AC-Coupled Micro ESS

HYX-MS3000AC
3014Wh

www.hyxipower.com

Zhejiang Hyxi Technology Co., Ltd.

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Product Overview

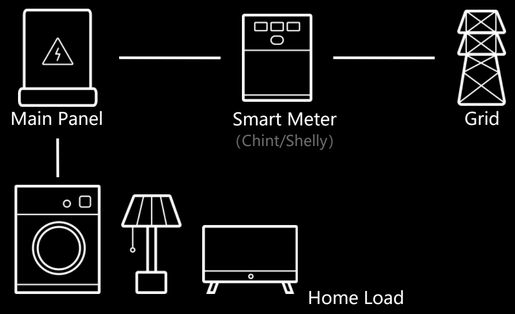
AC-Coupled Micro ESS

HYX-MS3000AC
3014Wh

Battery Pack

HYX-MS3000B
3014Wh

System Introduction



Items	Description
HYX-MS3000AC	All-in-one unit seamlessly integrates with existing or new solar installations, storing surplus solar power for use at night, during peak electricity rates, or during a grid outage.
HYX-MS3000B	Scalable expansion battery packs that are the key to customizing and scaling your home's energy storage capacity.
Wireless Smart Meter (optional)	Continuously monitoring whole-home energy production and consumption in real-time, providing the essential data needed for smart, automated control.

Naming Rule

HYX - MS 3000 AC/B

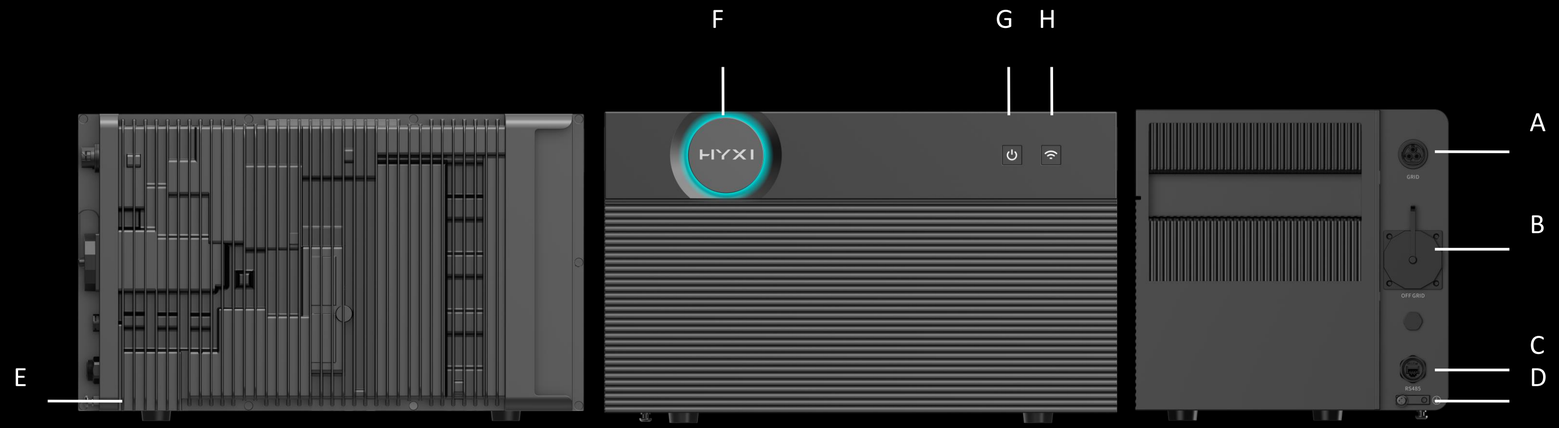
Brand Name	Product Type	Capacity	Part
HYX: HYXiPOWER	M: Micro S: Storage	3000: 3014Wh	AC: AC-Coupled B: Battery Pack

Appearance – interfaces

Number	Items	Description
A	On-Grid Port	Send power to the grid and pull energy from the grid
B	Off-Grid Port	For your essential appliances during a blackout
C	RJ485	A standard network cable ports used for thrid-party EMS to control your system
D	Ground Screw Hole	This is where you attach the safety ground wire
E	Battery Expansion Port	To add more batteries
F	RGB Energy Ring	Display the device operating status
G	Power Button	Turn on/off the device
H	IoT Button	Turn on/off the WiFi/BLE

