

XDS 4 AC Coupled ESS

- Trendy Design: Plug-and-play, no installation required.
- Compact & Integrated: One-piece design for a sleek and modern look.
- Modular Expansion: Stackable for flexible capacity scaling.



Why is a Perfect Fit

1. Dynamic Electricity Pricing Support

XDS4.1 can automatically monitor real-time electricity prices from local exchanges. It charges during off-peak hours and discharges during peak hours, improving household energy efficiency by over 40%.

☒ This is highly compatible with dynamic pricing schemes used by energy providers in NL/BE (e.g. Tibber, ANWB Energy, etc.).

2. Zero Feed-in & Grid Interaction Control

The system supports smart meter integration to precisely control grid interaction and enable zero feed-in. It closes the loop of generation–storage–consumption, meeting the regulations of Dutch and Belgian DSO (Distribution System Operator) networks.

☒ Especially relevant for homes that want to avoid feeding power into the grid or meet “no export”

3. Compatibility with Popular Smart Meter Systems

XDS4.1 supports integration with Shelly, EverHome, Tibber, and more, allowing local installers and consumers to use familiar energy management platforms.

☒ This enhances user confidence and system adoption in markets where smart home automation is popular.

Why is a Perfect Fit for the Netherlands & Belgium

4. Plug & Play for Easy Installation

The system is designed for easy setup without tools, which is crucial for self-installation trends in the Netherlands and Belgium's "balcony PV" and small-scale solar segments.

5. European Standards-Oriented Design

XDS4.1 is developed based on EU regulations, considering IP65 protection, safety standards, and interconnection needs, reducing certification and compliance barriers for distribution and installation.

Product Outlook:



2.4kWh Plug in Battery



4.8kWh Plug in Battery



Stackable, maximum to 12kWh

outlook color is customzied accordingly : black or grey

Key features I.



»1.**Capacity:**2.4kWh per pack and stackable to 10kWh capacity with extra 3 packs.

»2.**Max PV input/output** 2400W, adjustable to 800W output , on & off grid working module.

»3.**Support connection with Shelly /P1** to enable anti-feed in & zero-export , ensuring 100% self-consumption

