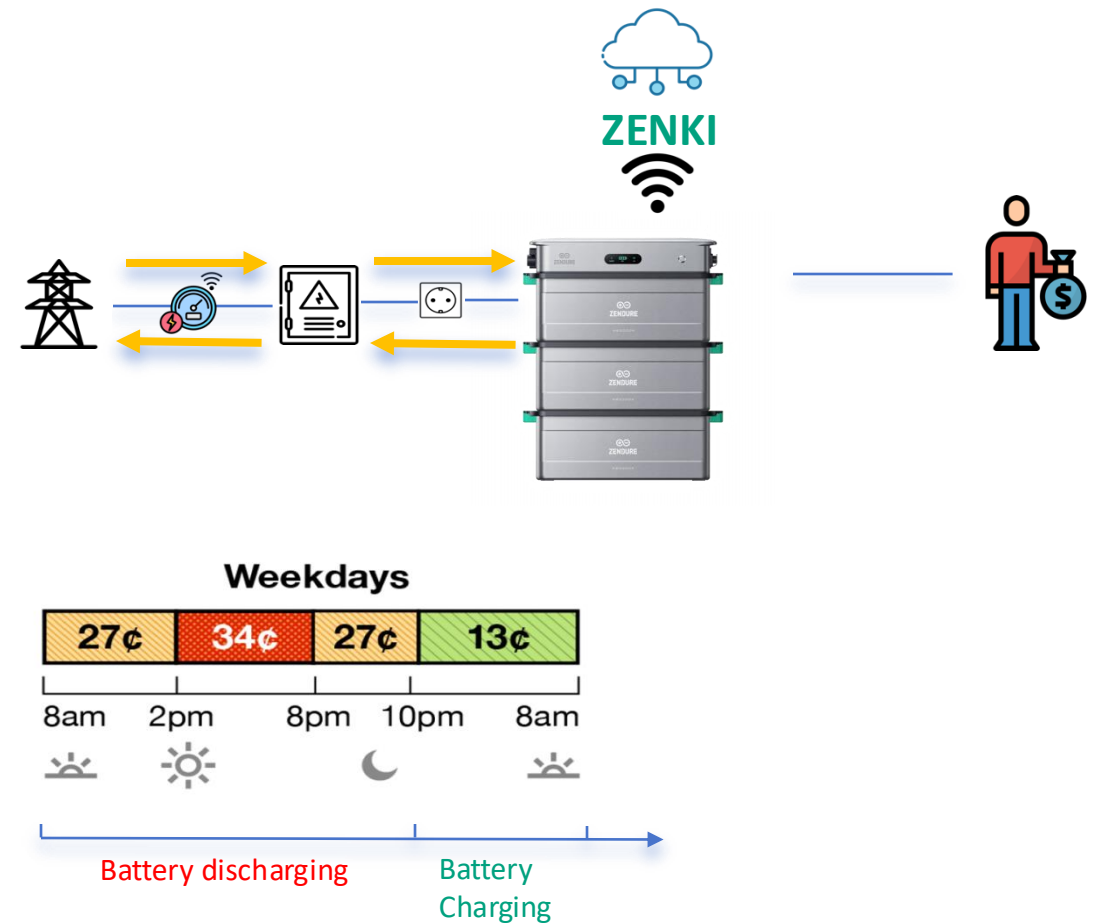
2. Minimum daily energy savings.

Target Audience

- Homeowners with existing rooftop solar systems, yet to integrate energy storage.

