ZENDURE

Official Partner 2025

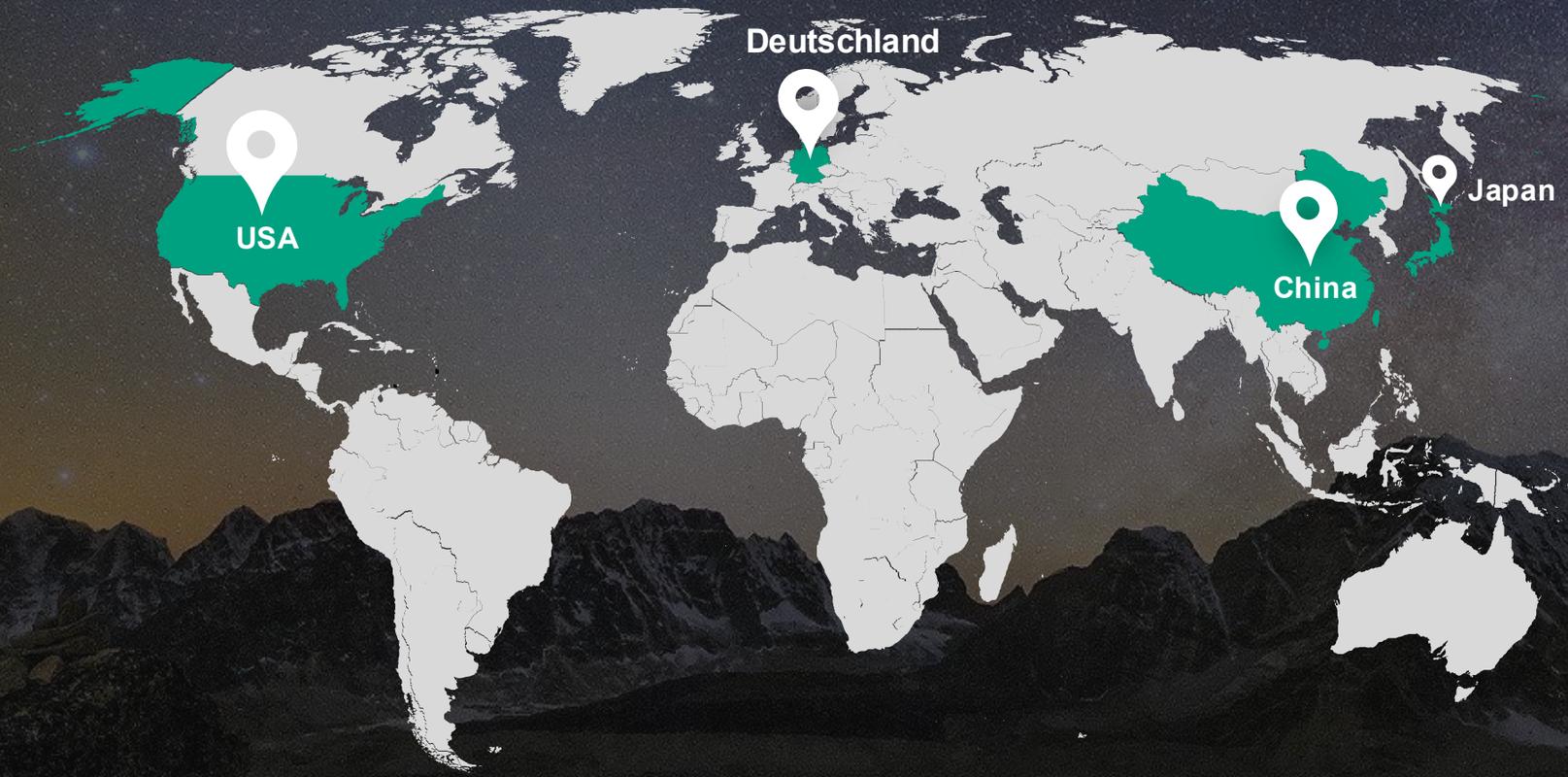
WORLD ENGINEERING DAY FOR SUSTAINABLE DEVELOPMENT

An International Day proclaimed by UNESCO

Brand & Product Introduction

2025

About Zendure



Zendure is a global leader in providing reliable, affordable and accessible clean energy solutions for households worldwide.

Since our establishment in 2017, we have expanded our presence in major technology hubs such as Silicon Valley, USA, the Greater Bay Area, China, Japan, and Germany.

Innovative R&D Capability

192
192 Global patents

98
98 balcony energy storage related patents

42
42 Invention patents

Patent layout includes: trademark, design, charge and discharge management, energy storage system, structural design, carbon emission reduction system, soft products, etc.

The R&D team accounts for 40%

The R&D investment has exceeded 5% of revenue year after year

Milestone

2021

Portable Energy Storage

SuperBase Pro

2022

High-Capacity Energy Storage System

SBV Kickstarter crowdfund of $5.39 million in 30 days

SuperBase V

2023

World’s First Modular Balcony Storage Product

SolarFlow series official website pre-sales of 4.54 million euros in 30 days

SolarFlow Hub Series

2024

World’s First Bidirectional GaN Hybrid Microinverter

Hyper Series

2025

World’s First All-in-One Balcony Energy Storage with AI Energy Management

SF 800, SF Pro, SF AC Series

Mission

Iedereen toegang geven tot betaalbare groene energie & opslag.

Vision

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

ZEN+Home Full-Stack Technology Platform

ZENDURE

ZEN+ Home

Zendure App | Console App | Installer App | Web Console

Apps

Energy Management Cloud

HEMS (Cloud) | EcoWizard AI EMS

Cloud-Cloud Connection

Third Party Cloud

Reader: everHome, Shelly

Tariff: NORD POOL, rabot.energy, tibber

EMS: APsystems, clever-PV

Smart Home: tuya, alexa

Cloud-Edge Reconciliation

HEMS (Terminal)

Data & Control

ZEN+ OS

ZenLink | Open API | HA Plugin | Matter

Terminal Hardware

Data & Local Comm

Smart Loads

Smart Loads

EV Charger

Heat Pump

Smart Sensors

Smart Reader

Smart CT

Smart Plugs

Zendure Plug-in Energy Storage Products Family

The Only Brand with Complete Plug-and-Play Product Matrix, Covering Full Price Range & Scenarios.