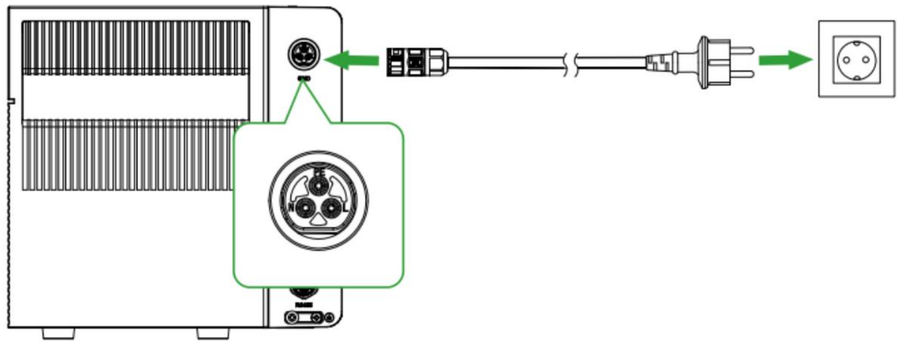
HYX-MS3000AC
Size: L*H*D=460×279×281mm

HYX-MS3000B
Size:L*H*D=460×296.5×274mm

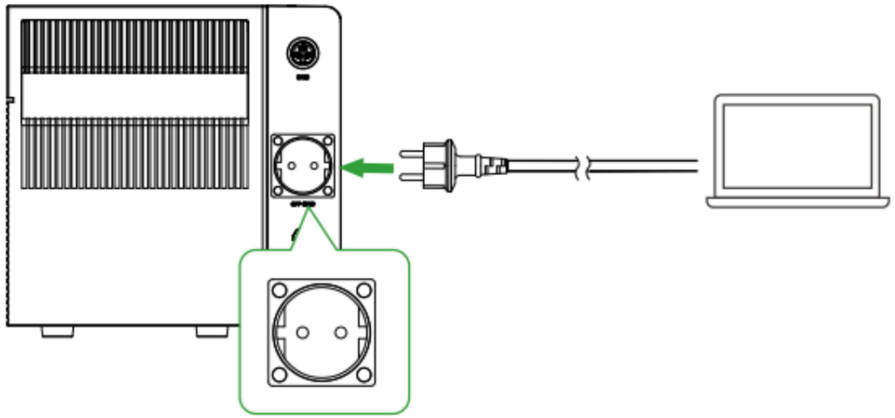


Rapid Installation - Plug&Play

Grid Connection



Off-grid Connection



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Application Scenarios

Outdoor

Balcony

Garden

Roof

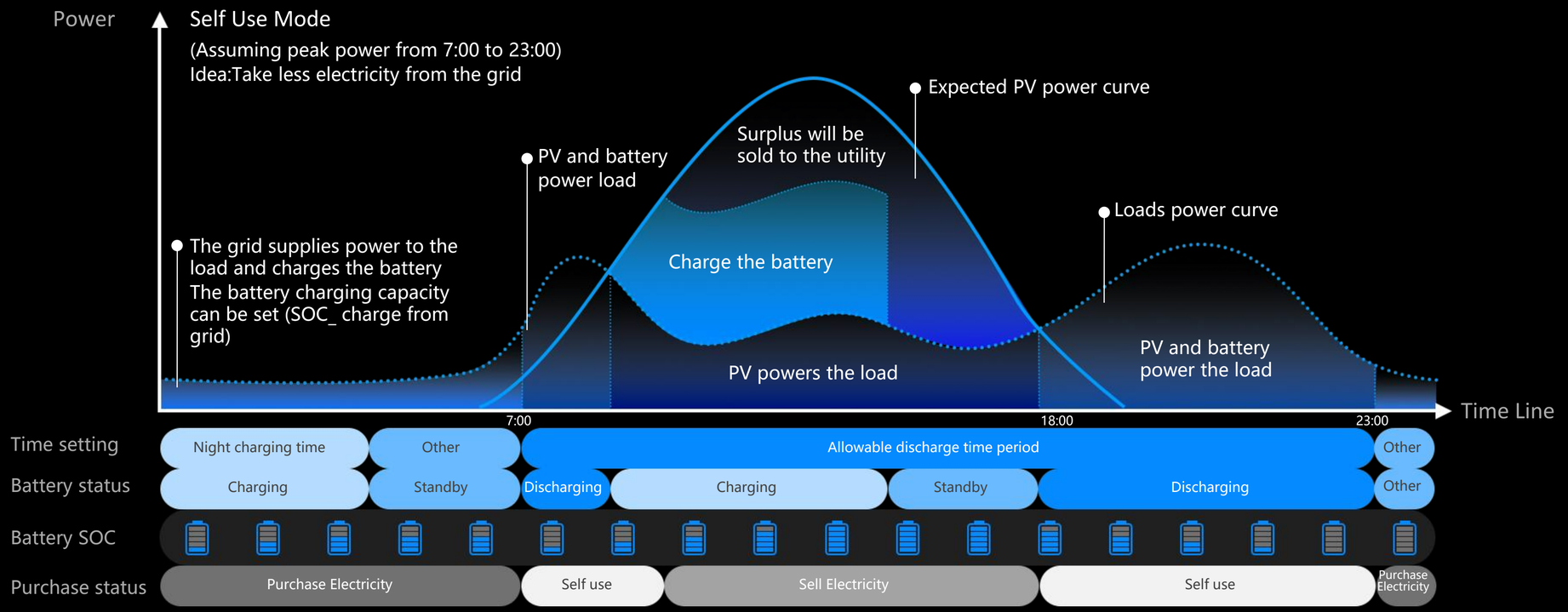
Working Mode - AI Mode

AI Mode

The AI mode crunches the data on future energy production, your consumption habits, and real-time electricity prices to generate a personalized, optimal power plan, thereby maximizing users' electricity benefits.

* AI mode requires a smart meter and is only compatible with phones that support Google Maps.

Working Mode - Self-Use Mode



Self-Use Mode