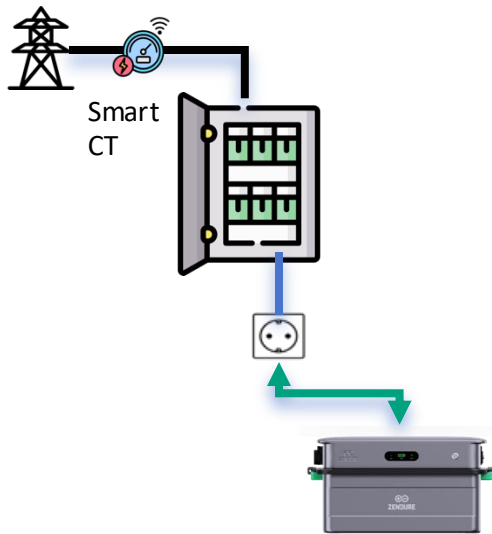


- Homeowners aiming to reduce electricity costs through Time-of-Use (TOU) plans

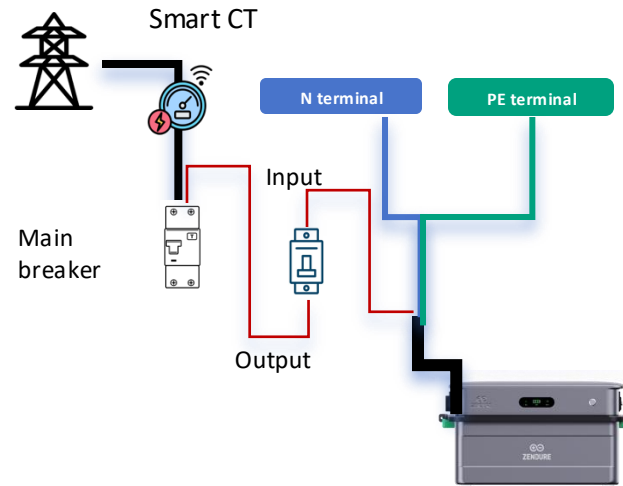


Most Cost-Effective Energy Storage Solution-Easy Installation

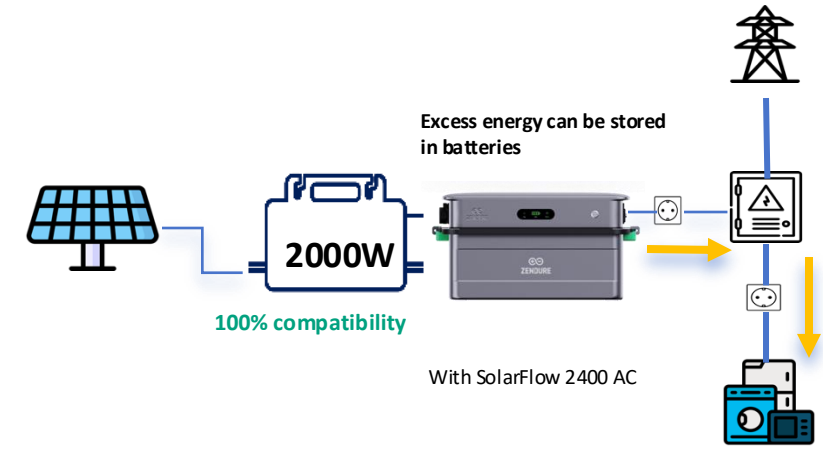
Easy Installation AC Coupling: Saves installation costs and is compatible with all inverters, ensuring seamless integration.



