



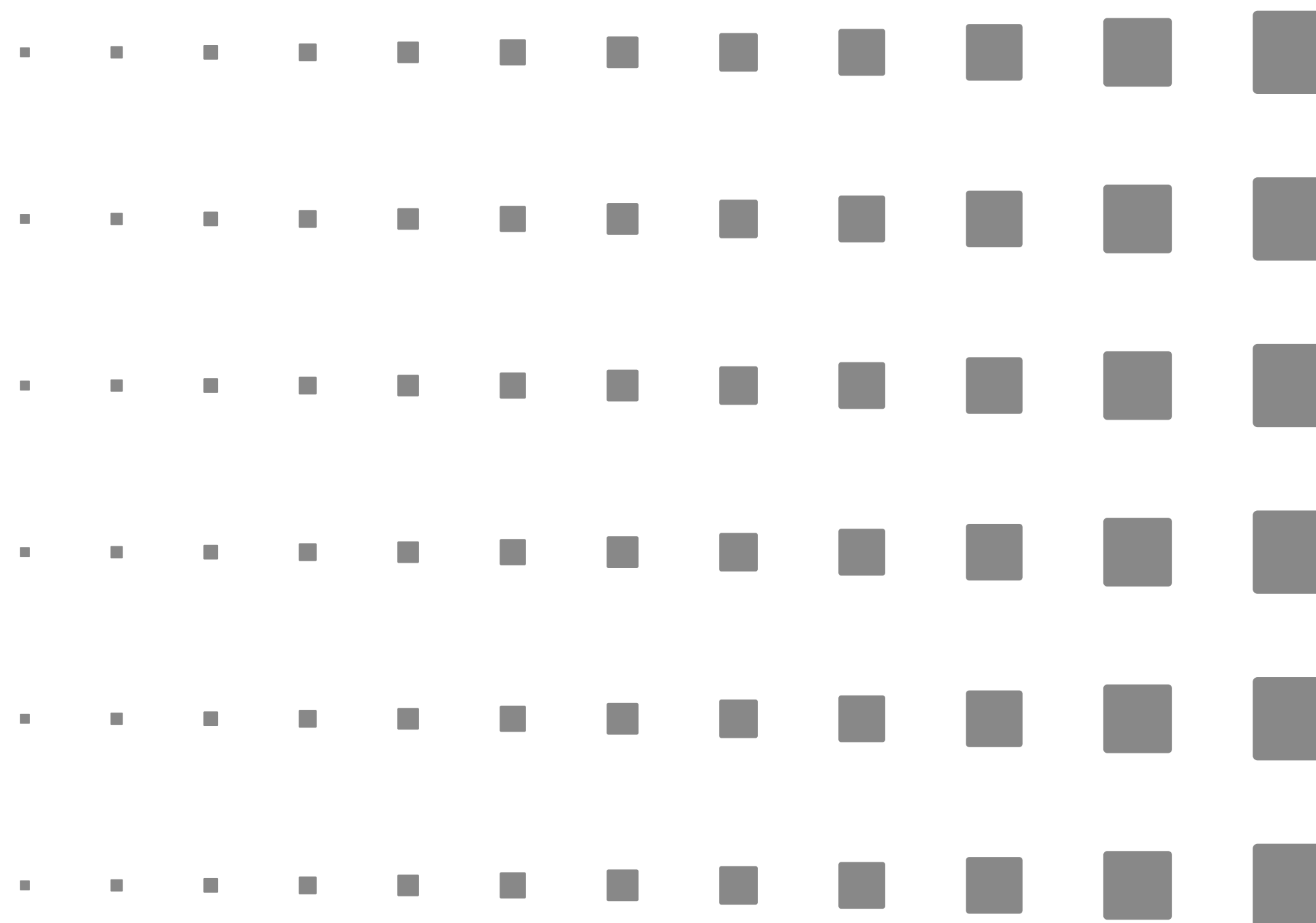
EverVision

Energy
Storage
Brochure
Content

Own the Light . Empower Life

www.evervisioness.com

PVDG BESS · Cabinet / Container · All-In-One ESS · LiFePO₄



EverVision - Energy Solution Integrator

Dedicated to New Energy



From hardware to software, from single units to microgrids, providing "PV-ESS-Diesel-Load" integrated capabilities.



2021

Founded in



70+

Team Members



50+

Countries & Regions



500MWh+

Annual Production Capacity



Parent Company & Brand

Shenzhen Tomorrow Vision Energy Technology Co., Ltd.
EverVision is its brand dedicated to new energy.