The smart meter monitors the home's power consumption (drawing power from or feeding power to the grid) .The system intelligently adjusts the its output power to maximizes your use of solar power and minimizes reliance on the grid.

Priority

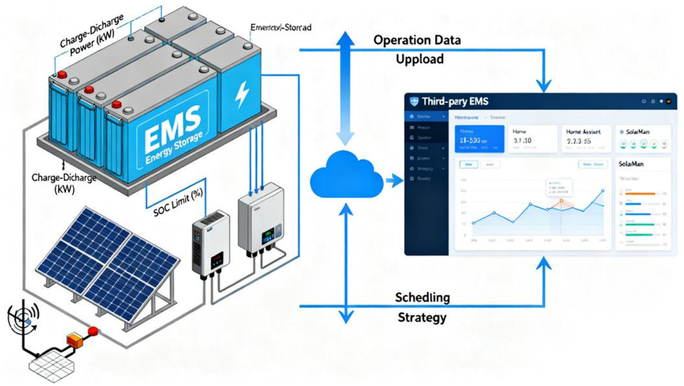
Load > Battery > Sell to Grid

* This function is only available if the system is connected to a wireless smart meter.

Working Mode - VPP Mode

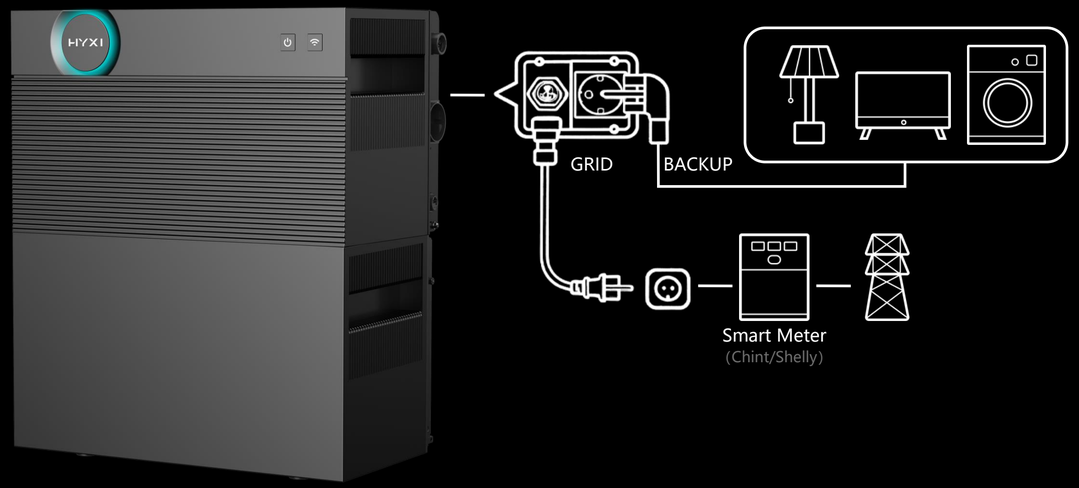
Authorize VPP operators to remotely and intelligently schedule the charging and discharging of your batteries under specific conditions to achieve stability and economic benefits for the entire power grid.

Working Mode - Remote Mode



Set the scheduling parameters of your system through a third-party EMS.
Use it only if required.