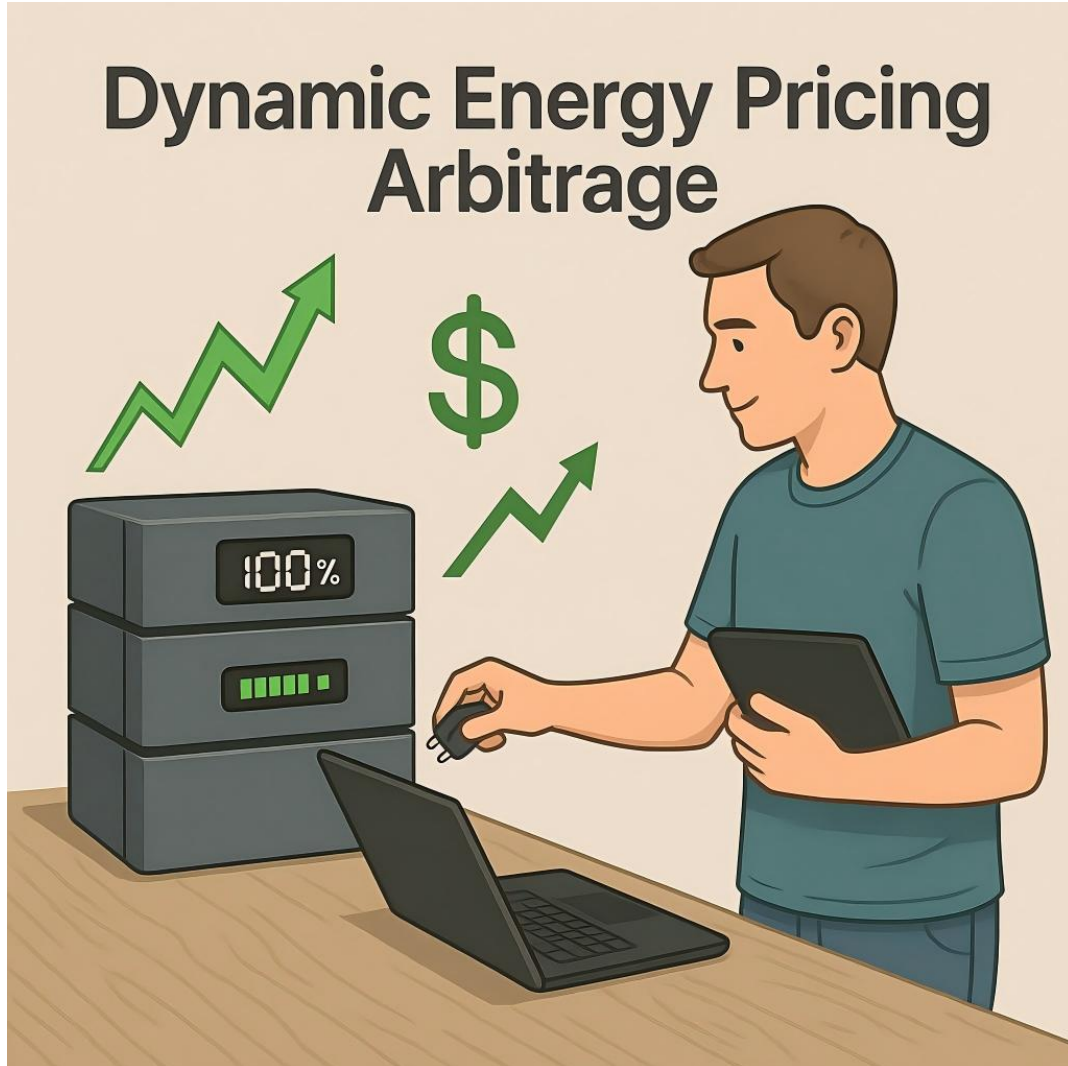
»4.**Supports reverse charging**, suitable for scenarios with electricity price differentials and for recharging during winter.

Key Features II.



- » 5. **Smart control APP** to catch up dynamic electricity price from different local energy company
- » 6. **UPS module** is available
- » 7. **High efficient inverter conversion to 97%**
- » 8. 6000+ cycle times and 10 years' service life
- » 9. IP 65 protection

Core Value and Unique Selling Point:



Smart Electricity Dispatch:

AI automatically monitors the real-time electricity prices of local power exchanges: Charge and store energy during trough hours.

Feed power to the home grid during peak hours. It increases energy efficiency by more than 40%.

