



# SolarFlow 2400 Pro

**The Ultimate 2400W Bi-Directional AC, AI-Driven Balcony Solar Storage System**

# Scenarios



## ZEN+ Home

Experience the power of Zen+ Home, a smart energy management hub that puts you in control while driving sustainability and cost savings, empowering energy management, taking charge of your consumption via Zendure App. It will also help you to take full control of your home appliances anywhere and anytime, resulting in a more energy-conscious lifestyle.



## Zendure HEMS 2.0: The AI-Optimized Platform for a Unified Home Energy Ecosystem

HEMS 2.0 is an advanced Home Energy Management System providing intelligent, automated control over your entire home energy ecosystem. Key features include:

- **Unified Monitoring:** A single, comprehensive view of energy generation, consumption, and storage.
- **Intelligent Dispatch:** Autonomously decides the optimal energy source—whether solar, battery, or the grid.
- **Automated Savings:** Actively reduces energy costs by adapting to solar production, dynamic tariffs, and user habits.
- **Multi-Device Collaboration:** Ensures seamless synergy between all connected devices.

Built on a single, powerful framework, HEMS 2.0 supports the entire Zendure ecosystem, including the Zendure App with ZENKI™ 2.0, the ZenPro App for installers, and an Open API for developers.



## ZENKI ™ Smarter Energy Decisions, Better Savings

ZENKI™ 2.0 is an advanced AI Agent engineered specifically for home energy management, marking a pivotal evolution from simple smart usage to a comprehensive, intelligent service.

The system's core strength lies in its predictive capability, providing 24-hour forecasting for both energy generation and household consumption. This foresight enables the execution of truly intelligent charge-and-discharge schedules.

Ultimately, ZENKI™ 2.0 dramatically optimizes a home's overall energy use, delivering a seamless experience while achieving the most favorable cost structure and maximizing savings for the household.

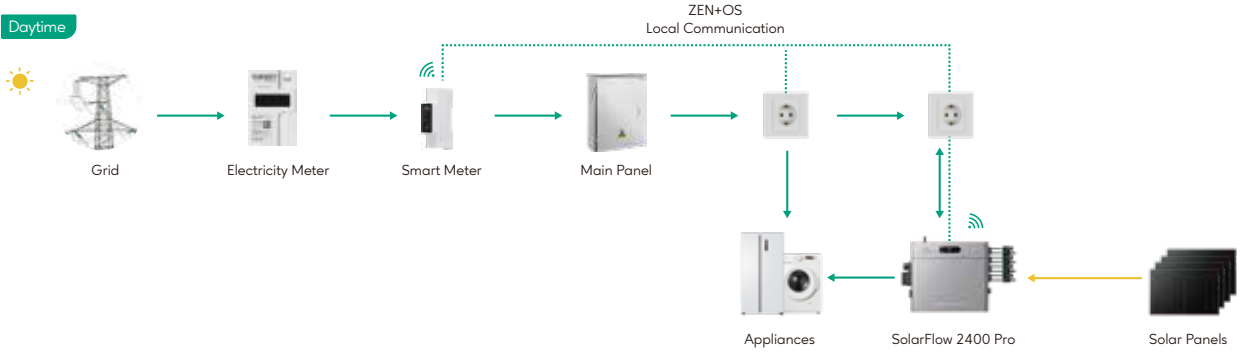
## ZenWave™ ™ Dynamic Tariff Service

ZenWave™ is Zendure's dynamic electricity tariff service launched in Germany. With Zendure's products and services, users can achieve electricity usage that is more cost-saving, more effortless, and more sustainable. ZenWave™ makes electricity usage cheaper and greener. When combined with ZENKI™, electricity usage becomes even simpler.

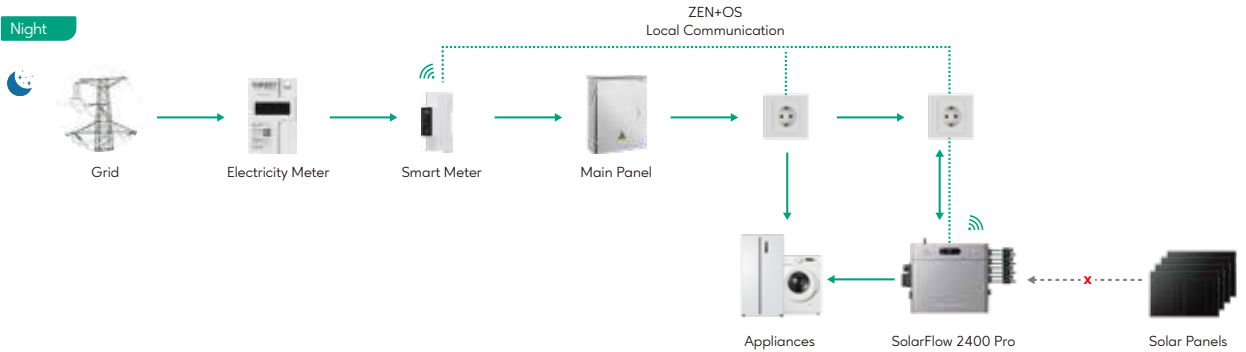
\*Available in Germany now.

