



# SolarFlow 800 Pro

**Empowering Your Home with Smart, Sustainable Energy**

The World's First AI-integrated All-In-One Balcony Energy Storage System

# SolarFlow 800 Pro



## PV Input

Max. PV Input Voltage	55V d.c.
Max. PV Input Current	18A d.c.
Max. PV Input Isc	22.5A d.c.
Max. PV Input Power	2640W(4*660W)
Operating Voltage Range	14-55V d.c.

## AC Parameter

Max. AC Continuous Output Power (on-grid)	800W
Max. AC Continuous Output Current (on-grid)	3.5A a.c.
Max. AC Continuous Output Power (off-grid)	1000VA
Max. AC Continuous Output Current (off-grid)	4.35A a.c.
Max. AC Continuous Input Power	1000W
Max. AC Continuous Input Current	4.35A a.c.
AC Input/Output Voltage/Frequency	230V a.c., 50Hz
Power Factor	0.8(lagging)-0.8(leading)

## SolarFlow 800 Pro Battery (Port)

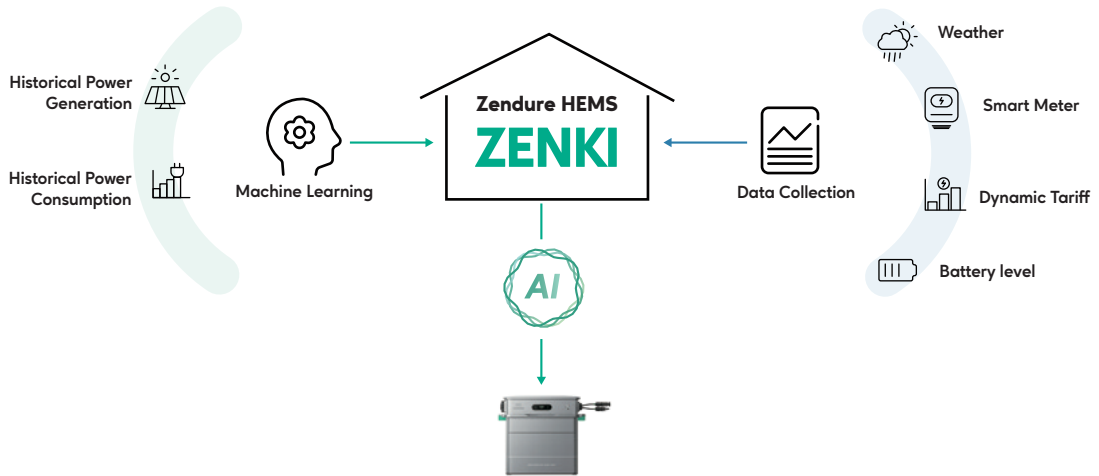
Battery Type	LiFePO <sub>4</sub>
Battery Rated Energy	1920Wh
Battery Rated Voltage	48V d.c.
Charge/Discharge Power (Without Extra Battery)	1440W
Charge/Discharge Current (Without Extra Battery)	30A d.c.
Charge Temperature	0° C to 55°C
Discharge Temperature	-20° C to 55°C
Charge/Discharge Voltage Range	37.5V d.c. to 54.75V d.c.
Max. Charge/Discharge Power (With Extra Battery)	2000W
Max. Charge/Discharge Current (With Extra Battery)	40A d.c.

## General Information

Protection Class	Class I
Recommended Temperature Range	-20° C to 55° C
Type of Enclosure	IP65
Bluetooth	Bluetooth 5.0 Frequency 2402-2480MHz Maximum Transmit Power 20.0 dBm
Wi-Fi	Wi-Fi 4 (802.11b/n/g) Frequency: 2412-2472MHz Maximum Transmit Power 20.0 dBm
Dimensions	338.6 × 226 × 358 mm
Weight	25.9kg
Expandable Battery Quantity	5

# ZENKI: Harness Algorithmic Intelligence for Optimal Energy Orchestration

ZENKI is the core AI technology module powering the HEMS Energy Management System. This intelligent platform predicts, schedules, and optimizes energy flows to maximize clean energy utilization, reduce costs, and enhance management convenience.



- AI algorithms analyze historical data, weather forecasts, and user behavior to deliver high-precision energy forecasting, enabling proactive resource planning.
- Advanced algorithms optimize operations in complex energy environments, maintaining perfect balance between production, storage, and consumption through real-time adjustments.
- Our intuitive dashboard simplifies energy management complexity, providing clear visualizations, automation capabilities, and granular control options.
- ZENKI prioritizes renewable energy utilization through smart load shifting and energy arbitrage, supporting low-carbon lifestyles while reducing grid dependence.