Plug & Play



Electrical Wiring



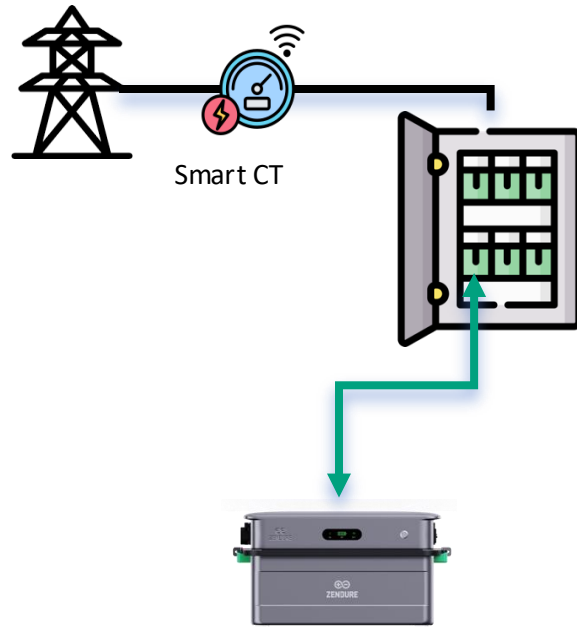
With Micro-inverter

Most Cost-Effective Energy Storage Solution-Easy Installation

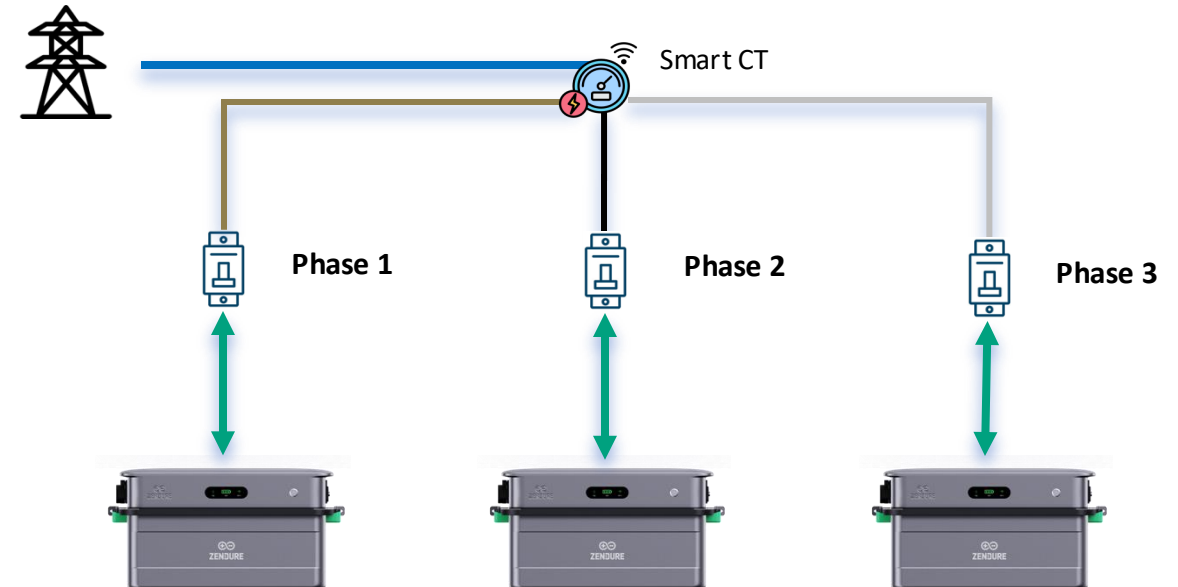
Single-phase household storage solution

VS

Three-phase household storage solution

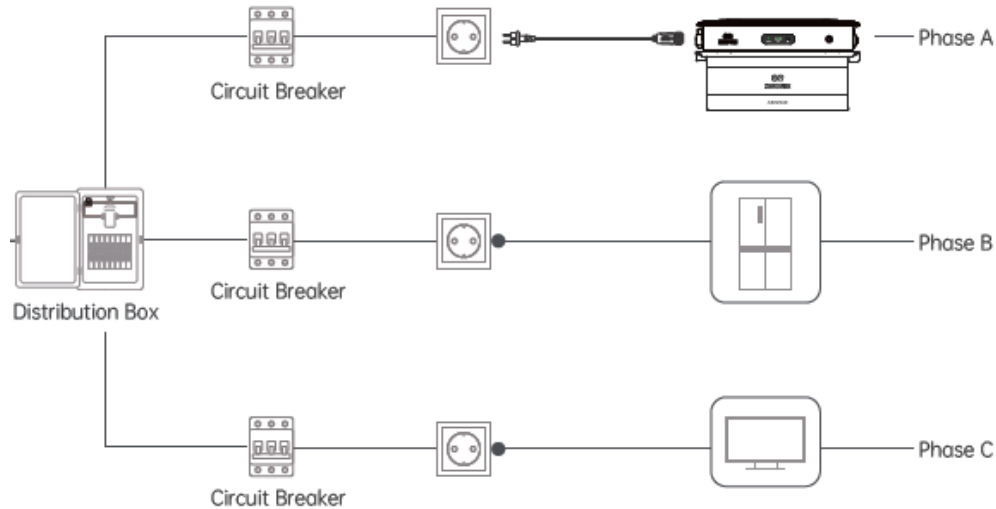


Discharge Power: **2400W Max**
 Charge Power: **2400W Max**
 Capacity Range: **2.88kWh to 17.28kWh**



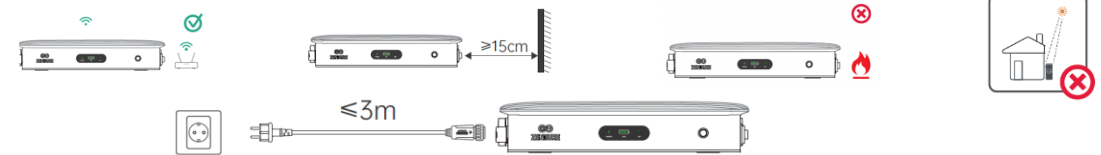
Discharge Power: **7200W Max**
 Recharge Power: **7200W Max**
 Capacity Range: **8.64kWh to 51.84kWh**

Most Cost-Effective Energy Storage Solution-Easy Installation



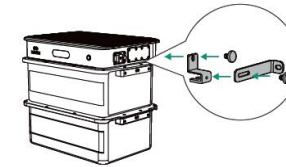
1

Choose a right place for SolarFlow 2400 AC + AB3000X



2

Connect to the AB3000X Battery and fix SolarFlow 2400 AC to the wall.



3

Connecting to the Grid via a Power Socket

1. Download and register on the Zendure App
2. After you choose the specific country in the APP, the device will have a default output power:
Germany/Belgium/Netherlands/Austria/Italy: 800W
France: 900W
Switzerland: 600W

4

Boosting Output up to 2400W (Peak) / Optional

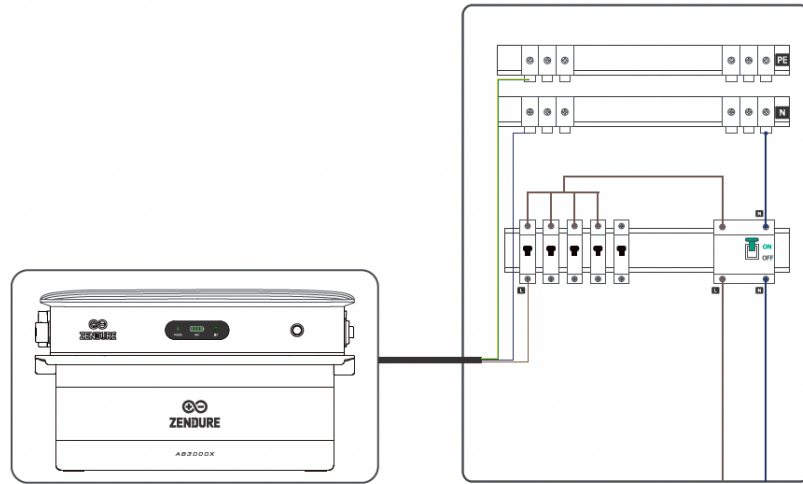
1. Confirm the device is connected to a dedicated circuit with no other devices by professional electrician.
2. Unlock higher output levels via Zendure app.



Most Cost-Effective Energy Storage Solution-Easy Installation



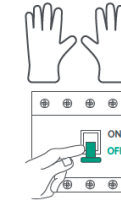
This installation must be performed by a certified electrician to avoid risks of electric shock, fire, or other hazards.



1

Pre-installation preparation

1. Put on Insulating gloves
2. Turn off all circuit protection switches
3. Cut off the plug of the AC cable



2

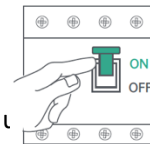
Connect the power cable to the electrical panel

1. Connect the live wire to an available circuit breaker.
2. Connect the neutral wire and ground wire to the neutral and ground bars in the household panel, respectively.

3

Power On

1. Check that all connections are safe and error-free before powering the device.
2. Turn on the main circuit breaker of your home electrical system.
3. Press and hold the button on the SolarFlow 2400 AC for 2 seconds to power on.



4

Initialization

1. Download and register on the Zendure App.
2. Set up the right output power that the household owner needed.
3. If the owner wants to boost the maximum output to 2400W, confirm the device is connected to a dedicated circuit with no other devices before activation.