Founded

Founded in 2021
Focusing on full-process sales and service of Battery Energy Storage Systems (BESS).



Core Positioning

Energy Solution Integrator
(System-level service beyond a single hardware supplier)



Business Scope

Residential ESS, C&I ESS
Comprehensive green energy integration and microgrid construction.



PV-ESS-Diesel-Load Integrated



System-level Solution



Microgrid Capability



Safe, Reliable & Efficient



Smart Monitoring & Cloud Platform



Full-process Service & Support



Technology DNA from BYD & Huawei

15+ Years of Industry Heritage

“Many manufacturers have hardware; EverVision's core difference lies in building 'Thinking Energy System'.”



Top-tier Tech Team

Core R&D team from BYD and Huawei with an average of 15+ years of experience, possessing deep expertise in power electronics and battery management.



3S Integration

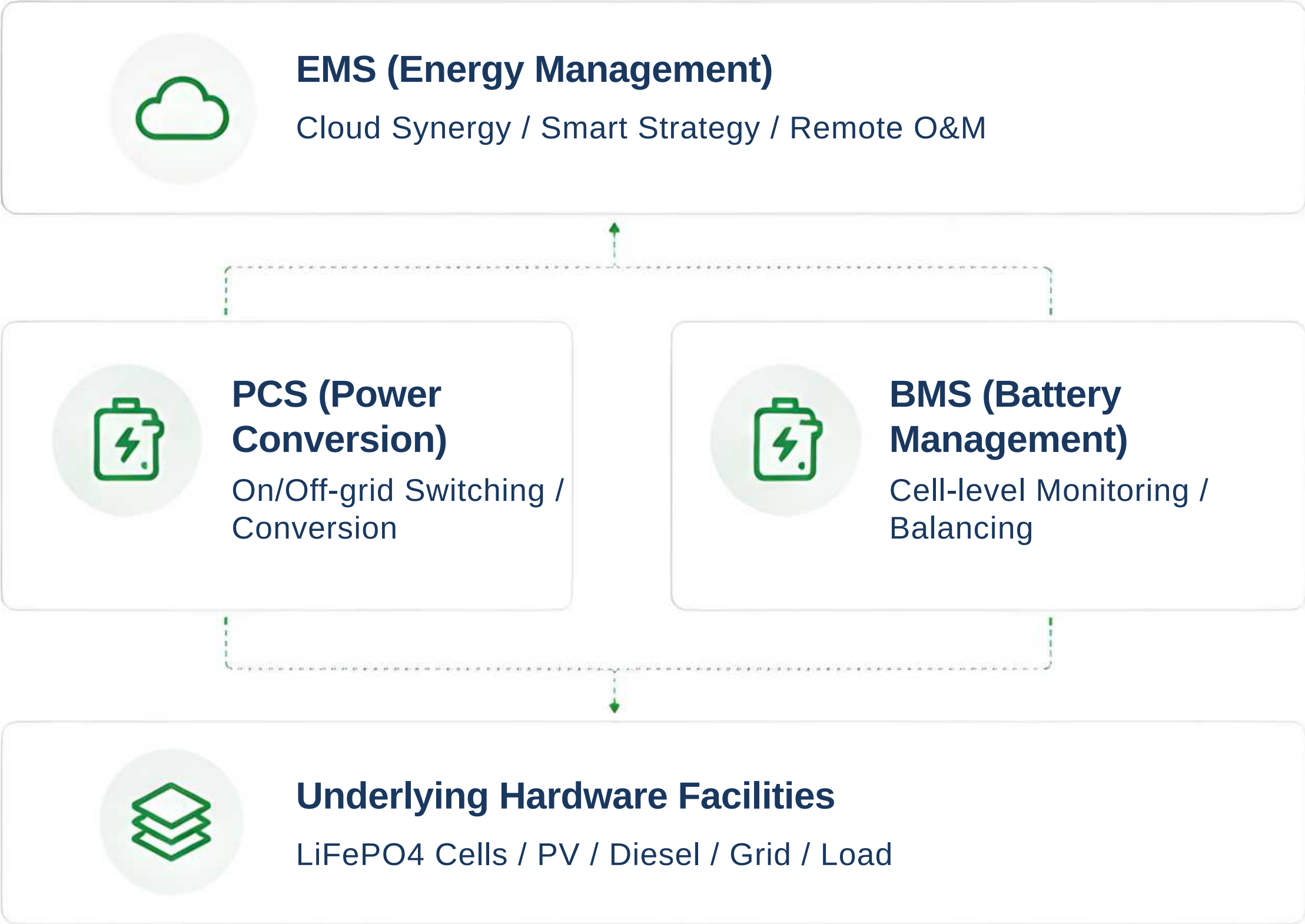
Fully mastering BMS (Battery), EMS (Energy), and PCS (Power Conversion) core technologies. Self-developed software is our core moat.