## Zendure App





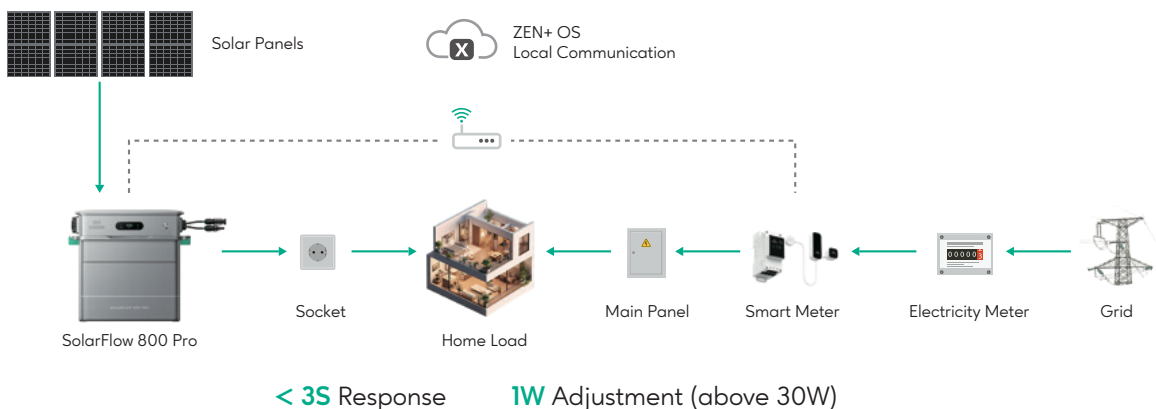
## Seamlessly Access TOU Anytime, Anywhere



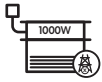
Easily connect to 700+ European energy suppliers across 32 markets. The HEMS optimizes your energy use, taking full advantage of dynamic tariffs to boost savings.



## Enjoy ZEN+ OS by The HEMS, Take Control of Your Energy



Zen+ OS, integrated into SolarFlow 800 Pro and various smart devices, empowers you to take full control of your energy. Experience instant responsiveness, unwavering reliability even without internet, and precise energy management that minimizes waste.



## Blackout-Proof – Grid-Independent Power



Secure storage keeps critical devices powered Max. 1000W output via AC port in off-grid mode.



## Get more out of every charge and discharge



The SolarFlow 800 Pro system guarantees smooth, balanced charging and discharging, even with uneven battery levels. Say goodbye to energy loss and hello to superior efficiency and optimized performance.



## Unlock More Energy, Power Your Home Longer



SolarFlow 800 Pro, featuring a 2640 MPPT, starts generating power at just 14V, compared to the conventional 18V, capturing 10-20% more energy from dawn to dusk. Power your home from early dawn to fading dusk, even on cloudy mornings and dim afternoons.



## Cut Energy Loss, Boost Efficiency

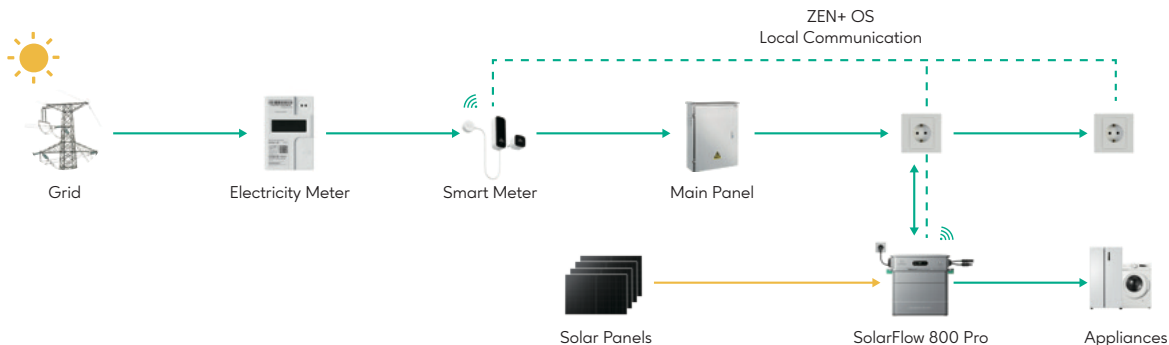


- The SolarFlow 800 Pro features an 48V battery, reducing energy loss by 25% compared to a 16V battery system. With its special advanced DC-coupled architecture, SolarFlow 800 Pro improves energy efficiency up to 96%\*. Saving money on energy has never been easier.
- GanZen's advanced Gallium Nitride (GaN) technology boosts energy conversion efficiency, delivering more power with less waste.