The Most Cost-Effective Energy Storage Solution-Super efficiency



- ✓ 3rd Generation SiC Technology: Delivers 93% AC round-trip efficiency, maximizing energy utilization and cost savings.

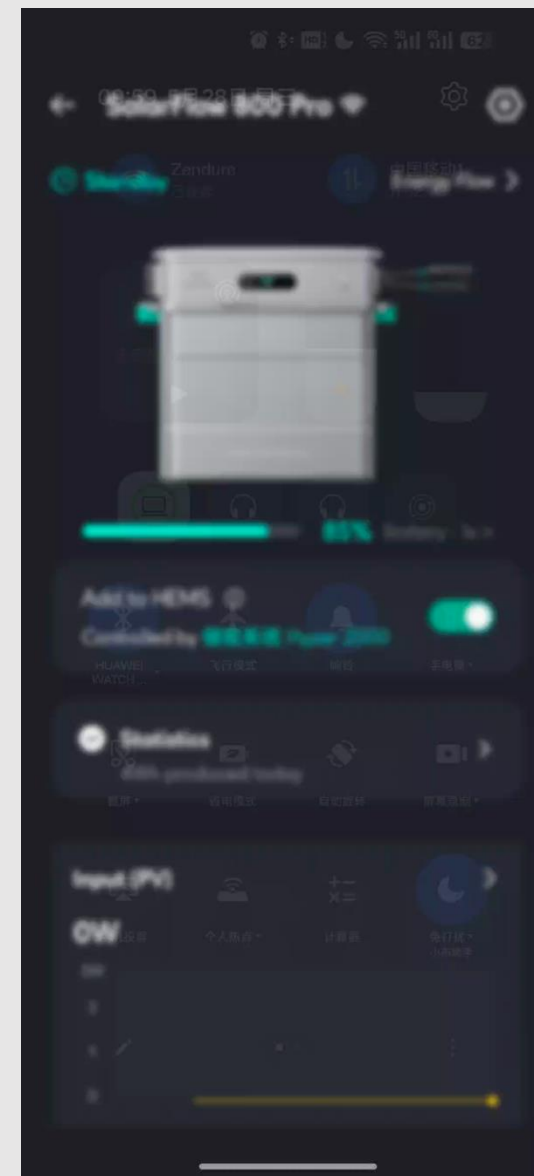
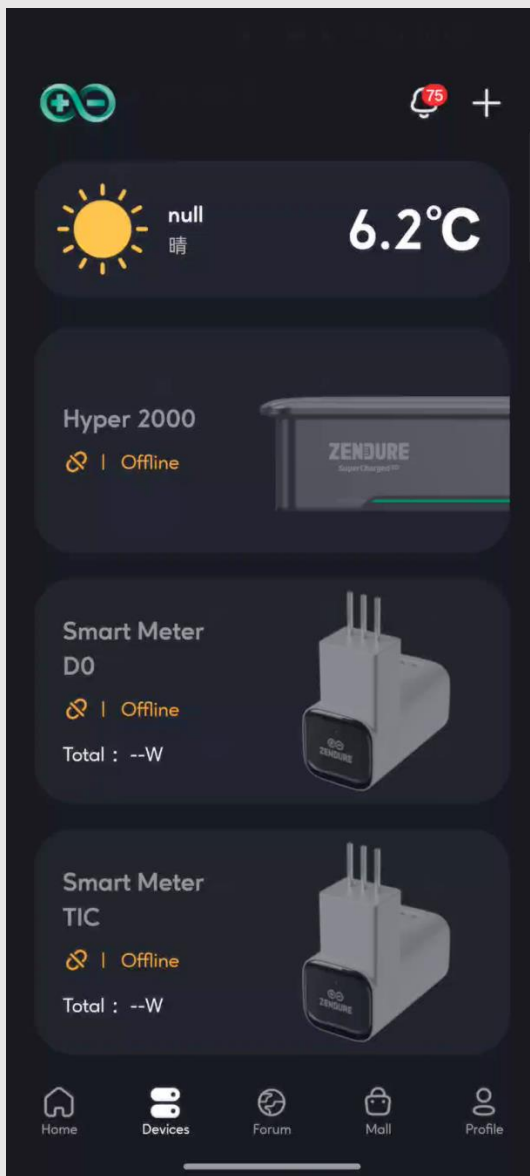
- ✓ The SolarFlow 2400 AC features 48V battery, reducing energy loss by 25% compared to a 16V battery system. Saving money on energy has never been so easy.



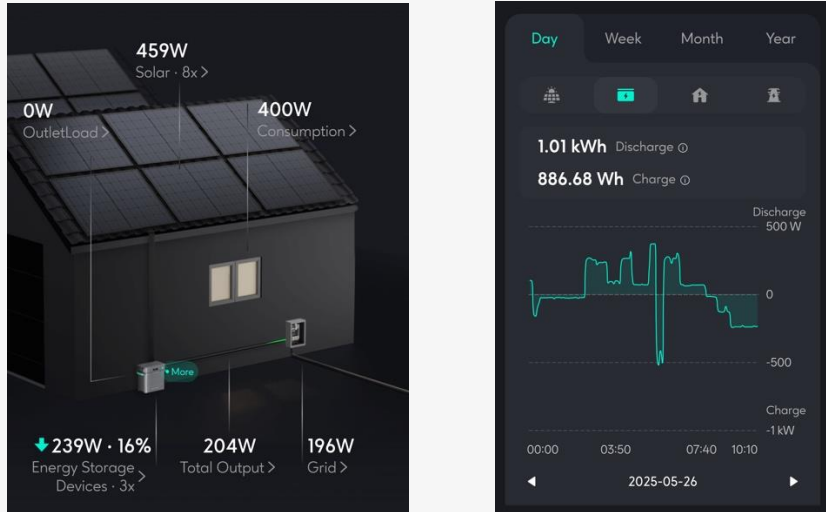
ZENDURE APP - Add device interface

Basic Interface

ZENDURE
SuperCharged



Zendure Home Energy Management System (HEMS)



