

O P E N E N E R G Y F O R A L L

C&I ENERGY STORAGE SOLUTION



About Hoymiles

Hoymiles Power Electronics Inc. (Stock Code: 688032, hereinafter referred to as "Hoymiles") was founded in 2012. It is a high-tech enterprise specializing in the R&D, manufacturing, and sales of photovoltaic inverters, energy storage products and energy storage systems.

Anchored by industry-leading power electronics technologies, Hoymiles has evolved into a global leader in intelligent solar and energy storage solutions through continuous technological innovation and exceptional product performance.

Tier 1

Global Energy Storage Manufacturer*

*BloombergNEF recognized Hoymiles as a Tier 1 Global Energy Manufacturer in 2026.

2,000+

Global Employees

190+

Countries & Regions With Installation



The R&D laboratory has been certified and recognized by internationally accredited testing institutions.



1 Headquarter

Hangzhou, China

4 Regional Offices

Frankfurt, Germany
Dallas, USA
Bangkok, Thailand
São Paulo, Brazil

8 Logistic Centers

Hangzhou, China
Breda, Netherlands
Rotterdam, Netherlands
Los Angeles, USA
Sydney, Australia
Felixstowe, United Kingdom
Monterrey, Mexico
Maceio, Brazil

4 Manufacturing Bases

Hangzhou

- Microinverter, micro-storage, RSD
- Residential PCS

Lishui

- BESS

Haining

- String Inverter/PCS
- Centralized PCS
- BESS

Mexico

- Microinverter

Manufacturing Capacity

The comprehensive manufacturing system ensures the efficient operation, stable production capacity and constant delivery capability.

Global Presence and Rapid Response

4 Manufacturing Bases

Flexibly meeting the product demands of different markets.



Hangzhou



Haining



Lishui



Mexico

Intelligent Manufacturing for Efficient Operation

≥90%

Automation Rate of BESS Manufacturing Lines



Full-process Quality Control

5

Detection Processes & End-to-end ID Traceability



Annual Manufacturing Capacity

3 Million

Units of Microinverters

10GW

High-power PCS

15GWh

Energy Storage Products

Microinverter Product Failure Rate

<1800

DPPM

*DPPM: Defective parts per million

Global Average Delivery Time

3 Weeks

From Order to Delivery

*Forecast data required from customers

3 Days

From Warehouse to Delivery

*Local warehouses in China, Europe, and the United States

C&I Storage Solution

Hoymiles offers all-in-one energy storage systems and other equipment to C&I owners. All products utilize liquid cooling technology, offering superior power density and efficiency and meeting the diverse needs of various C&I scenarios.



All-in-One Hybrid BESS



HoyUltra 128D

All-in-One BESS



HoyUltra 261A

All-in-One MWh-Level BESS



HoyUltra 2000M

AC Switching Cabinet

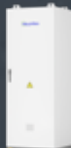


HU-02-ST5-692-04
4-to-1 Combiner



HU-02-ST5-436-02B
2-to-1 Combiner

AC Combiner Cabinet



HU02BCP-04
4-to-1 Combiner

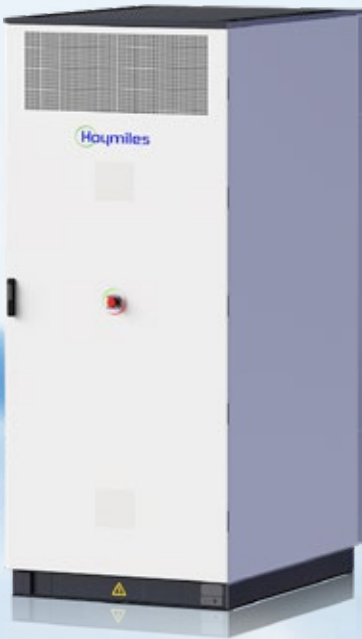


HU02BCP-08
8-to-1 Combiner

C&I All-in-One Battery Energy Storage Cabinet

HoyUltra 261A

- Optional 60 dB ultra-low noise guarantees minimal disruption to daily life.
- No derating at 50°C, full liquid cooling for high output in extreme heat.
- Front-side maintenance enables 35% less floor area for compact installation.



The Next-Gen C&I All-in-One Battery Energy Storage Cabinet

Fully Liquid Cooling Enable Better Application

HoyUltra 261A



Smart Liquid Cooling

Unlock peak efficiency with smart temperature control – boost your energy yield by 1%+.