Plug-In Solution



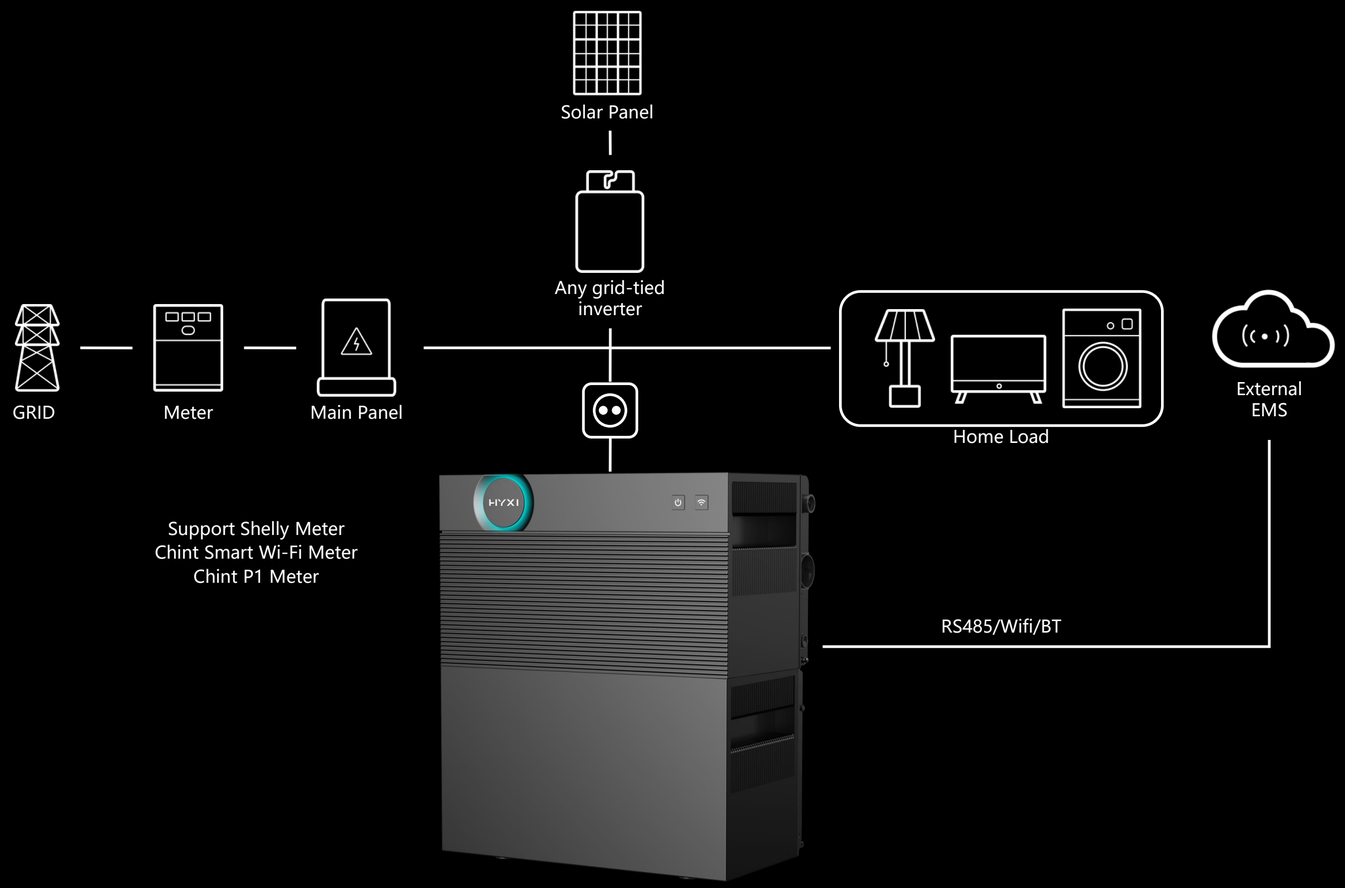
Note

-The wireless smart meter is optional. If the client need self-use mode/AI/TOU mode to maximize the benefits, wireless smart meter is a must.

-DO NOT connect both the Grid and BACKUP sockets of the device to the city power network. Doing so will cause a circuit break or possible device damage.

-With an extended battery pack, the Max. AC output apparent power of on-grid and off-grid is 3kW; without the extended battery pack, it is 1.5kW. The default nominal on-grid output power is 800W. The maximum on-grid output power can be boosted via the app. Enabling this function must comply with local regulations and should only be performed by authorized personnel!

Professional With third-party grid-tied Inverter Solution



Note

-The AC-Coupled balcony ESS is compatible with all photovoltaic systems.

-With an extended battery pack, the Max. AC output apparent power of on-grid and off-grid is 3kW; without the extended battery pack, it is 1.5kW. The default nominal on-grid output power is 800W. The maximum on-grid output power can be boosted via the app. Enabling this function must comply with local regulations and should only be performed by authorized personnel!

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3 kWh Battery Storage Capacity

More power for unlimited storage

- 3014Wh large capacity, An industry-leading capacity that stores more, powers more, and delivers reliable performance day after day.

10000 Cycles with 10 years warranty and 15 years design-life

Built to Last: Your Unshakable Energy Foundation

- Long-lasting LiFePO4 batteries, Our advanced LiFePO4 batteries are made with a prismatic casing and support up to 10,000 cycles. After 10,000 cycles, the battery capacity remains at 60%.