Intelligent Energy Orchestration

- ✓ ▶ AI-powered analysis of usage patterns
- ✓ ▶ Real-time integration of weather forecasts, battery data & dynamic tariffs
- ✓ ▶ Continuous adaptive optimization

Europe's Largest Utility Network

- ✓ Real-time pricing from 700+ suppliers
- ✓ Automated Time-of-Use optimization
- ✓ Cross-market tariff intelligence

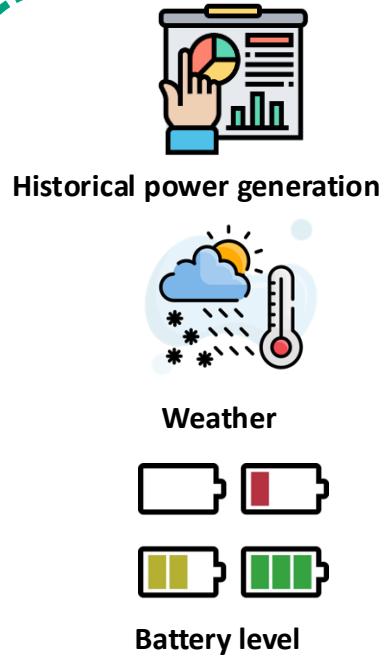
Military-Grade Performance

- ✓ <3s response time for load adjustments
- ✓ 1W precision control (>50W devices)
- ✓ Localized communication protocols
- ✓ 99.99% system stability

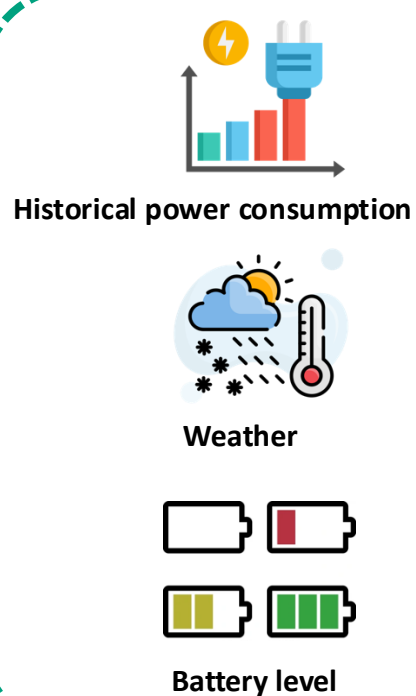
-up to 42% Monthly Energy Savings

Zendure Home Energy Management System (HEMS)- Architecture

Power Generation Prediction



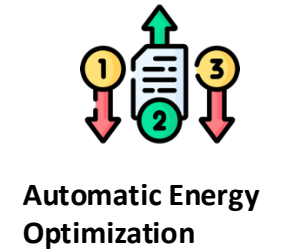
Energy Consumption Prediction



Real-time dynamic pricing data



Intelligent AI Energy Plan Recommendation

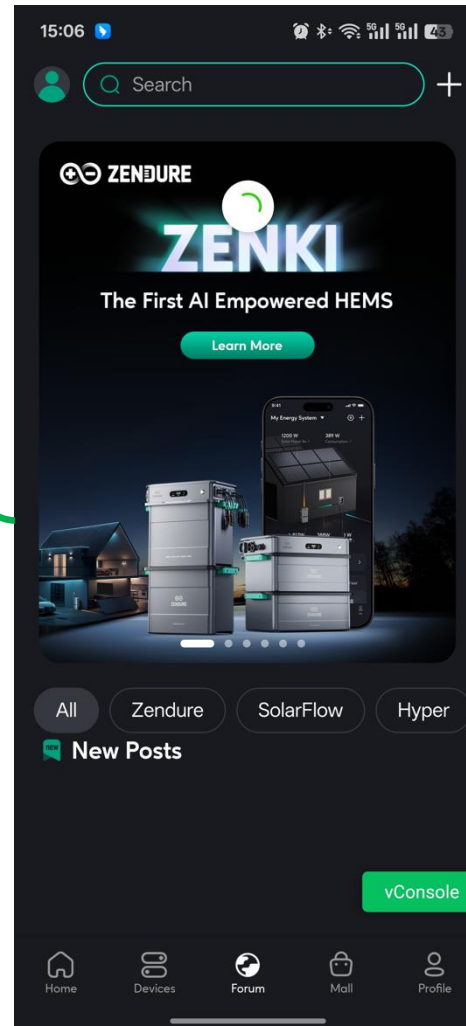


Zendure Home Energy Management System (HEMS)- Operation Mode

Zenki Mode (AI-powered)

For users with smart meters & dynamic pricing plans

- Fully automated energy scheduling
- Achieve 24/7 hassle-free savings



Auto Mode (Plug&Play)

For entry-level users with single ESS + basic monitoring

- Self-configuring system optimization
- Requires zero technical expertise

Expert Mode (Granular Control)

For professionals managing hybrid energy systems

- Smart CT Logic
- Outlet-Level Dispatch
- Base Load Management
- Price-Driven Optimization