Scenarios

Roof-Top Storage

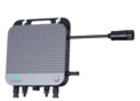
SolarFlow 2400 AC + AB3000X

Balcony Storage

Hyper 2000+AB2000X

SolarFlow 800 Pro

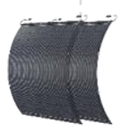
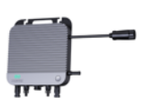
Entry-Level Balkonkraftwerk



SolarFlow 800

SolarFlow 800 +AB2000X

2025 Software & Hardware Roadmap

	2024Q4	2025.2	2025.4	2025.5	2025.7	2025.9
Software & AI	1130 Shelly & EverHome Local Com	130 HEMS Phase 1 One-Click OTA ZEN+OS	330 HEMS AI Mode (EcoWizard)	530 HEMS Expert Mode Open API HA Plug-in	730 Cloud BMS Phase 1	930 Web Interface 1130 Cloud Diagnosis
Accessories	Shelly, everHome	tibber 700+ Providers	 Smart CT TIC(FR) Smart CT P1(NL) Smart CT D0(DE)	 3Phase CT Wiht 6 inputs		 ZenDisplay
Balcony Storage	 Hyper 2000 & AB2000S		 AB2000X  SolarFlow 800 Pro			
Roof-Top Storage			 SolarFlow 2400 AC +A3000X			
Entry-Level Balkonkraftwerk	 Double-glass rigid photovoltaic panel  Flexible photovoltaic panel Generation 2	 SolarFlow 800				

ZENDURE

Hyper 2000

with Bidirectional 1200W AC

AB2000X

Product Appearance

Plug & Play AC Coupling Energy Storage Solution

On-Grid Mode

Product KSP: 1200W bi-directional charge/discharge

Plug & Play AC Coupling Energy Storage Solution

Input from grid: **1200W Max**

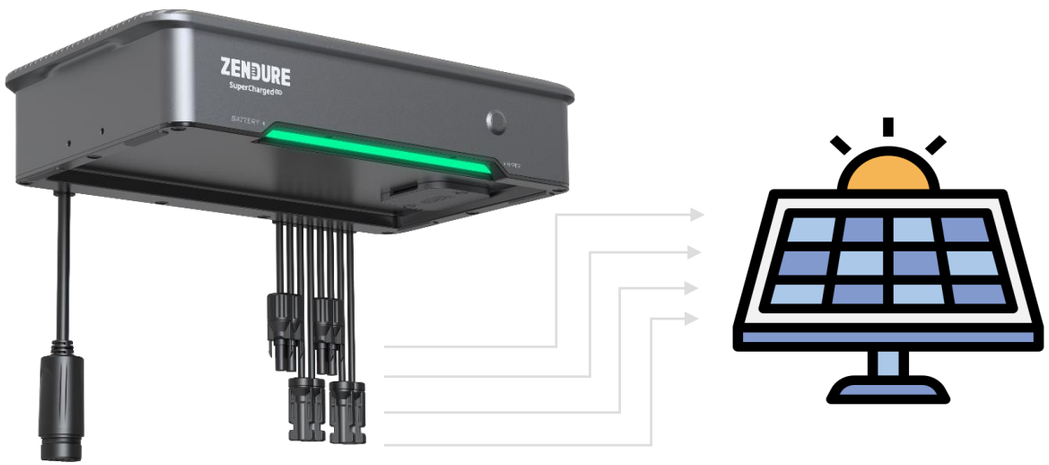
Output to grid: **1200W Max**

User benefits:

- During periods of low sunlight intensity (e.g., winter), grid electricity can be utilized to charge the battery, preventing battery depletion.
- For rooftop PV customers without storage, surplus solar-generated electricity can also be stored via AC charging.
- Enables Time-of-Use (TOU) functionality, allowing for electricity storage during off-peak rates and discharge during peak rates.

Product KSP: Dual MPPT，1800W

Plug & Play AC Coupling Energy Storage Solution



User benefits:

- **1800W:** Supports solar panels over 2000W, facilitating greater power generation with a daily potential output of up to 8 kWh.
- **4 sets of MC4 ports, Dual MPPT:** Flexible installation, no need for additional parallel wires, and high generation efficiency of dual MPPTs compared to single MPPTs.

Product KSP: Modular Stackable Design

Plug & Play AC Coupling Energy Storage Solution

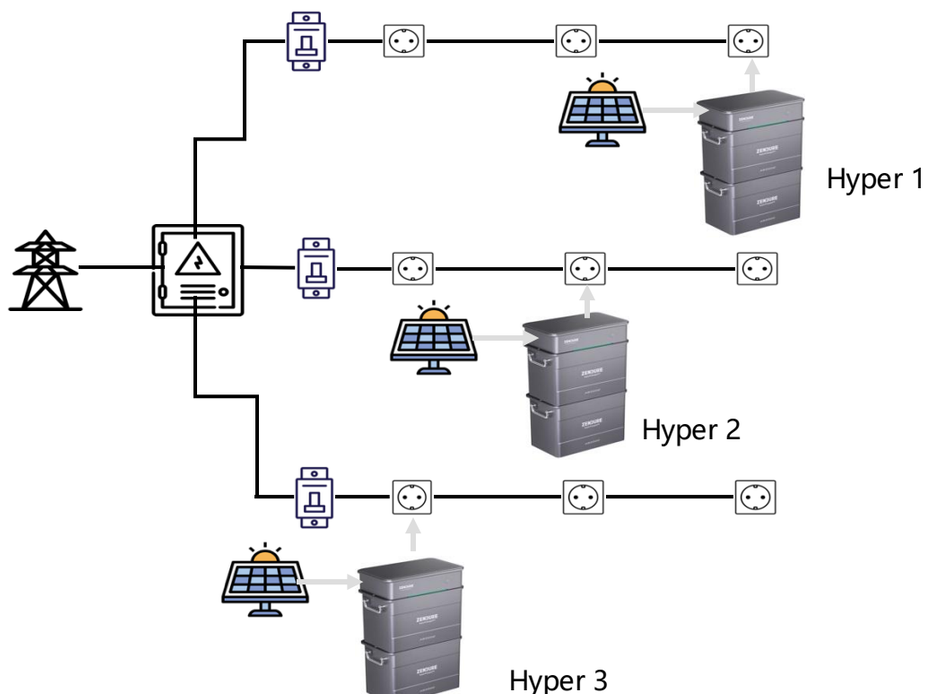
User benefits:

- Easy installation
- Plug-and-play
- Convenience Space-saving design

Product KSP: ZenLink* Automatic Networking

Plug & Play AC Coupling Energy Storage Solution

In the same phase



Multiple units with total power limited within the range

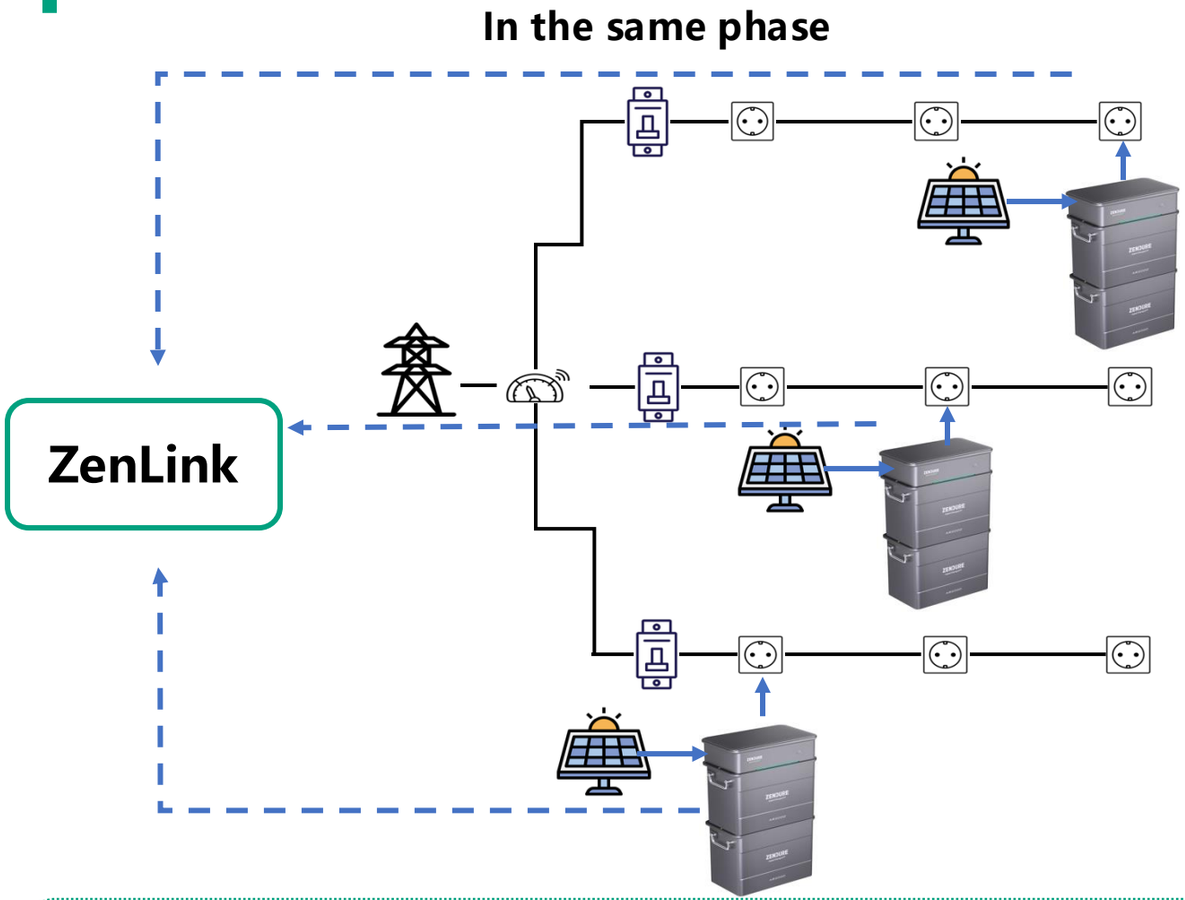
Power (Hyper1+Hyper2+Hyper3): 0-**1800W**

***ZenLink**, a local communication technology that enables multiple SolarFlow Hypers to communicate to each other without the limit of internet connection. As long as they are plugged into the same micro-grid of a house, they will instantly recognize each other and start communicating.

User benefits: :

- Through ZenLink, automatic networking of 3 Hyper units on the same phase is achievable, with the total power output not exceeding 1800W.
- Enhances both power generation and storage capacity (MPPT: 1.8kw-5.4kw, Capacity: 0-23.04kwh)
- ZenLink allows non-professional electricians to confirm phase connectivity, reducing installation costs and time.

Product Working Logic- ZenLink Automatic Networking



Communicate through **ZenLink** to ensure that within the same phase, the total power of 3 Hypers is controlled within the user's setting.

Circuit communication signals

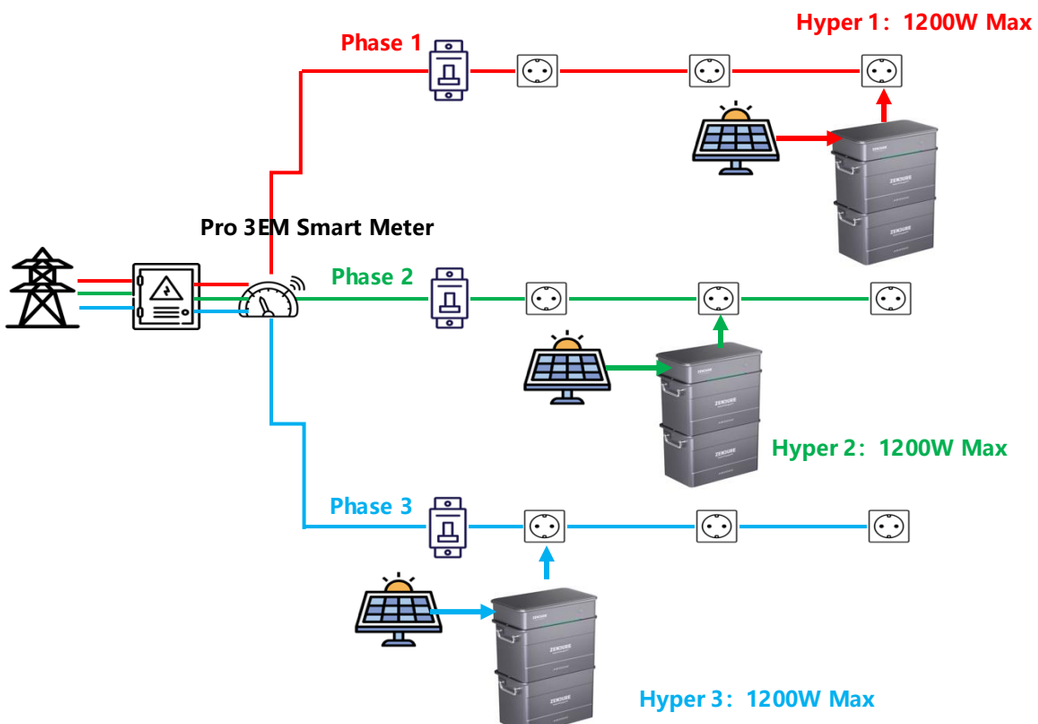
Working logic

1. Through ZenLink to detect whether multiple Hypers on the same phase.
2. If on the same phase, multiple Hypers automatically network.
3. According to the total power set by the user, the output power is distributed in average. For example, if the user sets the total output power of three Hypers to be 900W, then the output of each is 300W.