90.3%

Max. round-trip efficiency

50°C

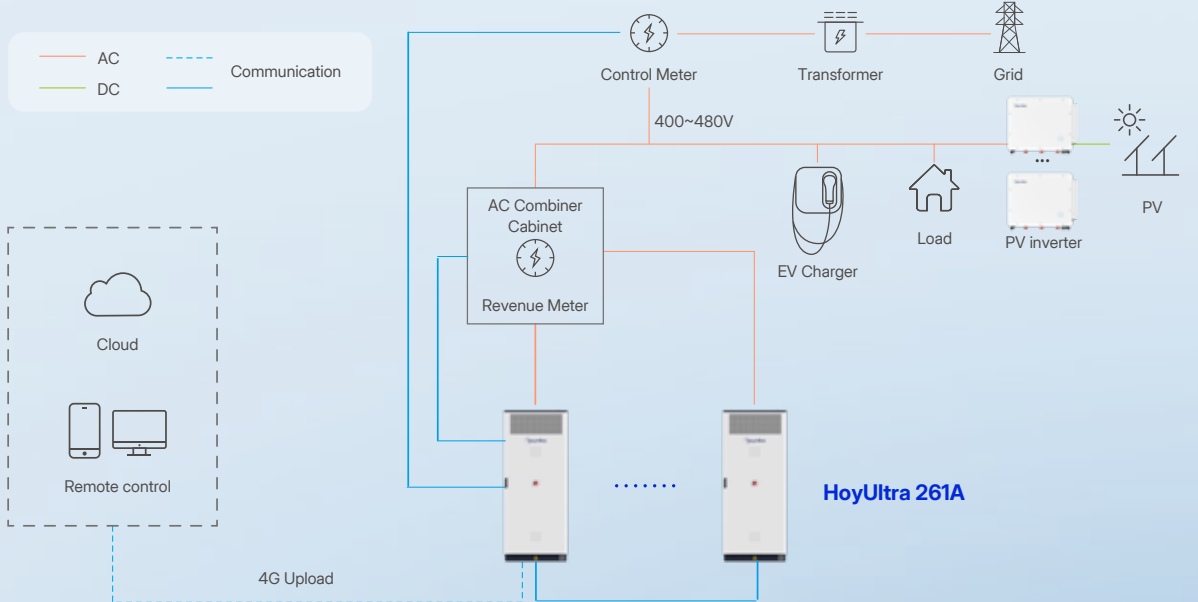
No derating at

30% ↓

Energy consumption



Model	HESS-261-2h(99)	HESS-261-2h(124)	HESS-261-2h
Power	99.9kW	124.9kW	125kW
Capacity/Current	261kWh / LFP 314 Ah		
Weight/Dimensions	<2800kg / 1030*2450*1400mm		

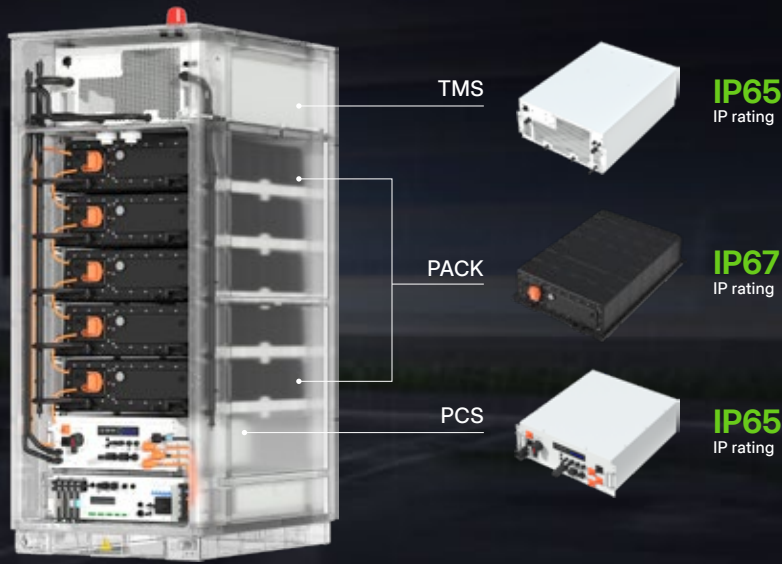


All-Round Adaptability

Unshaken by extreme conditions, delivering 15+ years of rugged reliability.