Zendure Smart accessories-3 Phase Smart CT meter



Smart Meter 3CT

1. DIN Rail-Mounted 3-Phase Meter

Industrial-grade design compatible with standard electrical panels

2. Dual-Band Wireless

WLAN/Bluetooth® connectivity for smart home ecosystem integration

3. Whole-Home Energy Insight

Real-time tracking of electricity consumption

4. ESS Smart Coordination*

- Wireless communication optimizes energy dispatch with solar/storage systems
- Critical component for complete smart energy monitoring
- $\pm 0.5\%$ measurement accuracy for voltage/current
- Seamless interoperability with Zendure solar/storage products to maximize efficiency

Zendure Smart accessories-Smart Meter Reader



Smart Meter D0 (DE)
(Optical)



Bridge (LORA)



Smart Meter P1 (NL)
(RJ12)



Smart Meter TIC (FR)
(TIC)

1. Zero-Installation Design

Ready-to-use with WLAN/Bluetooth® dual-mode connectivity

2. Smart Energy Monitoring

Track real-time electricity consumption & optimize energy distribution via wireless ESS* integration

3. Reader-Bridge Coordination

Reader: Collects meter data via 868MHz long-range transmission (50m wall-penetrating capability)

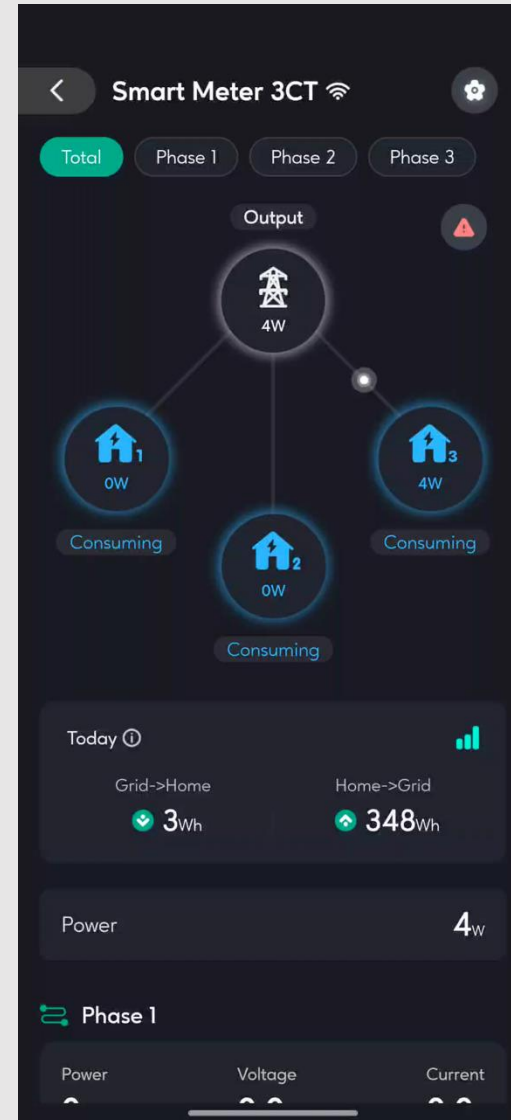
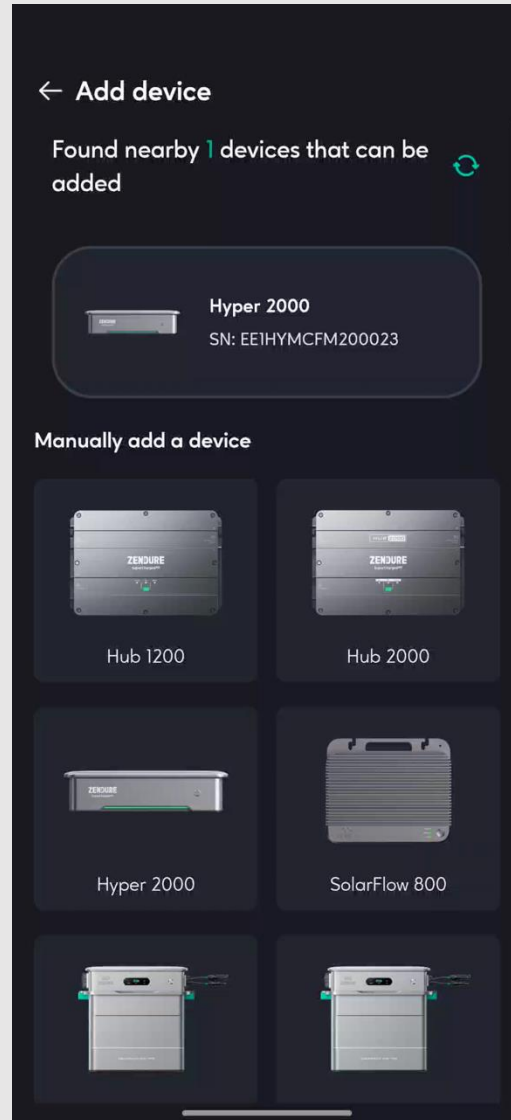
Bridge: Relays data to cloud via home router, ideal for meters in basements or utility rooms