Product KSP: The first 3-phase smart linkage solution

Plug & Play AC Coupling Energy Storage Solution

In the different phase



By installing **Shelly's Pro 3EM**, users can have each phase-installed Hyper automatically adjust its output power based on the different load powers of each phase.

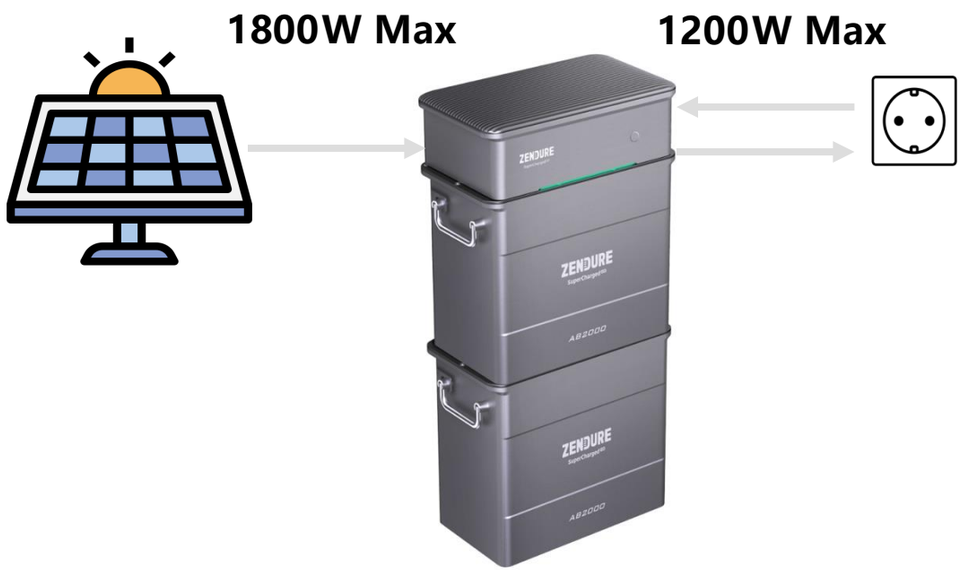
User benefits: :

Convenient installation: ZenLink technology distinguishes whether multiple Hyper units are installed in different phases.

Improved energy efficiency: Hyper output power can be adjusted according to the different output power of each phase, which improves energy efficiency and maximizes home use.

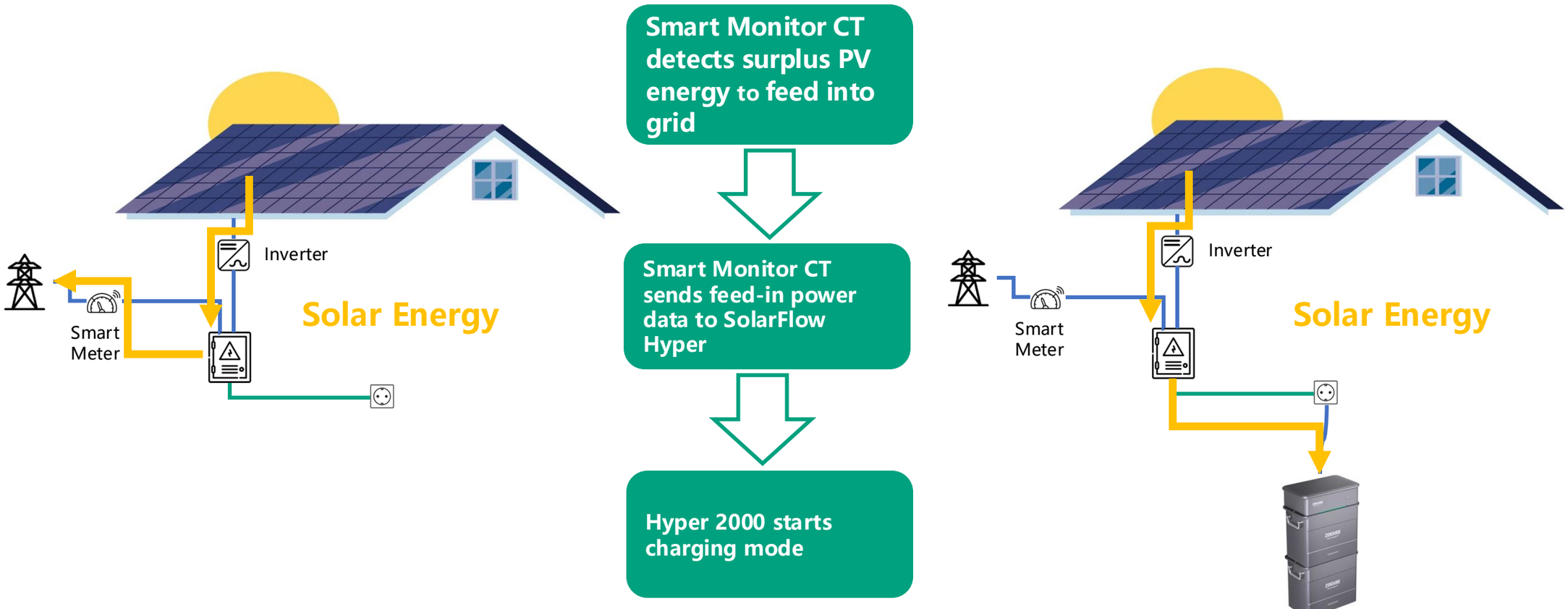
Compliance with safety standards: Each phase of the Hyper can be fed with the power required by local laws.

User Scenarios:
Plug and Play New Modular Balcony Storage Solution



For new balcony energy storage users:
Residing in villas or townhouses and considering the installation of photovoltaic systems on their balconies.

Product Working Logic-AC Coupling energy storage



Example: The Smart Monitor CT detects that the rooftop PV has 700W feeding into the grid, then the Smart Monitor CT will instruct Hyper to start charging via WiFi communication, with a charging power of 700W.