# Higher Self-Consumption

Daytime



Night



Store surplus solar during the day and use it at night. Compared to standard micro-inverter export, integrated storage can lift self-consumption by 60%+, maximizing the value of your solar energy.

# Maximum Efficiency, Maximum Savings

**-5,612 KG CO<sub>2</sub>**  
Reduce CO<sub>2</sub> emissions by up to 5,612 kg per year

**+€1,519**  
Up to €1,591 saved on electricity costs per year

**3.01 Years**  
Amortised within 3.01 years under ideal conditions

SolarFlow 2400 Pro & Batteries & PV Panels

**+€1,519**

PV Panels

**+€440**

# SolarFlow 2400 Pro



## PV Input

Max. PV Input Voltage	55 V d.c.
Max. PV Input Current	4*18 A d.c.
Max. PV Input Isc	4*22.5 A d.c.
Max. PV Input Power	3000 W (4*750 W)
Operating Voltage Range	14-55 V d.c.

## On-grid Terminal

Nominal Input/Output Voltage	230 V a.c.
Nominal Input/Output Frequency	50 Hz
Nominal AC Output Power	800 W (default) / 2400 W (*premium)
Nominal AC Output Current	3.5 A a.c. (default) / 10.4 A a.c. (*premium)
Max. AC Input Power	3200 W
Max. AC Input Current	13.9 A a.c.

## Off-grid Terminal

Nominal Input/Output Voltage	230 V a.c.
Nominal Input/Output Frequency	50 Hz
Max. AC Output Power	3200 VA
Max. AC Output Current	13.9 A a.c.
Max. AC Input Power	2400 VA
Max. AC Input Current	10.4 A a.c.

## SolarFlow 2400 Pro Battery (Port)

Battery Type	LiFePO <sub>4</sub>
Battery Rated Energy	2400 Wh
Battery Rated Capacity	50 Ah
Battery Rated Voltage	48 V d.c.
Max. Charge/Discharge Power	2400 W
Max. Charge/Discharge Current	50 A d.c.
Charge Temperature	0° C to 55° C
Discharge Temperature	-20° C to 55° C
Charge/Discharge Voltage Range	37.5 V d.c. to 54.75 V d.c.
Expandable Add-on Battery AB3000L Quantity	5
Maximum Expandable Capacity	2,880Wh x 5=14,400Wh
Total Maximum Capacity	2,400Wh(built-in) + 14,400Wh = 16,800Wh

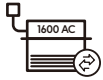
## General Information

Protection Class	Class I
PowerFactor	0.8(lagging)-0.8(leading)
Operating Temperature	-20° C to 55° C
Type of Enclosure	IP65
Dimension	326 x 294 x 251 mm
Weight	27.8 kg
Bluetooth	Bluetooth 5.0
	Frequency: 2402-2480 MHz
	Maximum Transmit: Power20.0 dBm
Wi-Fi	Wi-Fi 4 802.11 b/n/g
	Frequency: 2412-2472 MHz
	Maximum Transmit Power: 20.0 dBm



## Add-on Battery AB3000L

Battery Rated Voltage	48V d.c.
Battery Life Cycle	6,000 Cycles
Rated Capacity	60Ah/2880Wh
Rechargeable Li-Ion Battery	LiFePO <sub>4</sub>
Maximum Input/Output Power*	One AB3000L Battery: 1,680W Max Two or More Batteries: 1,920W Max
Compatibility	SolarFlow 800 Series/1600 AC+/2400 AC+/2400 Pro AB1000 Series/AB2000 Series/AB3000L Battery



## Most Appliances Covered, Least Grid Needed

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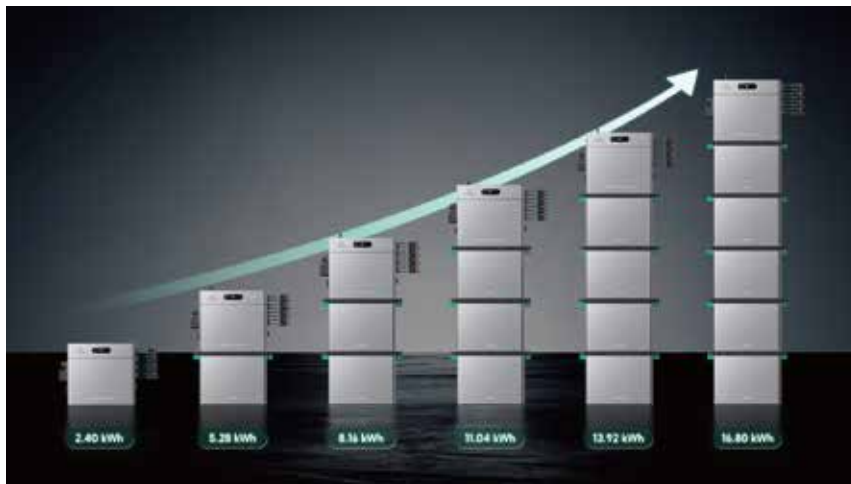


From everyday essentials to higher-power kitchen loads, 2400W bi-directional AC helps run more of your home on stored solar energy. During peak-price hours, it discharges to reduce costly grid draw.