IP55
Overall IP rating



Quiet as a Whisper

Less than 60dB of noise, so sensitive sites stay undisturbed while the system runs at peak performance.



< 60dB

No noise interference in sensitive environments
Efficient heat dissipation channel design for liquid cooling unit

ISO 3744:2010

Tested by Zhejiang Electrical Safety Quality Inspection Center
Authoritative noise test conducted according to stringent standards



Comprehensive Safety

With dual fire safety management, we safeguard your station against all risks.



Cabinet level

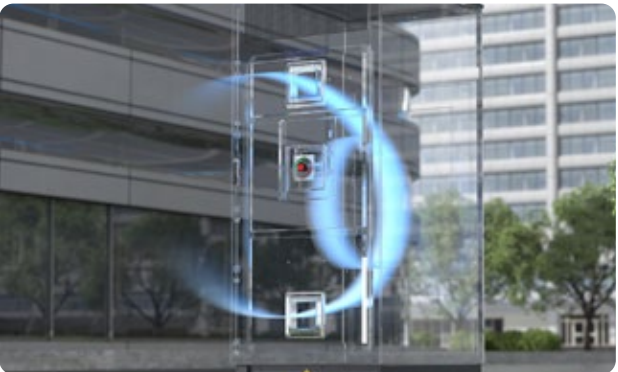
Smoke and temperature sensing device



Non-stored-pressure fire extinguishing device



Interlocked exhaust ventilation, Reducing gas concentration

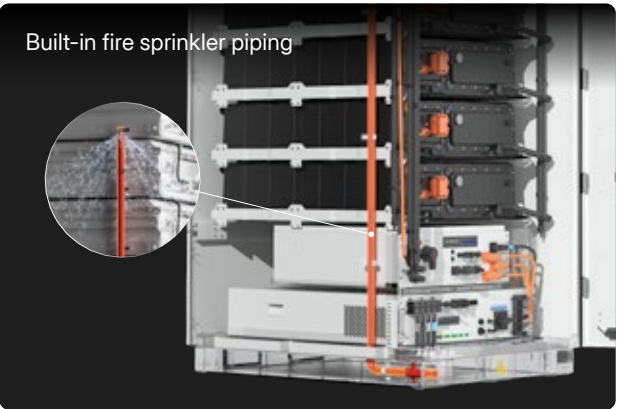


Pressure exceeding safety limit, Whole compartment explosion relief



Ultimate level

Built-in fire sprinkler piping



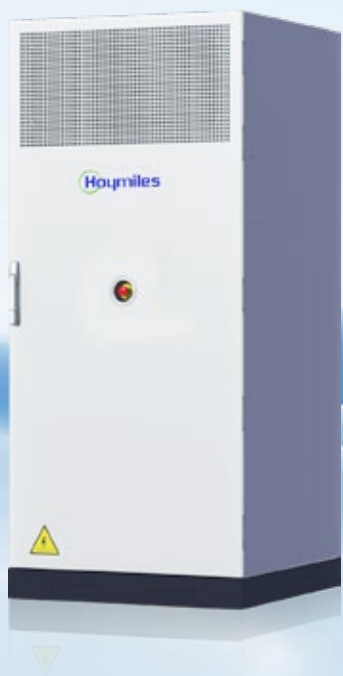
Quick-connect fire protection piping
Immersion type of water fire suppression