User Scenarios:
Plug-and-Play AC Coupling Self Consumption

Single-phase AC Coupling Linkage Solution

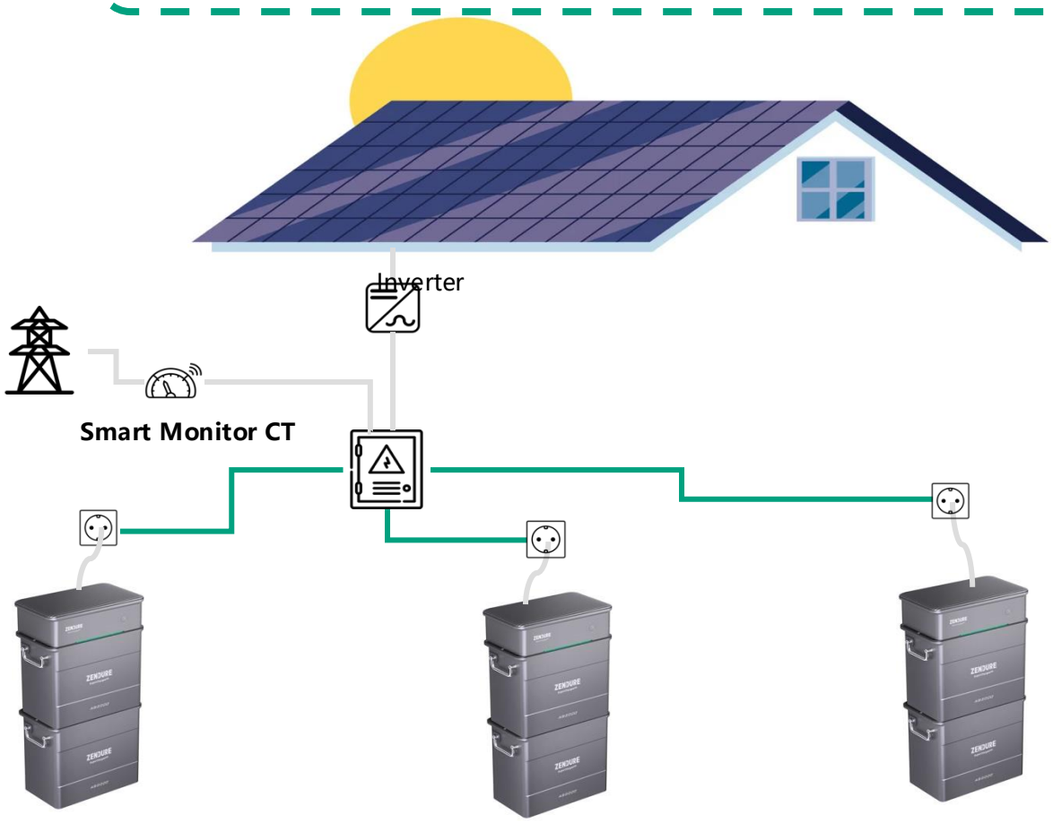
Smart Monitor CT detects surplus PV energy to feed into grid

Smart Monitor CT sends feed-in power data to SolarFlow Hyper

Hyper 2000 starts charging mode

Single-phase 3 Hyper units linkage Input : 1800W Max

For Existing Rooftop PV Users:
Living in villas or townhouses with rooftop photovoltaic installations.



Product Working Logic
Power Generation, Energy Storage, and Electricity Use

MPPT: 1800W Max

AC output/input: 1200W Max

Charge to batteries: 1600W Max

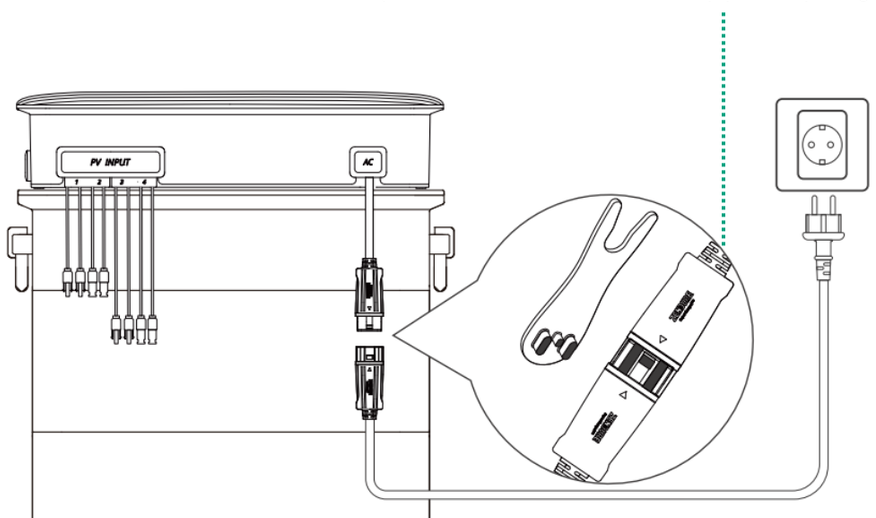
Output from batteries: 1200W Max

Product Working Logic-Off-Grid Mode

Step1: 拆开AC线的连接口

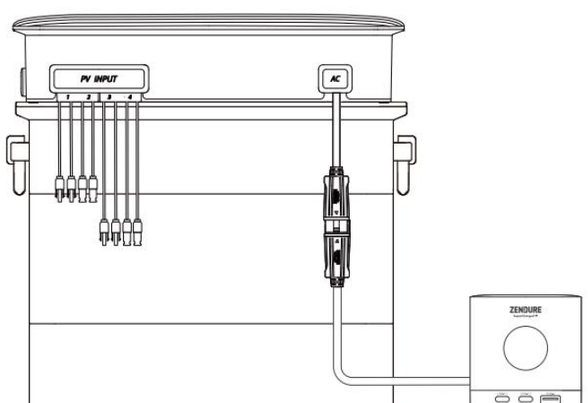
Step1: Unscrew the AC cord connection

- **扳手**（包含在Off-Grid Power Strip产品包装里）
- **Wrench** (Included in the Off-Grid Power Strip product packaging)



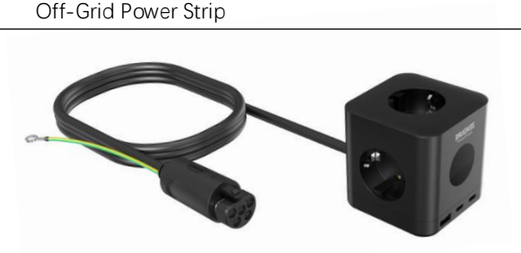
Step2: 将Off-Grid Power Strip连接在Hyper 2000的AC线的连接口

Step1: Connect the Off-Grid Power Strip to the AC line connection port of the Hyper 2000.