3000W bidirectional inverter

3000W bidirectional inverter

- Equipped with a built-in bidirectional inverter, it boasts a charging and discharging power of 3000W that is industry-leading power, 20% higher than competitors. It stores electricity under low sunlight or negative electricity prices and cleverly utilizes dynamic pricing: charging at low rates and discharging at high rates – maximizing cost savings.

Max. 3kW Backup

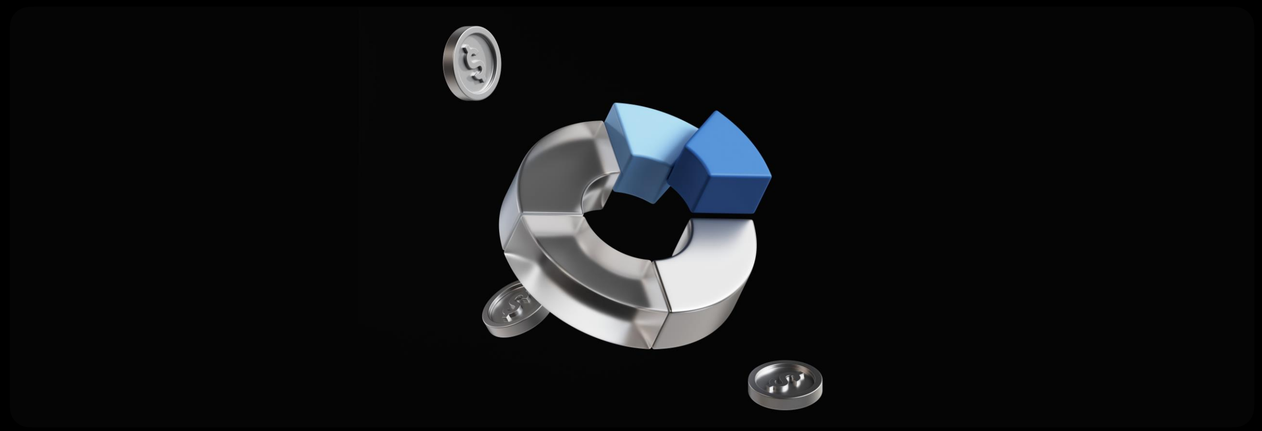
- Uninterrupted power for your essentials.

Charge availble at -20℃

Installed Anywhere. Unfazed by Everything

- Reliable from -20°C to 55°C with stable startup in extreme winter climates -no delay, no external heating required

Grid Partner (VPP): Get paid for power you don't use.



Intelligent Storage That Pays You Back

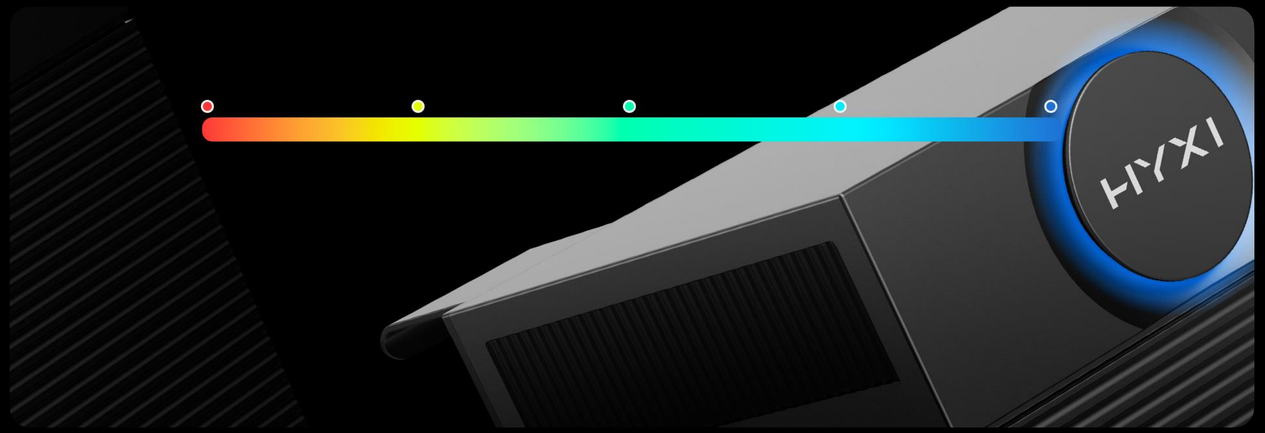
- Grid Partner (VPP): Get paid for power you don't use.

Plug and Grow

Flexible stacking expansion, no external wiring required, up to 18.086kWh

Works with Any Solar System

RGB intelligent lighting



RGB lighting supported

- Sync your energy with your ambiance. Customize your system's look to match your mood and style.