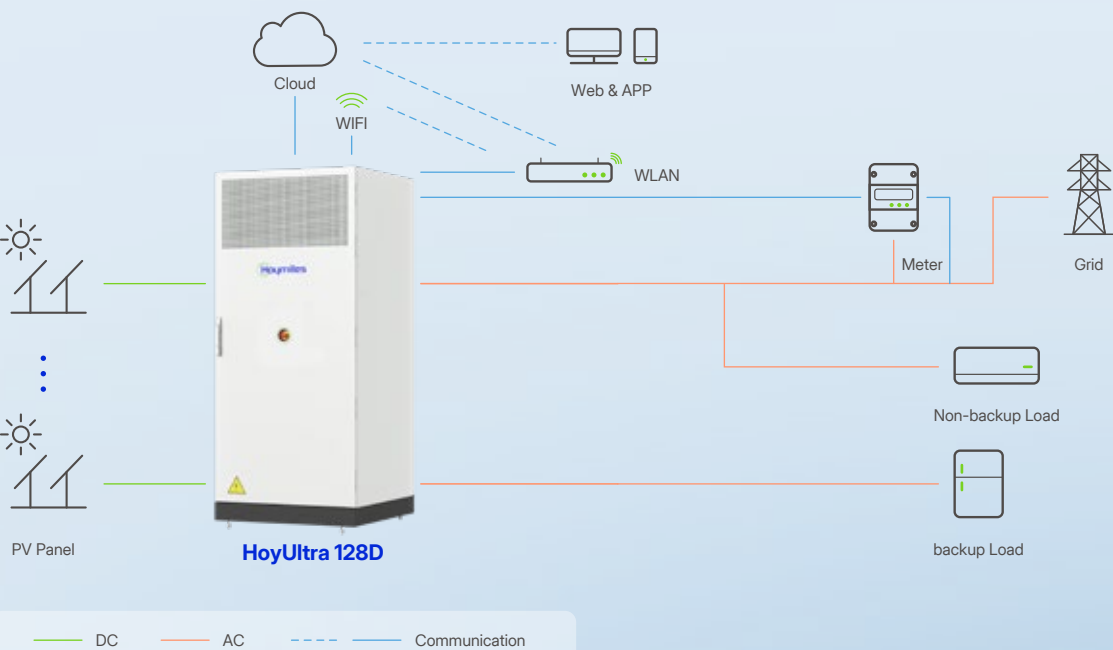
C&I All-in-One Hybrid Battery Energy Storage Cabinet

HoyUltra 128D

- True plug-and-play, redefining installation experience
- PV-storage integrated design for compact and efficient deployment
- Full-chain liquid cooling for higher system stability and longer battery life
- DC-coupled architecture supports up to 2× PV oversizing for higher PV yield



Model	HESS-128-2h	Capacity/Current	128kWh / LFP 314 Ah
Power	50kW	Weight/Dimensions	1600kg / 1000*2270*1000mm



True All-in-One, Higher System Returns

Integrated DC-coupled architecture, supports 2× rated PV input, improving system efficiency and PV yield.



5 in 1
Highly Integrated



Fewer Devices



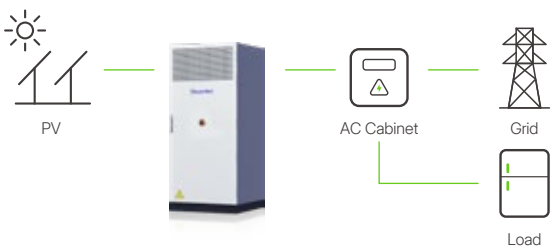
Fewer Conversions



Higher Returns

HoyUltra 128D DC-Coupled C&I ESS Solution

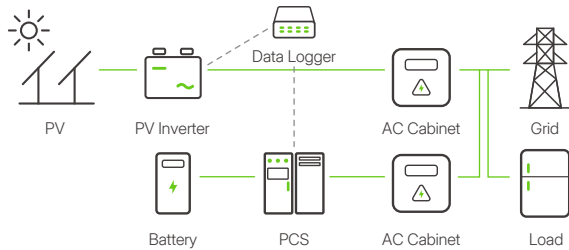
Simpler: From 6 devices to **2**



Higher Efficiency: System round-trip efficiency increased by approx. **2%**

Traditional AC-Coupled C&I ESS Solution

More Complex: Requires **6** devices



More Devices



Higher Losses



Higher Initial Investment

True Liquid Cooling, More Stable and Controllable

Full-chain liquid cooling from battery to PCS ensures long-term stable system operation.

