



**ZENURE**



# SolarFlow 1600 AC+

**Innovative 1600W AC-Coupled, Retrofit Power Storage for Every Rooftop**

# 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.

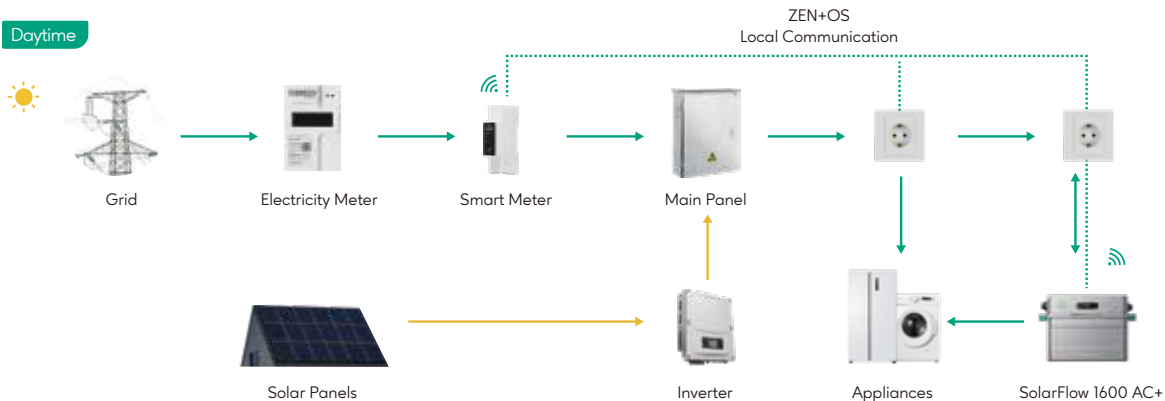
## **ZenWave** ™ **Dynamic Tariff Service**

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.

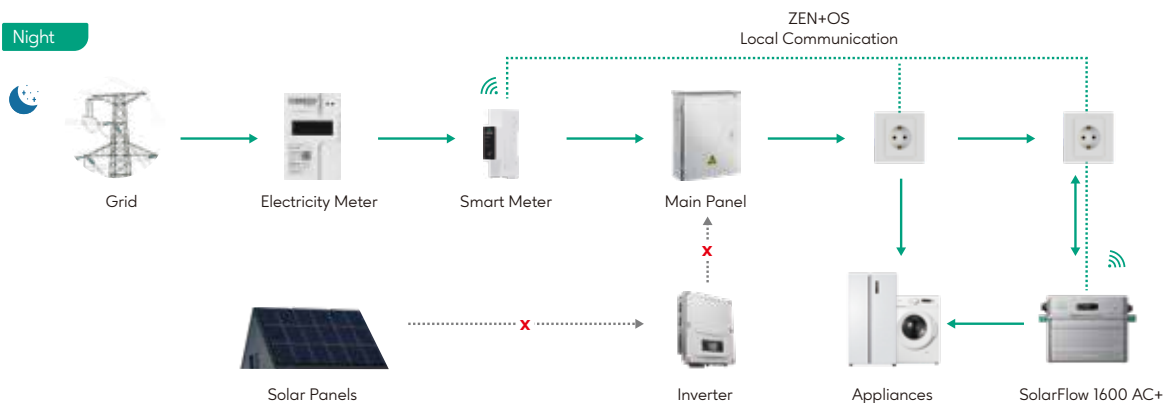
\*Available in Germany now.

## Higher Self-Consumption

Daytime



Night



Store surplus solar in the daytime and use it at night. Compared to standard micro-inverter export, integrated storage can boost self-consumption significantly ( $\geq +60\%$ ), maximizing the value of your green energy.

## Maximum Efficiency, Maximum Savings

**-3,864 KG CO<sub>2</sub>**

Reduce CO<sub>2</sub> emissions by up to  
3,864 kg per year

**+€1,156**

Up to €1,156 saved on electricity  
costs per year

**3.21 Years**

Amortised within 3.21 years  
under ideal conditions

SolarFlow 1600 AC+ & Batteries

**+€1,156**

PV Panels

**+€440**

# SolarFlow 1600 AC+



## AC Parameters (On-Grid)

Parameter	Single Device	With Additional Batteries
Max. AC Input Power	1400 W	1600 W
Nominal AC Output Power	800 W (default) / 1400 W (*premium)	800 W (default) / 1600 W (*premium)
Max. AC Input Current	6.1 A a.c.	7.0 A a.c.
Nominal AC Output Current	3.5 A a.c. (default) / 6.1 A a.c. (*premium)	3.5 A a.c. (default) / 7.0 A a.c. (*premium)
AC Nominal Input/Output Voltage/Frequency	230 V a.c., 50 Hz	230 V a.c., 50 Hz
Power Factor	0.8(lagging)-0.8(leading)	0.8(lagging)-0.8(leading)