Noiseless Design, operating noise as low as 25dB

Whisper-Quiet Operation (25dB)

- Integrates seamlessly into your living space. You'll forget it's there, until you see the savings on your bill.

Auto-Extinguish Protection

Stage 1
Early Risk Detection

Proactively identifies anomalies like thermal runaway precursors

Stage 2
Immediate Warning

Alerts users via app notifications
And audible alarms

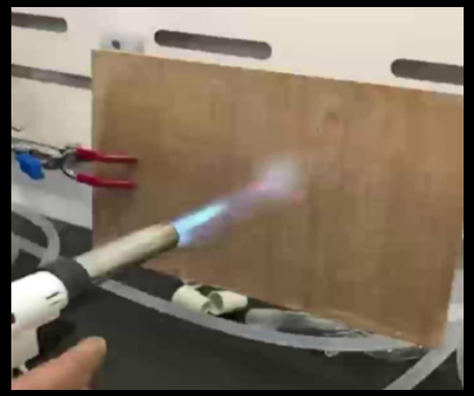
Stage 3
Auto-Extinguishing

Aerosol system triggers Automatically to suppress fire at its source

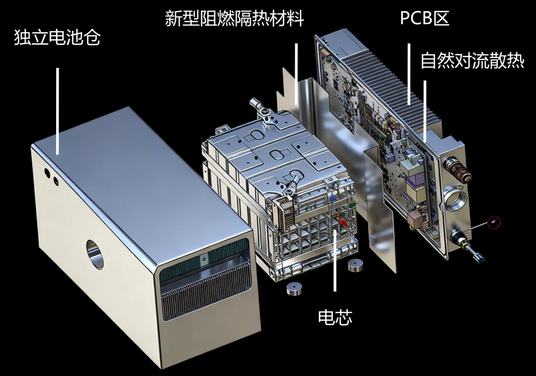
Engineered for Safety

- Built for Peace of Mind. Three levels of safety protection: early detection of risks, immediate warnings, and automatic triggering of protection mechanisms with aerosol

Intelligent Thermal Control

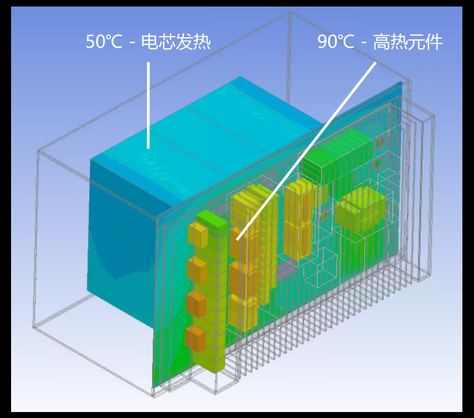


新型阻燃隔热材料，同工况下喷枪测试，新材料背部温度比气凝胶低70℃



机头结构示意图

气凝胶防火模块

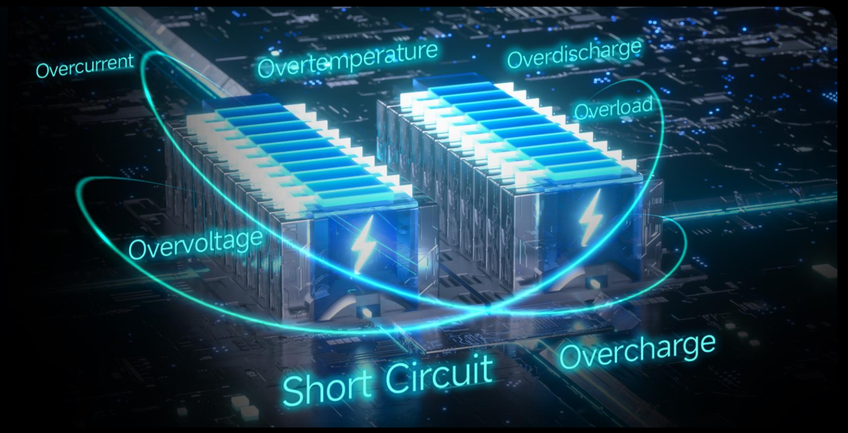


冷热分仓设计

Industry-leading hot–cold compartmentalized design: the battery and PCB are isolated with flame-retardant barriers. Thermal runaway in the battery “cold zone” does not propagate, while the PCB in the “hot zone” is effectively protected against condensation.

Independent battery-compartment design integrating flame retardancy, thermal insulation, and smoke suppression. Under normal operating conditions, the battery area remains more than 15 °C cooler than the PCB area, keeping the cells in a continuously “cooled” state. Under extreme conditions such as thermal runaway, the flame-retardant rating meets UL94 V-0 standards; with effective fire resistance and thermal insulation in the battery compartment, the temperature difference between the inside and outside can reach up to 1000 °C.