Full-Chain Liquid Cooling

Intelligent thermal management across the full system

More Stable

Extended lifetime of core components

More Controllable

Optimized system performance across the full lifecycle



Battery Liquid Cooling



Lower degradation for longer battery life

PCS Liquid Cooling



Better heat dissipation for higher stability

Truly Convenient, Simplified Deployment

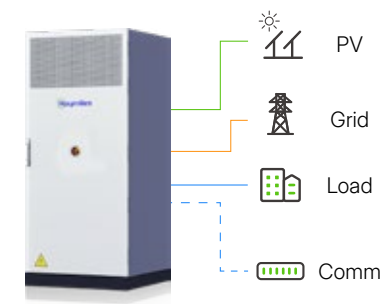
Fast On-site Delivery

Positioning



Crane/Forklift positioning

Basic Wiring



Connect PV / Grid / Load / Comm

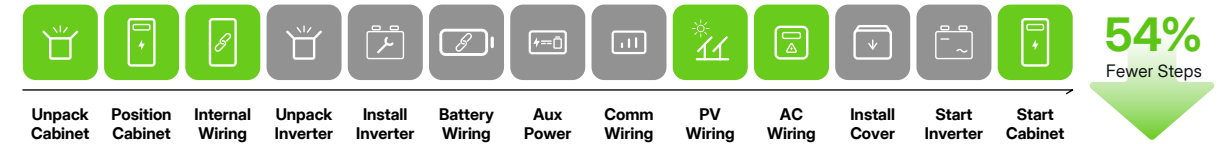
Power-on



One-click start quick commissioning

HoyUltra 128D: 6 Key Steps

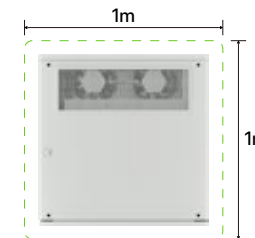
Traditional Process: 13 Steps



Flexible Deployment in Limited Space

1m² Footprint

Compact design with an approx. 1 m² footprint, Suitable for space-limited sites



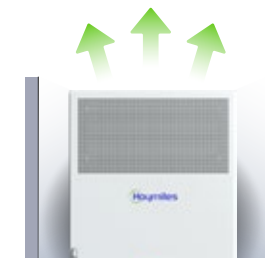
Built-in Inverter

Only 0.6 m side clearance required, compared with 1.3 m in traditional solutions



Top Air Outlet

No rear cooling clearance required; supports back-to-back or wall-mounted installation



15 Units / 40HQ

Optimized cabinet volume allows 15 units per 40HQ container for more efficient transport



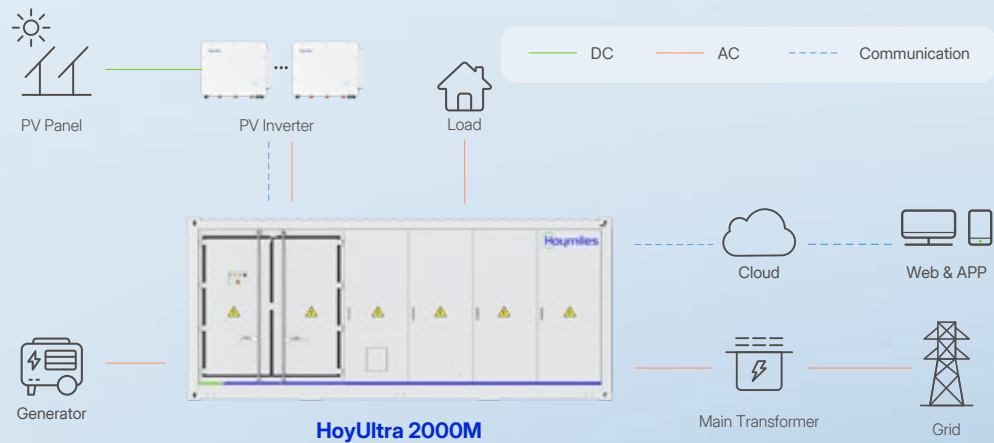
C&I All-in-One MWh-Level Battery Energy Storage Cabinet

HoyUltra 2000M

- Optional PV inverter and generator integration, flexible adapting to microgrid.
- 6-in-1 space-saving design with BESS, BMU, PCS, STS, thermal, fire integrated.
- Built-in retail tariffs and PV-first algorithms adapt modes maximizing returns.
- 400 V / 690 V / 800 Vac multi-voltage coverage for flexible customization, transformer-free design, and lower initial investment.
- Flexible deployment for simplified layout and easier O&M.



Model	HESS-2088-2h	HESS-2610-2h	HESS-2610-4h	HESS-2088-4h	HESS-2505-2h	HESS-2505-3h	HESS-2505-4h
Rated Power	1MW	1.25MW	0.625MW	0.480MW	1.29MW	0.86MW	0.624MW
Capacity	2.088MWh	2.61MWh	2.61MWh	2.088MWh	2.505MWh	2.505MWh	2.505MWh
Cell	LFP 314 Ah						
Rated Voltage	400Vac				690/800Vac		
Weight	27.5t	28t	28t	27.5t	28t	28t	28t
Dimensions	6058*2431*2591mm						



All-in-One Design

The compact, 6-in-1 design fits into any space and slashes installation time, getting your system up and running with zero hassle.