## AC Parameters (Off-Grid)

Parameter	Single Device	With Additional Batteries
Max. AC Input Power	1400 VA	1600 VA
Max. AC Output Power	1400 VA	1600 VA (With Additional Battery)2200 W (With Grid-assisted)
Max. AC Input/Output Current	6.1 A a.c.	7.0 A a.c.
AC Nominal Input/Output Voltage/Frequency	230 V a.c., 50 Hz	230 V a.c., 50 Hz
Power Factor	0.8(lagging)-0.8(leading)	0.8(lagging)-0.8(leading)

## Battery Information

Battery Type	LiFePO <sub>4</sub>
Battery Rated Energy	1920 Wh
Battery Rated Capacity	40 Ah
Battery Rated Voltage	48 V d.c.
Max. Charge/Discharge Power (Single Device)	1400 W
Max. Charge/Discharge Current	30 A d.c.
Charge Temperature	0° C to 55° C
Discharge Temperature	-20° C to 60° C
Expandable Add-on Battery AB2000L Quantity	5
Maximum Expandable Capacity	1,920Whx5=9,600Wh
Total Maximum Capacity	1,920Wh (built-in) + 9,600Wh = 11,520Wh

\*Enabling this function must comply with local regulations and must be performed by professional technicians!

## Wireless Information

Bluetooth	Protocol: Bluetooth 5.0 Frequency: 2402-2480MHz Maximum Transmit Power: 20.0 dBm
Wi-Fi	Protocol: 802.11 b/g/n Frequency: 2412-2472MHz Maximum Transmit Power: 20.0 dBm

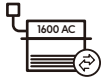
## General Information

Protection Class I	I
Recommended Temperature Range	-20° C to 55° C
Ingress Protection	IP65



## Add-on Battery AB2000L

Battery Rated Voltage	48V d.c.
Battery Life Cycle	6,000 Cycles
Rated Capacity	40Ah/1920Wh
Rechargeable Li-Ion Battery	LiFePO <sub>4</sub>
Maximum Input/Output Power*	One AB2000L Battery: 1,680W Max Two or More Batteries: 1,920W Max
Compatibility	Hub1200, Hub2000, Ace 1500, Hyper 2000, SolarFlow 800 Series, SolarFlow1600 AC+, SolarFlow2400 AC+, SolarFlow2400 Pro AB1000 Series/AB2000 Series/AB3000L Battery



## Most Appliances Covered, Least Grid Needed

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From essentials to high-power kitchen appliances, 1600W bi-directional AC helps more loads run on your stored solar energy. During peak-price hours, the system intelligently discharges to reduce expensive grid purchases.



## Flexible Energy, Ready to Grow

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Start at 1.9 kWh and effortlessly expand up to 11.52 kWh with stackable And-on batteries, Plug & Play design for seamless, scalable energy whenever you need it.



## Stable Connection, Smarter Control

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Built-in RJ45 port enables reliable wired communication with smart current monitoring devices (Zendure 3CT-S / ICT-S), ensuring stable, continuous data transmission for precise energy management.



## Ultimate Compatibility, Simple Upgrade

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SolarFlow 1600 AC+ is engineered to integrate seamlessly with existing rooftop PV inverters, enabling a fast and straightforward upgrade to energy storage — delivering smarter energy without system changes or replacements.



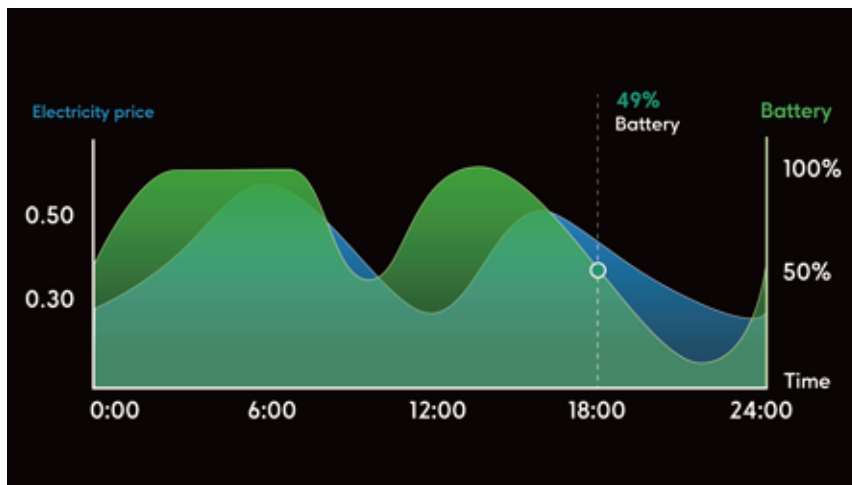
## Seamlessly Access TOU Anytime, Anywhere



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



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.



# ZENDURE

## 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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