Full-Protocol Interconnection

Seamless integration from underlying hardware to the cloud platform with millisecond response, greatly enhancing system safety and stability.

3S Integration Core Architecture



Self-developed Core Technology

Full-stack R&D with independent IP



Millisecond-level Response

Real-time control & high-efficiency operation



High Compatibility & Scalability

Open architecture, easy integration



Safety & Reliability First

Multi-layer protection, stable and durable

Sustained Reliability Backed by Tier-1 Supply Chain & International Certifications



Cell Route

- Primarily **LiFePO4**, featuring intrinsic safety and long cycle life.
- Utilizing Tier-1 automotive-grade cells like **REPT 314Ah Wending®** and **EVE LF**.
- Open to discussing **Sodium-ion** applications for extreme cold environments.



International Certifications

- Strictly adhering to international safety and quality standard systems.
- Covering core certifications including **CE, IEC, and UN38.3**.
- Ensuring compliant operation and ultimate safety in harsh environments.



Warranty Commitment

- Residential ESS: **5 years or 8,000 cycles** (capacity retention ≥80%).
- C&I ESS: **10-year warranty** for the battery system.



Supply Chain Advantages

- Backed by Tier-1 cell manufacturers and deep new energy industry resources.
- Strong risk resistance and system cost control capabilities.
- Ensuring **stable supply** and **rapid delivery** on a global scale.



Certified for Global Markets
Our products comply with the highest international standards.



UN38.3



UL1973



TÜVRheinland®



ISO 9001



ISO 14001



RoHS

From Cell to Cloud: Building Complete Energy Integration Capabilities



Hardware Layer



Cells & Battery Packs
High-safety LiFePO₄



PCS (Power Conversion)
Efficient conversion & grid support



PV-ESS-Diesel Cabinets
Highly integrated, modular design



Comprehensive Equipment
Heat pumps, PV, wind, EV chargers



Control Layer



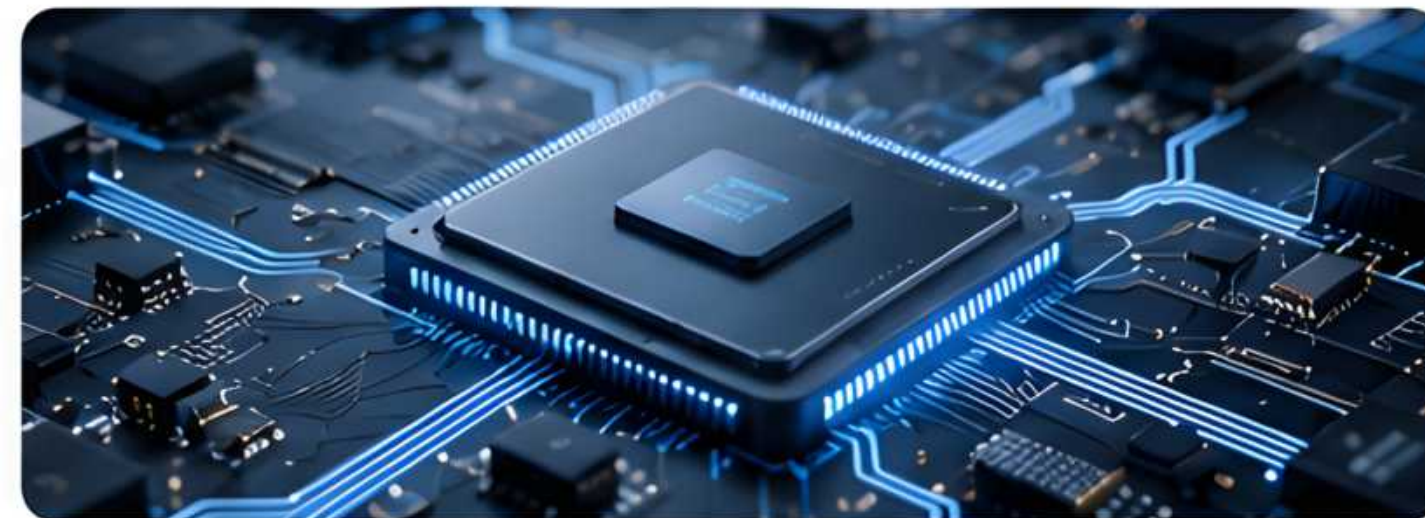
Self-developed BMS
Cell-level management, 15mV accuracy