Intelligent Temp Control

-30°C to 55°C Operation, No Derating at 50°C.



Low Temp: Heating Module
Built-in Heating for Stable Battery Operation



High Temp: Liquid + Air Cooling
Active Liquid Cooling Rapidly Cools the Battery

Stable Power Supply

Establishes voltage and frequency, supports VPP and Black Start.



Voltage Support

Stabilizes system voltage and supports weak-grid operation

Frequency Support

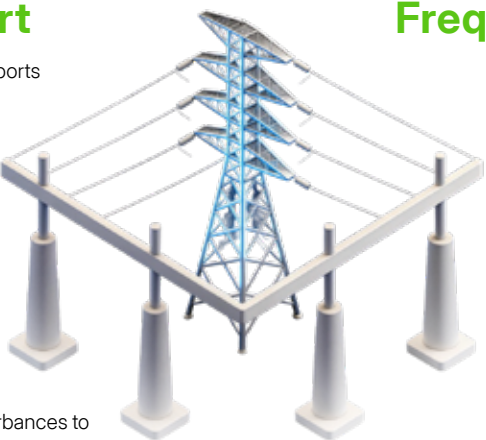
Stabilizes system frequency and enhances grid resilience

Oscillation Suppression

Suppresses fluctuations and disturbances to improve dynamic stability

Black Start

Helps restore power supply after grid outage



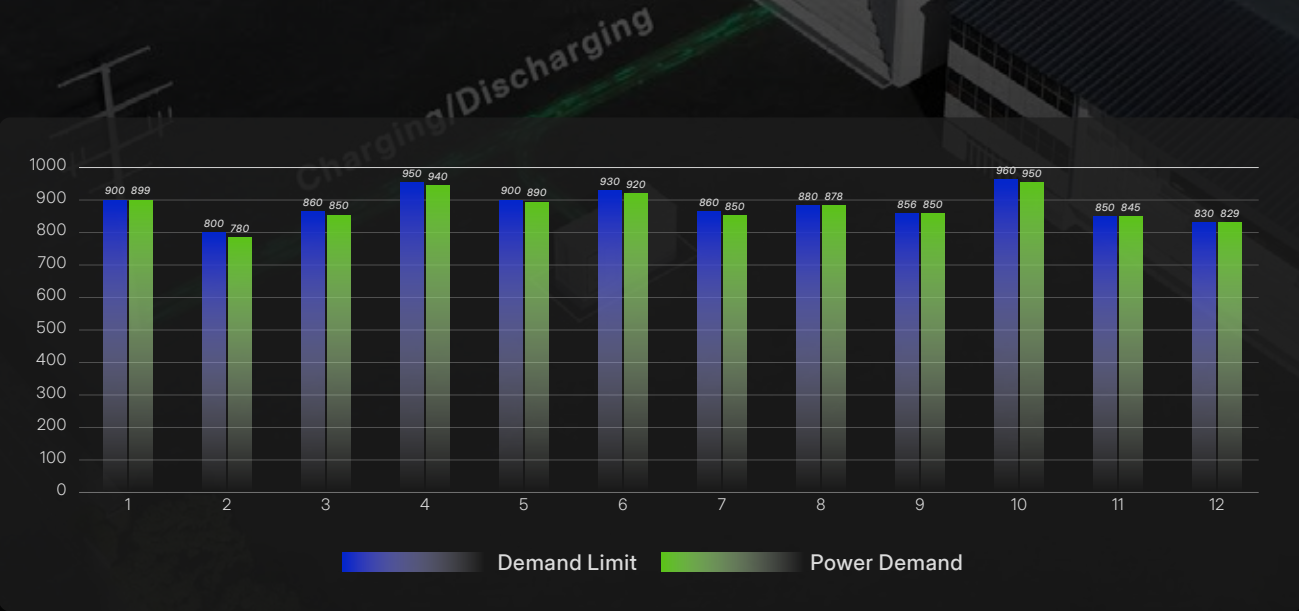
Multi-Power Integration

Easily integrate solar, storage and diesel generators to build a resilient microgrid that adapts perfectly to any site or energy scenario.

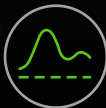


Maximize Financial Returns

Built-in retail tariff strategies and PV-first algorithms automatically adapt system modes to ensure you get the highest possible financial return on every kilowatt.