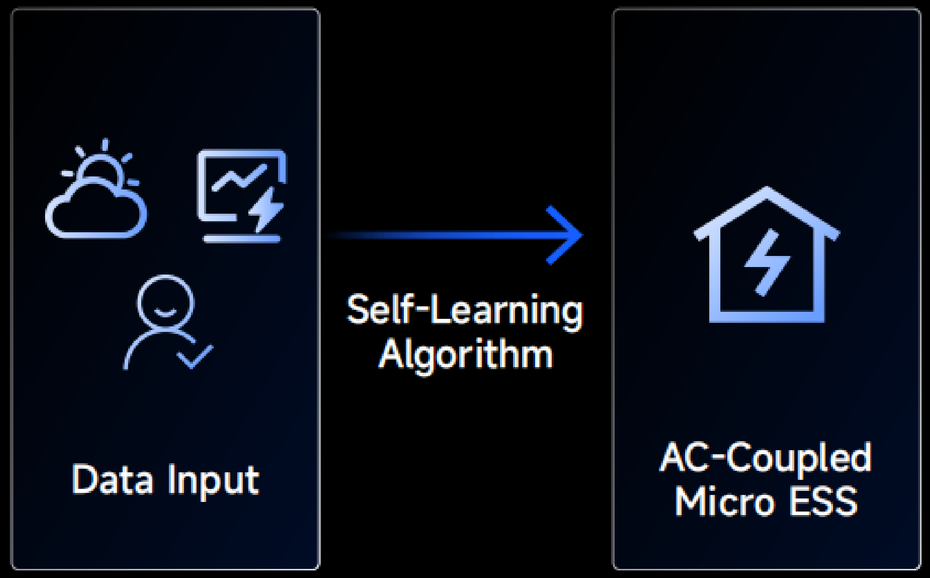
Automotive-Grade BMS



BMS provides comprehensive battery protection

- self-learning power estimation, and multiple software and hardware protections, such as overload, overvoltage, overcurrent, short circuit, overtemperature, overcharge, and over-discharge protection.

Smart AI



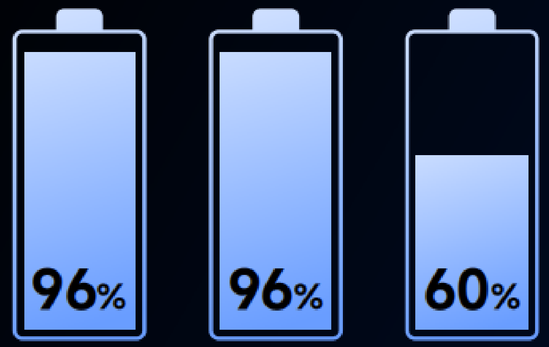
Smart AI: Learns your life to save you money.

Automatically optimizes energy use by forecastingsolar generation, learning your usage habits, andtracking real-time electricity prices to help yousave more in one click.

Notes: Smart Meter required

Balanced Battery Health

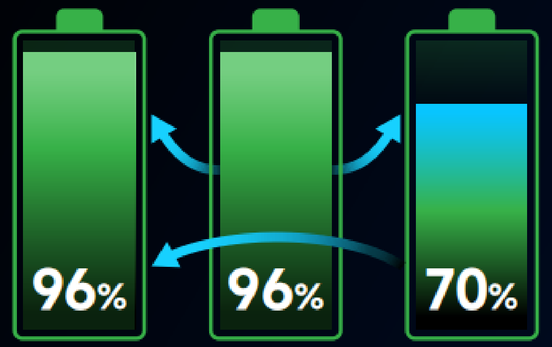
Traditional Batteries



Avg. Usable Energy: 60%

Limited by weakest cell, causing faster capacity fade and shortening overall lifespan.

Our Batteries



Full-Time Cell Balancing

Actively redistributes energy from stronger cells to weaker ones, with **20%+ improved efficiency and extended lifespan.**