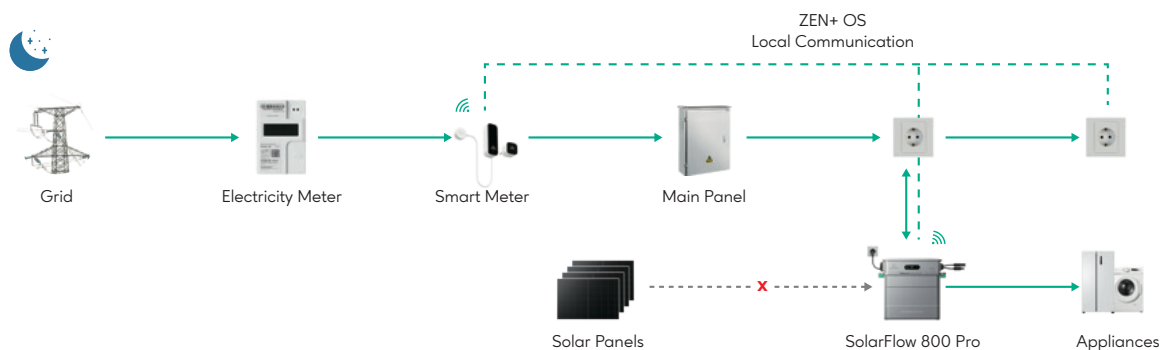
\*Data is based on Max PV-to-battery conversion efficiency measured at Maximum Power Point (MPP) in Zendure labs. Actual efficiency varies with installation angles, irradiance levels, and other variables.

# Introducing the SolarFlow 800 Pro System

## Daytime



## Night



Discover the performance and convenience of intelligent energy management. During the day, SolarFlow 800 Pro powers your home with solar energy and stores excess in the battery. In the evening, the battery supplies power to your home. This efficient energy management reduces your reliance on the grid and saves your money.

## Diverse ways to optimize your savings



**880€** /Annual savings

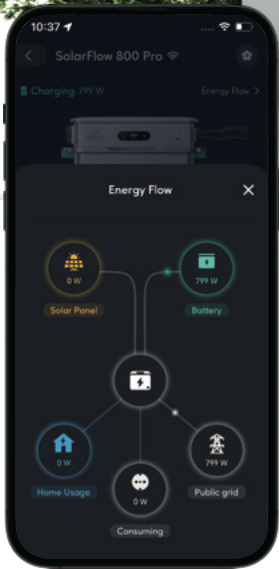
SolarFlow 800 Pro + 2000W Solar Panel + 1 x AB2000X + 1 x Smart Meter/CT  
(Self-Consumption Rate: 98%)



**1250€** /Annual savings

Intelligent AI Energy Management with TOU:  
SolarFlow 800 Pro + 2000W Solar Panel + 1 x AB2000X+1 x Smart Meter/CT  
(Self-Consumption Rate: 98%)

# 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.

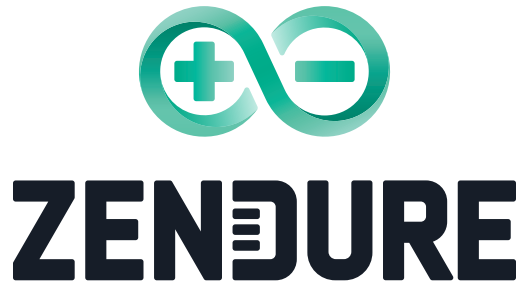


# SolarFlow 800 Pro

## Empowering Your Home with Smart, Sustainable Energy

SolarFlow 800 Pro, the world's first AI-integrated all-in-one balcony energy storage system, delivers unparalleled cost efficiency and intelligent energy management. Designed for users who utilize high-power photovoltaic panels (up to 2640W) and prioritize installation simplicity, this system provides the optimal solution for significantly reducing electricity bills while harnessing the long-term benefits of sustainable energy.





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>

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

 US site: <https://zendure.com>

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ZD-SF800 Pro-ZY-EN-V01