4. Robust Deployment

Cable-free solution effortlessly handles challenging installation environments

ZENDURE APP - SMART CT interface

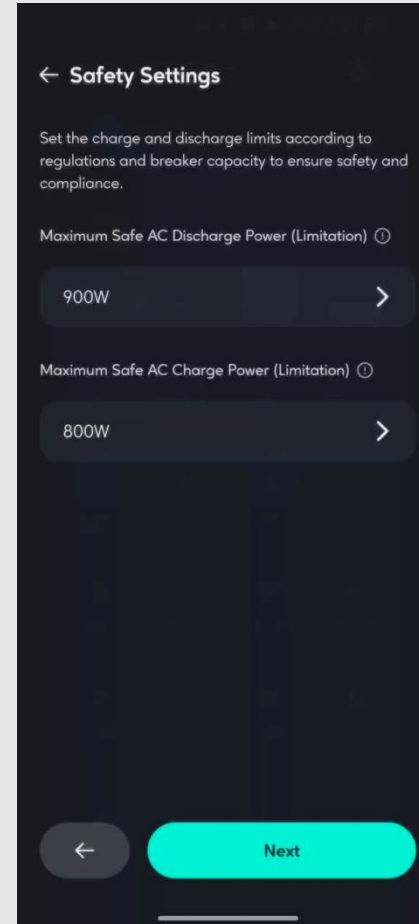
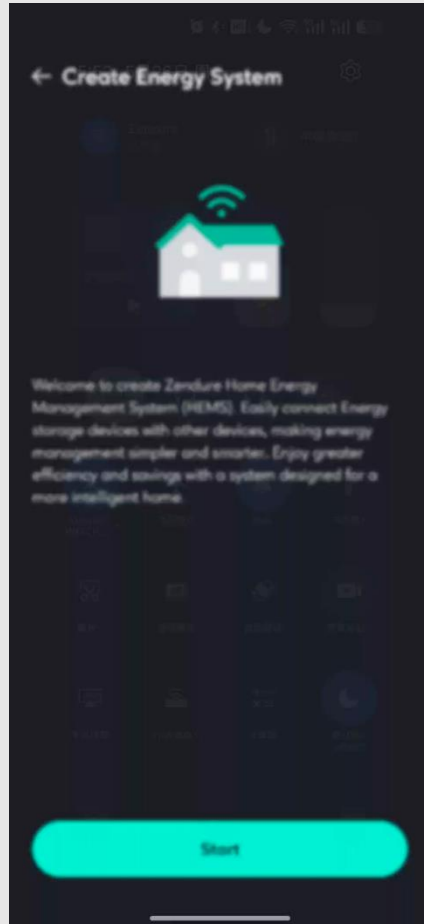
Basic Interface



ZENDURE APP - Exceed power limitation

System Creation Proces-Safety Settings

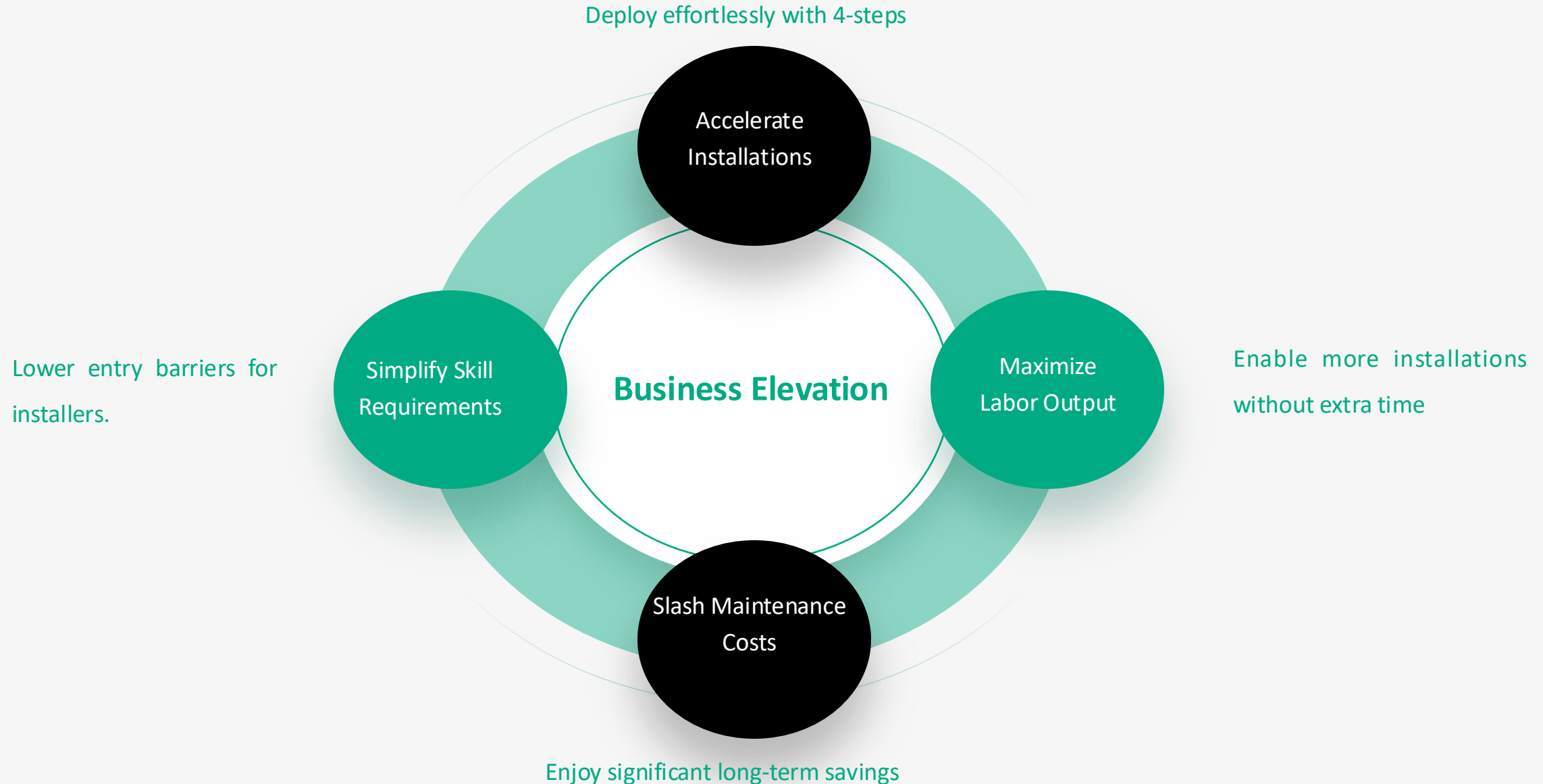
Exceeding the national safety power threshold, user signature confirmation is required. Following signature confirmation, the permissible power range for HEMS operation shall be 0–2400W.