Zero Waste with Smart Meter

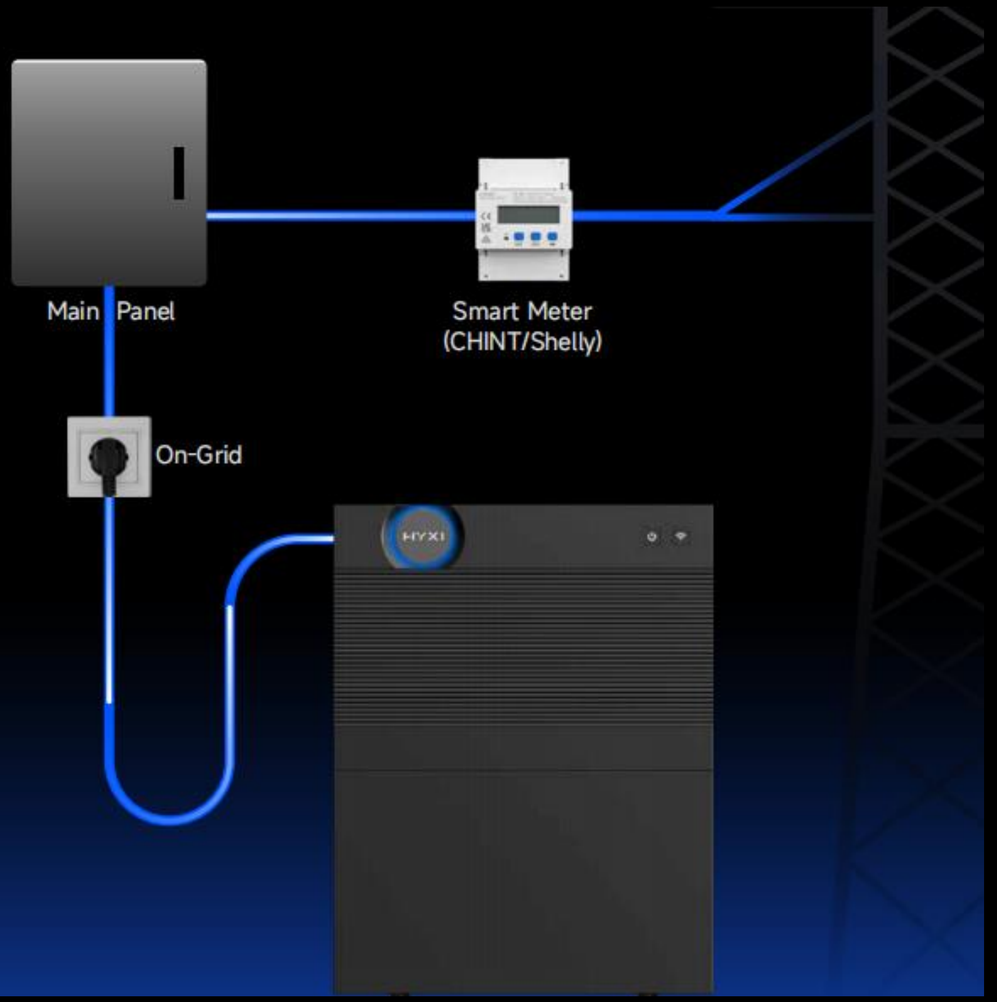
Supports multiple smart meters with anti-feeding, ensuring all energy generated is used efficiently — no wasted power, no lost savings

CHINT

- P1 Meter
- Smart Plug
- Single-Phase Wireless Smart Meter
- Three-Phase Wireless Smart Meter

Shelly

- Shelly Pro 3EM 120A
- Shelly Pro EM-50



Highlights Overview

Advanced Performance

- 3014Wh large capacity, long battery life with 10000 cycles, 10 years warranty, 15 years design-life
- Charge availble at -20℃
- 3000W bidirectional inverter

Assured Safety

- Three levels of safety protection: early detection of risks, immediate warnings, and automatic triggering of protection mechanisms
- Intelligent Thermal Control
- Automotive-Grade BMS
- Installed Anywhere, unfazed by everything with IP66

User-Friendly Design

- Intelligent Storage That Pays You Back with VPP
- Noiseless Design, operating noise as low as 25dB
- RGB intelligent lighting supported
- Compatible with any existing solar system, no rewiring, no upgrades
- Plug and Grow

Smart Intelligence

- Zero energy waste with smart meter
- Smart AI supported
- Balanced Battery Health

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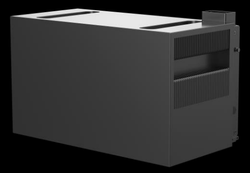
Product Portfolio

AC-Coupled Micro ESS

HYX-MS3000AC



Battery Pack

HYX-MS3000B

Single Phase Wireless Smart Meter

iDW131

Three Phase Wireless Smart Meter

iDW432

P1 Meter

System new Installation			
Model	PN	Description	Is it in the packaging?
HYX-MS3000AC	/	3014Wh battery capacity with 3000W bidirectional Invter integrated	Yes
HYX-MS3000B	/	Scalable battery packs	Yes
P1 Meter	/	retrieves real-time data from home electricity meter	NO，purchase separately, optional
IDW131	/	Chint Single Phase Wireless Smart Meter, monitoring whole-home energy production and consumption in real-time	NO，purchase separately, optional
IDW432	/	Chint Three Phase Wireless Smart Meter, monitoring whole-home energy production and consumption in real-time	NO，purchase separately, optional

Thank You
For Listening

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