Self-developed EMS
Smart strategy & multi-energy dispatch



STS (Static Transfer Switch)
Seamless on/off-grid switching ($\leq 10\text{ms}$)



Platform Layer



Energy Cloud Platform
Real-time monitoring & visualization



Smart Strategy Dispatch
Auto-run optimal strategies by season



Full-Lifecycle O&M
Alarm tracking, health & revenue stats



AI & OTA Upgrades
Evolving energy brain & carbon tracking



Hardware is the **foundation**, software is the **brain**, integration is the **value**



Safety First
Built-in Protection



High Integration
All-in-One Design



Intelligent Operation
Smarter Energy



Global Compatibility
Multiple Scenarios



Reliable Support
Full Lifecycle Service

Complete Lithium Battery Product Matrix from Residential to Megawatt Scale



Residential
ESS

Balcony/Portable, 5kW/5.2kWh, 5kW/10kWh, 12kW/16kWh All-in-One

Highly integrated, plug-and-play, perfectly suited for off-grid power supply for families and nomadic/remote residents.



C&I
ESS

25kW/52kWh, 30kW/65kWh, 50kW/100kWh, 60kW/120kWh (Air-cooled), 125kW/261kWh (Liquid-cooled)

Flexible modular design, meeting peak shaving and backup power needs for industrial parks and commercial buildings.



Utility-Scale
ESS

500kW/1 MWh, 750kW/1.5MWh, 1MW/2MWh

Large-scale PV-ESS-Diesel integrated solutions, tailored for mining areas, large microgrids, and grid-side peak shaving and frequency regulation.



Core Advantage:

- All products use high-safety LiFePO4 cells; support parallel connection for seamless expansion.
- Perfectly suited for mining areas, industrial parks, remote settlements, and emergency power supply.



Intelligent EMS Platform

The Brain Behind Every Energy System

Self-developed EMS/BMS platform enabling real-time monitoring, optimization and remote control.



Real-time Visualization

Master PV-ESS-Grid-Diesel-Load energy flows on one screen.



Remote O&M

Track device status, alarms, fire safety, and communication.



Data Auditing

Precise statistics on generation, discharge, load, and revenue.



Multi-terminal Access

Support 4G/WiFi/Bluetooth via Cloud platform and mobile APP.

One Platform, Complete Energy Control



PV



EMS



ESS



Heat Pump



Load

Monitor in Real-time | Optimize Intelligently | Control Precisely | Operate Safely