Exceeding 2400 watts, users must provide a signed confirmation and upload installation verification images. Following submission for review, the status will display as “Under Review”.

If the grid connection standard is changed and the country has not conducted an audit, a new audit must be performed before it can be used.

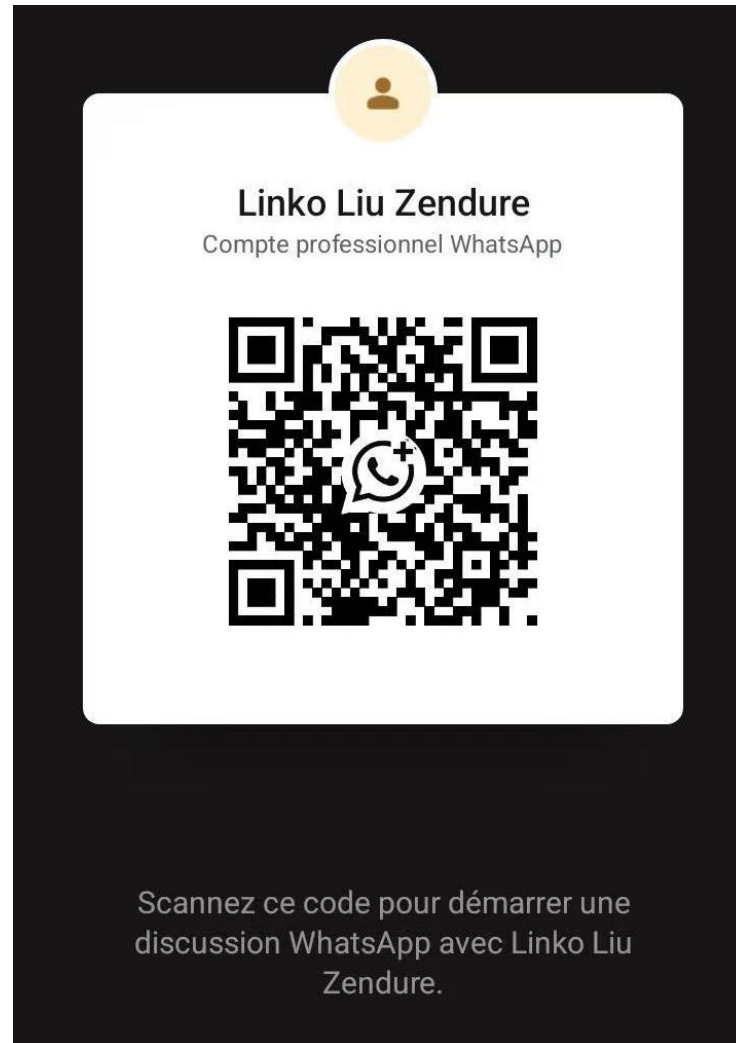
Elevate Your Business With SolarFlow 2400 AC Solution



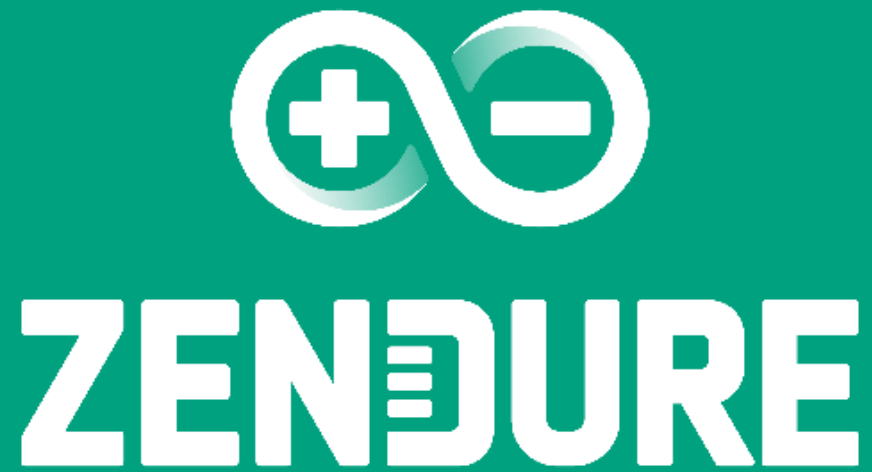
Q&A

Please feel free to ask any questions 😊

ZENDURE BELGIUM TECHNICAL SUPPORT CONTACT



Service available in English or Français



Thank You!

✉ Support : support@zendure.com

✉ PR & Influencer: pr@zendure.com

✉ Distributors: sales@zendure.com