## Flexible Energy, Ready to Grow

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Start at 2.4 kWh and effortlessly expand up to 16.8 kWh with stackable And-on batteries, Plug & Play design for seamless, scalable energy whenever you need it.

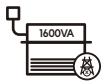


## More Energy, Less Cost

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- Early Generation: Generate earlier in low light: 14V low-voltage start captures sunlight earlier in low-light, cloudy, or dawn/dusk conditions—up to 12.5% more energy.
- More solar in, More flexibility: 4 MPPT deliver up to 3000W DC, expandable to 4800W total via AC coupling, maximizing solar capture and boosting self-consumption.



## Stable Off-Grid Backup Output — Power When It Matters

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2400VA off-grid output keeps critical appliances running during outages, while up to 3200W in grid-connected mode covers higher power needs.



## Seamlessly Access TOU Anytime, Anywhere

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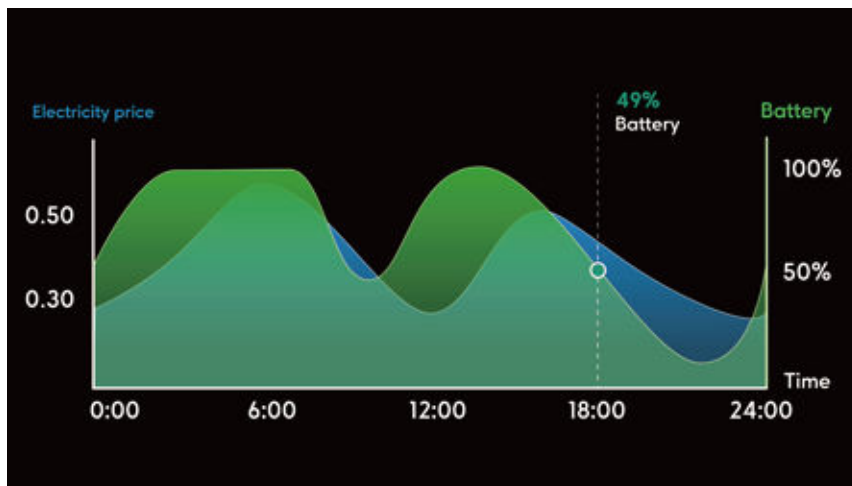


Easily connect to 840+ European energy suppliers across 32 markets. The HEMS optimizes your energy use, taking full advantage of dynamic tariffs to boost savings.



## Charge low, discharge high

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Automatically charge during low-price (even negative-price) periods and discharge during peaks to reduce expensive imports.



## ZenGuard™: Multi-Layer Safety Protection

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- Predictive Protection: Dual BMS architecture (built-in independent BMS + cloud BMS) detects risks early and prevents potential issues.
- Active Maintenance: Intelligent self-maintenance continuously monitors battery health for long-term reliability.
- Last-Line Defense: Integrated condensed aerosol fire-extinguishing system provides ultimate protection in extreme situations.

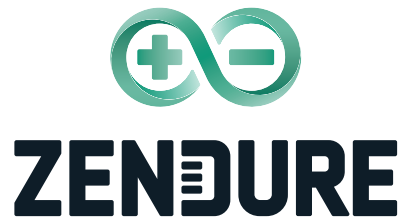


## Seamless Compatibility, Smarter Energy

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- Eco-Optimized Scheduling: Coordinate heat pumps and EV charging to maximize solar use, reduce costs, and cut your carbon footprint.
- Smart Home Integration: Supports MQTT and platforms like Home Assistant & Homey for effortless automation and full control.



## The Global Pioneer of Plug-in HEMS

Founded in 2017, Zendure is one of the fastest-growing EnergyTech start-ups located in the technology hubs of Silicon Valley, USA, and the Greater Bay Area, China, Japan, and Germany.

Our purpose is to accelerate a sustainable future.

Our mission is to deliver reliable and affordable clean energy for households worldwide by popularizing the latest EnergyTech.

 German site: <https://zendure.de>

 French site: <https://zendure.fr>

 Netherlands site: <https://zendure.nl>

 European site: <https://eu.zendure.com>

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