Lower Demand Charges



Peak Shaving & Valley Filling

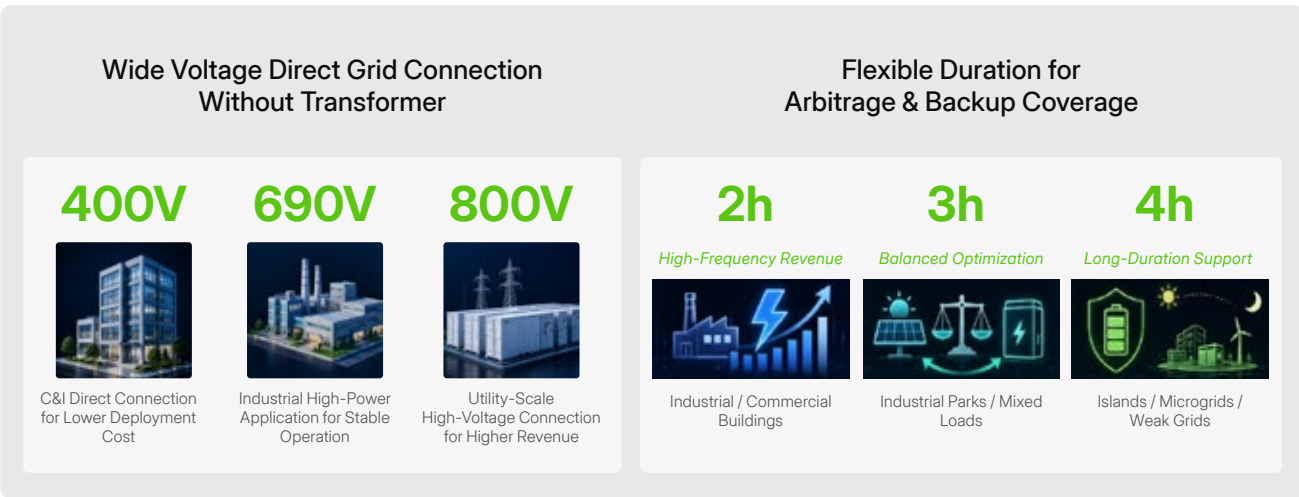


Improve Power Cost Efficiency



Reduce Distribution Capacity Pressure

Multi-Voltage, Multi-Duration Flexibility



AC Switching Cabinet



- Supports both active and passive on/off-grid switching modes for flexible control.
- Delivers $\leq 20\text{ms}$ on/off-grid switching, ensuring zero power interruption for critical loads.
- Anti-reverse monitoring on AC and diesel generator sides eliminates backfeed risks.
- Independent metering of total and PV energy makes every watt trackable.

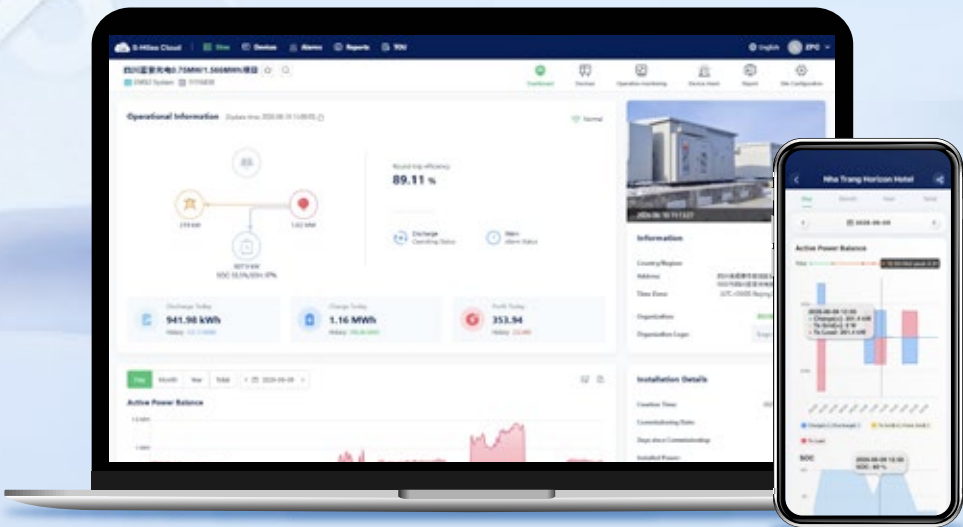
AC Combiner Cabinet



- Direct AC parallel output across cabinets eliminates complex topologies, simplifying grid layouts.
- Fully integrated switches, breakers, fuses, and smart meters ensure solid safety.
- Effortless installation with integrated design simplifies on-site setup and speeds deployment.
- Minimizes on-site wiring, slashing material and labor costs, accelerating project commissioning.