Note：地线不要求强制接地。

Product Specification

Name	Off-Grid Power Strip
ID	
Model	ZDOGPS
Length	1.5m
Input	250VAC, 50/60Hz, 16A (For AC socket used, USB ports with or without load) or 100-240VAC, 50/60Hz, 1.5A (For USB ports with load only)
3AC Output Total	250VAC, 16A, 4000W Max (When USB ports without load)
3AC Output Total	250VAC, 15A, 3750W Max (When USB ports with load)
USB-C1/C2 Output	5V⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓3.35A (67W Max)
USB-A Output	5V⎓3A/9V⎓2A/12V⎓1.5A (18W Max)
USB-C1+USB-C2	45W+20W or 35W+30W (65W Max)
USB-C1+USB-A	45W+18W (65W Max)
USB-C2+USB-A	5V⎓2A+5V⎓2A (20W Max)
USB-C1+(USB-C2+USB-A)	45W+(5V⎓2A+5V⎓2A) 65W Max
USB-C1	45W (5V⎓3A/9V⎓3A/12V⎓3A/15V⎓3A/20V⎓2.25A
USB-C1/C2	35W (5V⎓3A/9V⎓3A/12V⎓2.92A/15V⎓2.33A/20V⎓1.75A
USB-C1/C2	30W (5V⎓3A/9V⎓3A/12V⎓2.5A/15V⎓2A/20V⎓1.5A)
USB-C1/C2	20W (5V⎓3A/9V⎓2.22A/12V⎓1.67A)

此为Off-Grid Power Strip产品本身可支持的最大功率，实际输出功率取决于所连接主机的最大输出功率，如连接Hyper 2000时，Off-Grid Power Strip最大输出功率为1200W

Product Specification

Hyper 2000	
Model	ZDHYP2000
PV Input	
PV Input Ports	Solar Connector, PV1-4
PV Input Rated Voltage	15V-55V
PV Input Recommended Power	350W-550W
Number of MPPTs	2
MPPT1 Connections	PV1 & PV2
MPPT2 Connections	PV3 & PV4
Each MPPT Rated Voltage Range	16-48V
Each MPPT Rated Current	20A
Each MPPT Rated Power	900W
AC Power Input/Output	
Rated Power	1200W
Rated Voltage	220V/230V/240V
Rated Frequency	50Hz
Rated Current	5.5A
Battery Terminal	
Charging Mode	
Maximum Input Power	One AB1000 Battery: 950W
	One AB2000 Battery: 1200W
	Two or More Batteries: 1600W
Discharging Mode	
Maximum Output Power	One AB1000/2000 Battery: 1200W
	Two or More Batteries: 1200W

Environmental Adaptability	
Charging Temperature	-25℃ to 60℃
Discharging Temperature	-25℃ to 60℃
Storage Temperature	-25℃ to 85℃
Maximum Relative Humidity	90%
IP Rating	IP65
Others	
Wireless Type	Bluetooth, Wi-Fi
OTA	Supported
Dimensions	350 x 202 x 78mm
Product Weight	5.4kg (Excluding brackets and AC cable)

SolarFlow 2400 AC

DE/ NL: World’s First AC-coupled Light-install Home Battery with AI Energy Management

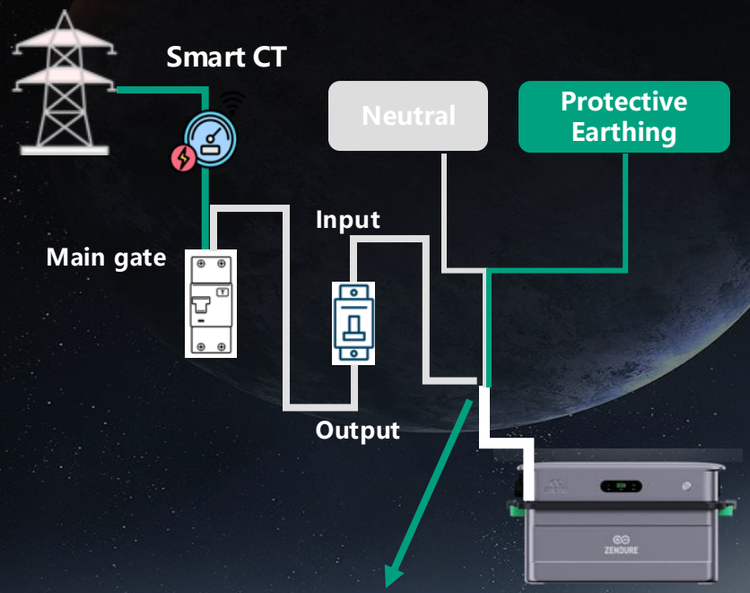
FR: World’s First AC-coupled Plug-and-play Home Battery with AI Energy Management

SolarFlow 2400AC & AB3000X

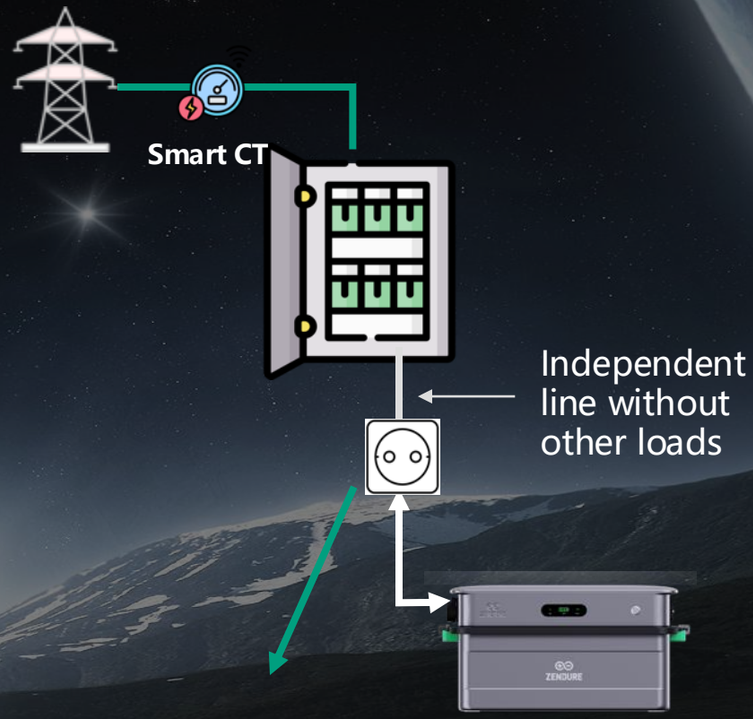
* SolarFlow and AB3000 all less 30KGs , Could be Shipped Sperated by Express