Zero Feed-in Technology

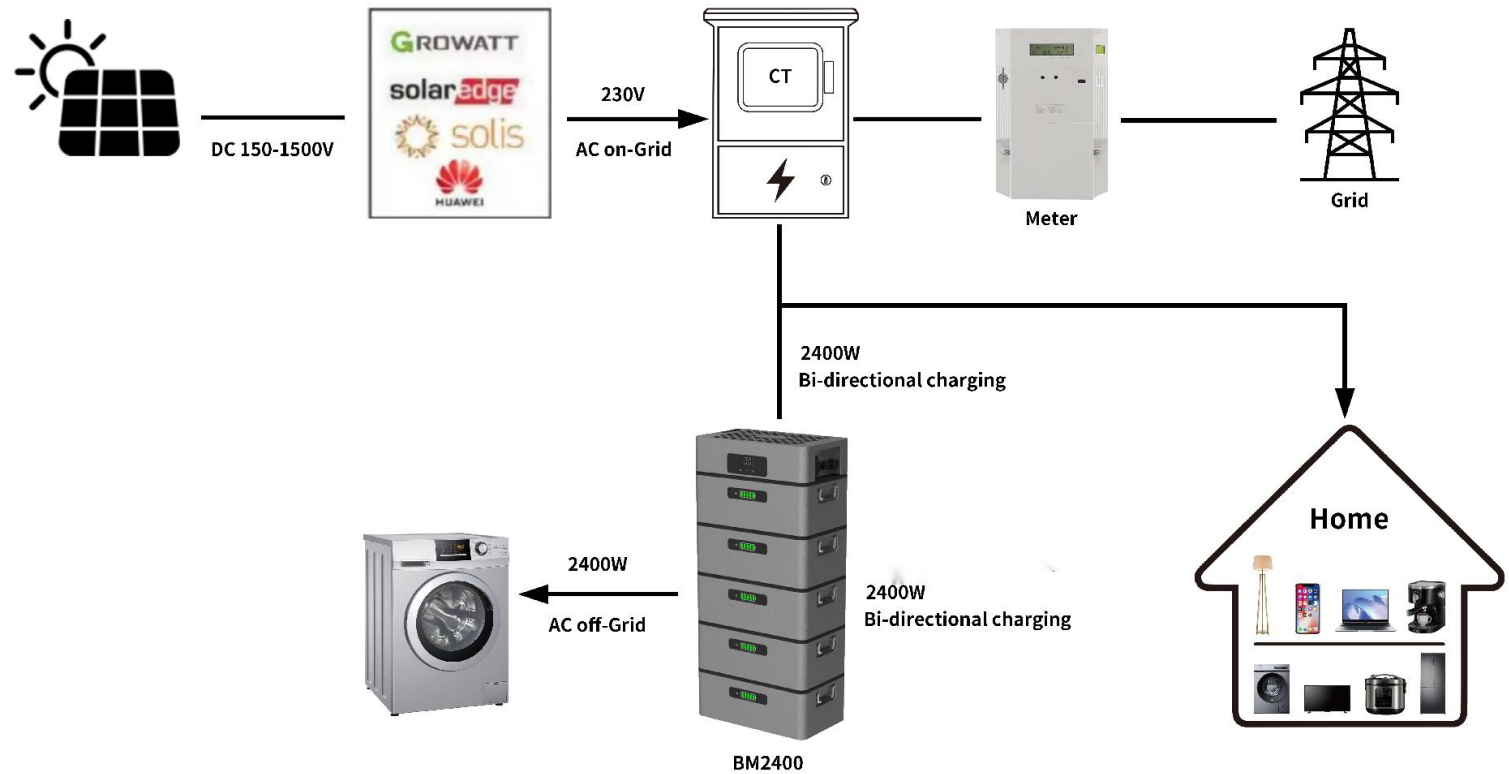
Interconnect with smart meters, precisely controlling the interaction between storage of surplus solar power and power grid, realizing the closed loop of "generation-storage-consumption", to maximize the self-sufficiency rate of home energy.

Open Ecosystem Integration

Compatible with third-party smart meters such as Shelly, EverHome, Tibber, etc, adapting to the global mainstream energy system

Wiring Diagram

- No PV Input
- AC Input Power: 2400W
- AC output power: 2400W
- PV INPUT function is customized based on request



Technical Specifications

- **Rated Voltage: 48V (15S)**
- **Capacity: 2400Wh**
- **Cycle Life: 6000 cycles**
- **Battery Type: LiFePO4**
- **Max Efficiency (Battery-AC): 97%**
- **MPPT Tracking Efficiency: 99%**
- **Protection: Overcurrent, Overcharge, Over-temperature**
- **Waterproof & Dustproof (IP65)**
- **Insulation Resistance: AC III**