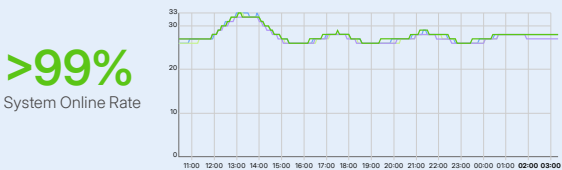
Intelligent O&M

Web and app collaboration enables monitoring, diagnostics, remote O&M, and data analytics to improve system efficiency.



Real-Time Monitoring

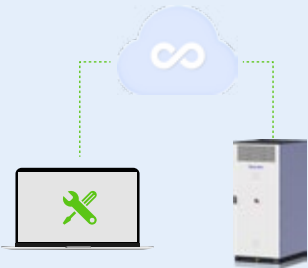
Real-time device monitoring and historical analysis



Intelligent Diagnostics

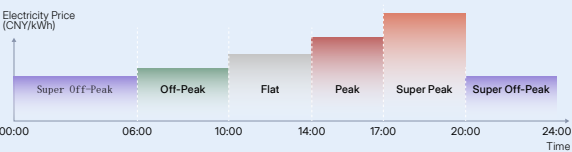
Real-time alarm tracking and historical review

80%
faults support cloud-based diagnosis and handling



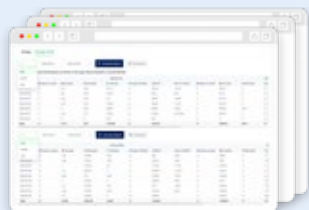
Full TOU Coverage

Supports TOU tariffs and charge/discharge strategy settings



Data Analytics

Multi-dimensional report statistics
Data-driven returns



Success Cases

Standalone ESS



Location: Estonia **Capacity:** 1,000 kW / 2,150 kWh

Product: HoyUltra series **Scenario:** Factory

Highlights: Power trading, fast response to price volatility

Standalone ESS



Location: Slovenia **Capacity:** 200 kW / 430 kWh

Product: HoyUltra series **Scenario:** Factory

Highlights: Peak-valley arbitrage

Standalone ESS



Location: Slovenia **Capacity:** 500 kW / 1,044 kWh

Product: HoyUltra series **Scenario:** Shopping mall

Highlights: Limited installation space, fast response to price volatility

PV + ESS + EV Charging



Location: Foshan, Guangdong **Capacity:** 375 kW / 783 kWh

Product: HoyUltra series **Scenario:** Chemical plant

Highlights: Peak-valley arbitrage, high temperature operation

Success Cases



Location: Malaysia **Capacity:** 625 kW / 1,305 kWh

Product: HoyUltra series **Scenario:** Concrete production facility

Highlights: Hoymiles microinverter, lower energy cost



Location: Netherlands **Capacity:** 250 kW / 522 kWh

Product: HoyUltra series **Scenario:** Stock farming

Highlights: Extreme cold climate, continuous power availability



Location: Wenzhou, Zhejiang **Capacity:** 250 kW / 522 kWh

Product: HoyUltra series **Scenario:** Charging station

Highlights: Peak-valley arbitrage, high temperature operation



Location: Chengdu, Sichuan **Capacity:** 250 kW / 522 kWh

Product: HoyUltra series **Scenario:** Community

Highlights: Ultra-quiet operation



Location: Chengdu **Capacity:** 400 kW / 860 kWh

Product: HoyUltra series **Scenario:** Factory

Highlights: Three-phase balancing, overload mitigation



Location: Malaysia **Capacity:** 625 kW / 1,305 kWh

Product: HoyUltra series **Scenario:** Resort

Highlights: Intelligent energy switching, Tropical island climate



Location: Chengdu, Sichuan **Capacity:** 250 kW / 522 kWh

Product: HoyUltra series **Scenario:** Community

Highlights: Ultra-quiet operation



Location: Chengdu, Sichuan **Capacity:** 750 kW / 1,566 kWh

Product: HoyUltra series **Scenario:** Factory

Highlights: Peak-valley arbitrage, improved renewable consumption

OPEN ENERGY FOR ALL

HOYMILES

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