AB3000X

Top 1 Spec：Light Installation Solution for BE/NL; Plug-and-Play for FR

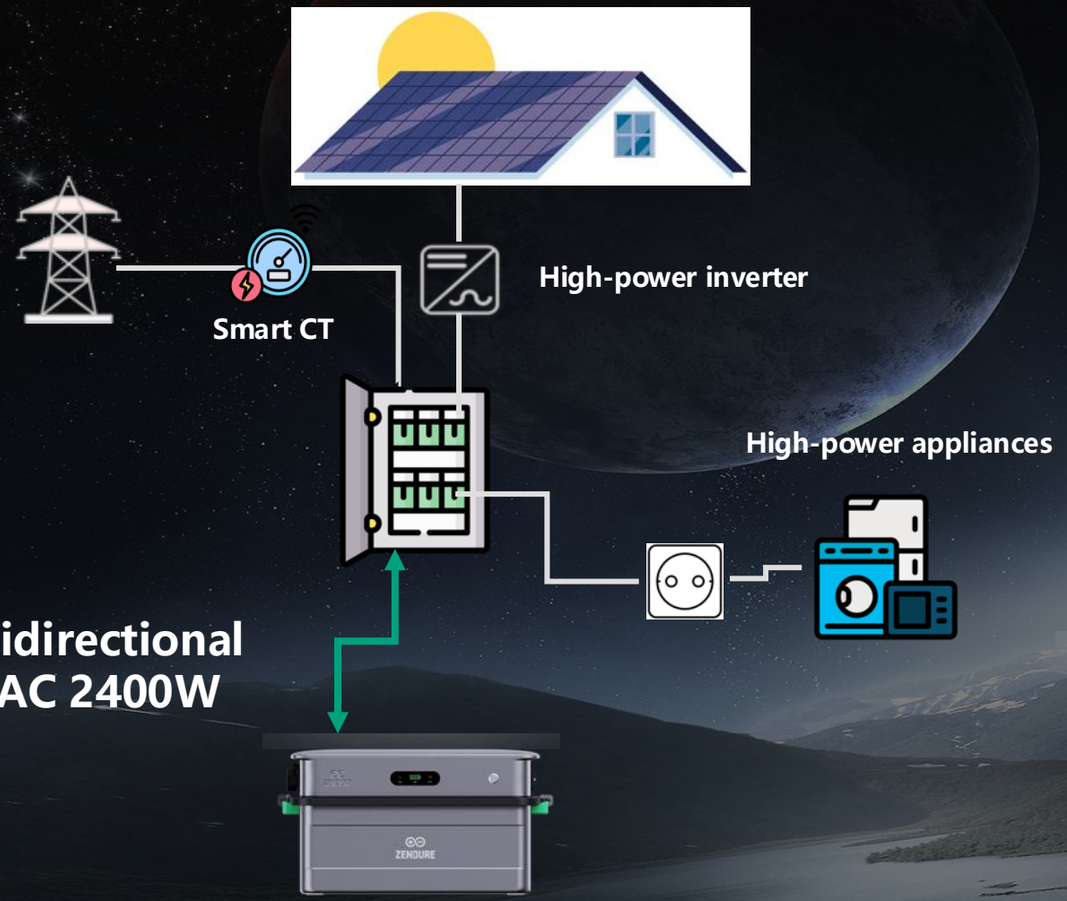


A professional electrician is required to assist in the installation: The live wire of the SolarFlow 2400 AC is connected to the input terminal of a separate Breaker, the neutral wire is connected to the neutral terminal of the power distribution, and the ground wire is connected to the Protective earthing.



Independent line plug and play (professional electrician is required to assist in installation)

Top 2 Spec：2400W Bidirectional AC-coupled for Roof-top PV Systems



Top 3 Spec： Intelligent Whole-house Energy Management System—EcoWizard: (AI Mode)

Power generation forecast

Historical power generation

Weather

Battery level

...

Electricity consumption forecast

Historical power consumption

Dynamic tariff

Battery level

...

Smart Analysis

Smart electricity plan

Automatic Energy Optimization

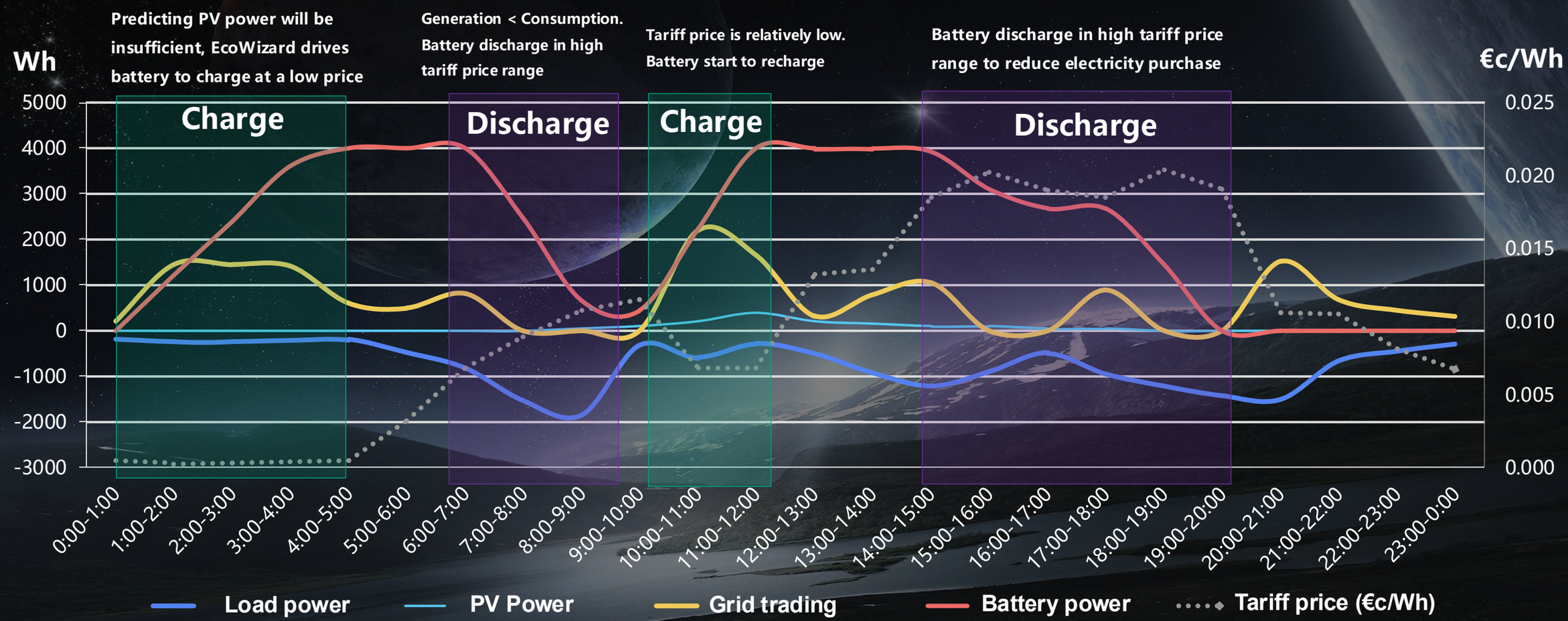
Dynamic Tariff Plan

AI executes energy plans automatically

Help users reduce electricity costs by about 6%-10%, up to 30%.