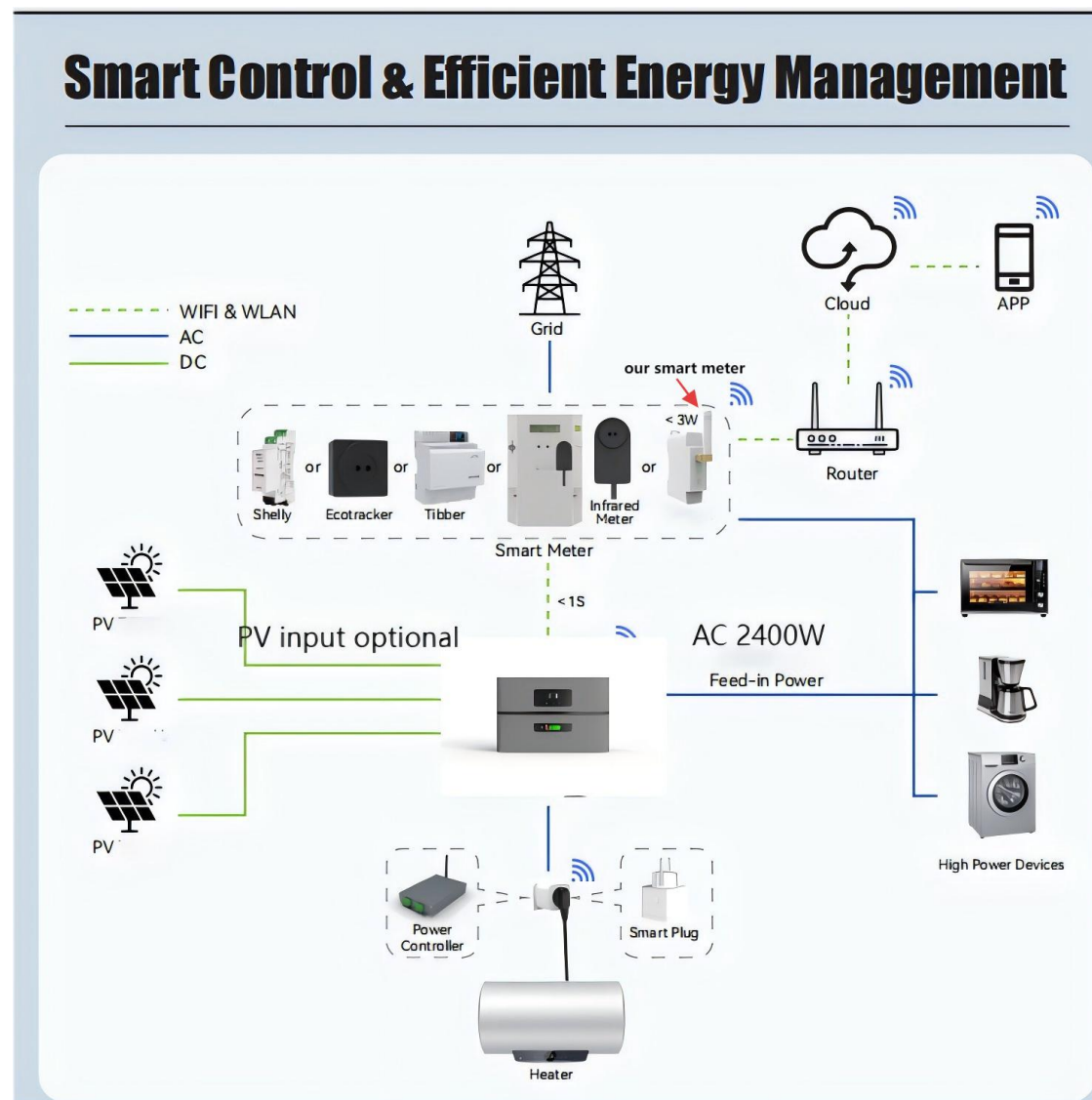


AC Input/Output (Grid)

- Rated Power: 2.4kW
- Voltage: 230V
- Frequency: 50Hz
- Power Factor: 0.99
- Harmonic Distortion: <3%

Off-Grid (Backup) Mode

- Rated Power: 2.4kW
- Max Apparent Power: 2.4kVA
- Voltage: 220V
- Frequency: 50Hz
- Harmonic Distortion: <3%



Act Now!

- Elevate your product line up with Plug in Battery—designed for reliability, scalability, and smart energy management.
- Sample is always welcome
- ***<https://www.solar-xds.com/>*** Specifications subject to technical updates.
- Contacts :info@solar-xds.com, sales@solar-xds.com for OEM/wholesale inquiries.