EcoWizard (AI EMS) Helps User Reduces 10% Energy Costs, up to 30%

AI Mode schematic diagram

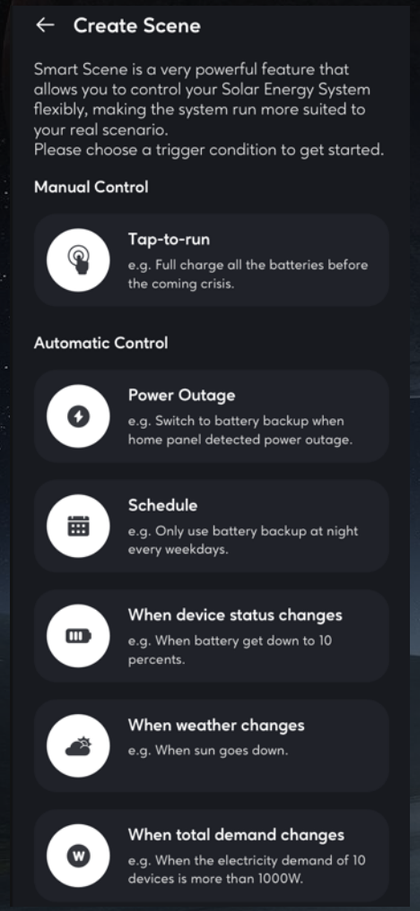


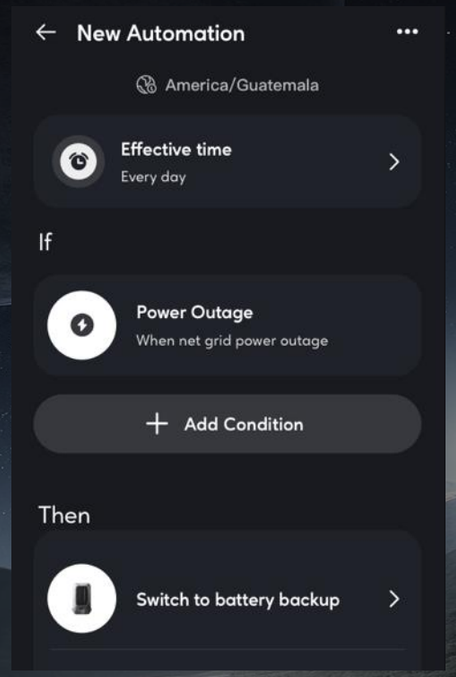
Top 3 Spec： Intelligent Whole-house Energy Management System—Expert Mode Energy Plan, Control of Multiple Devices :Script

Expert Mode Energy Plan

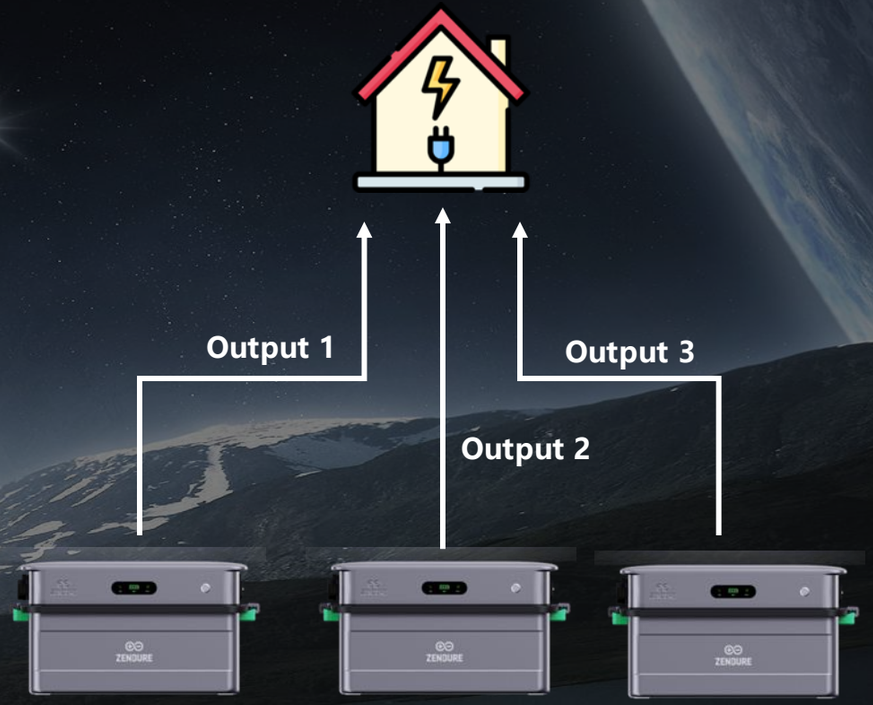
Choose a variety of trigger conditions

- Power outage
- Schedule
- Device status
- Weather
- Household load demand
- Electricity price





Intelligent control of multiple devices

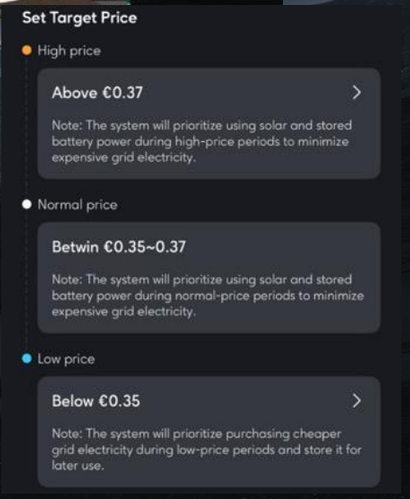


Output 1 ✚ Output 2 ✚ Output 3 ≤ Required load power

Top 4 Spec： 700+ Tariff Suppliers, Biggest in the Industry

Connected to the most complete and professional EU energy providers

So that users can choose whatever dynamic tariff supplier they want and make use of TOU



Top 5 Spec：High Precision, High Efficiency, and Fast Response Intelligent Regulation Solution—More Hardware Support

Smart Meter D0 （DE）

Plug and Play

Germany Smart Electricity Meter

Smart Meter TIC （FR）

Plug and Play

France Linky Electricity Meter

Smart Meter P1 （NL）

Plug and Play

Belgium Digital Electricity Meter

User benefits:
No installation fees

ZENDURE

SuperCharged