Compatible Devices



PV



ESS



Heat Pump



EV Charger



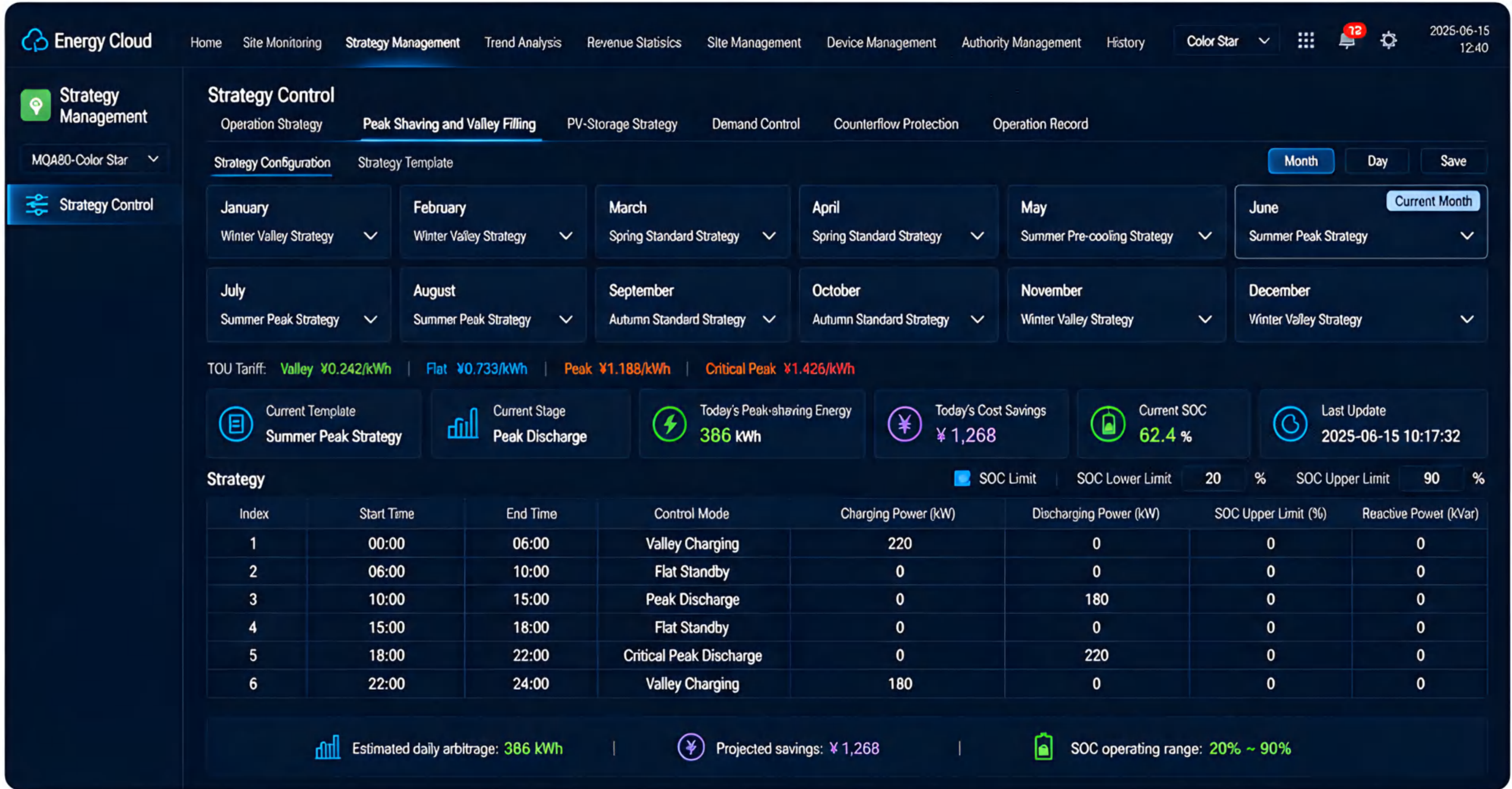
Generator



Grid

Auto-Switching Optimal Strategies by Season, Month, and Peak-Valley Spread

Smart Strategy Engine I: Peak Shaving & TOU Tariff Configuration



TOU Configuration

Flexibly define Valley, Flat, Peak, and Critical Peak periods and tariffs to precisely match grid billing rules.



Monthly Templates

12-month distinct templates adapt to seasonal load changes with fully automatic seamless switching.



Fine Control

Tabular definition of charge/discharge power and SOC limits for each period, ensuring battery safety and lifespan.



Real-time Revenue

System calculates daily peak-shaving energy and savings in real-time, making economic benefits visible.



Following the local power market liberalization trends, we help commercial and industrial (C&I) users cut electricity costs and generate profits through **peak-valley price arbitrage**.



Owned Production Lines + Full-Process Delivery = Scalable Replication



Advanced Manufacturing

Integrated Assembly

System Testing

Quality Assurance

Fast & Reliable Delivery



Standardized & Modular

Owned production lines ensure high-standard manufacturing; system-level modular design significantly reduces on-site construction complexity and error rates.



Ultimate Delivery Efficiency

Highly integrated product forms bring significant time and cost advantages:

-70%

Installation Time

-80%

On-site Wiring



Scalable Support Capability

Equipped with complete production capacity and full-process delivery assurance to support everything from single pilot projects to national-scale rollouts.



High Quality

Rigorous quality control throughout the entire process



Short Lead Time

Efficient production planning and rapid delivery



Lower Total Cost

Standardization and scale bring lower CAPEX & OPEX



Scalable Replication

Proven model for fast expansion and localized delivery

Product Catalog

Comprehensive Clean Energy Solutions
for a Sustainable Future

BALCONY ESS

Plug & Play
Smart Energy

P.03



RESIDENTIAL ESS

Reliable Power
for Every Home

P.04



C&I ESS

Flexible & Scalable
Business Energy Solutions

P.07



SOLAR PANELS

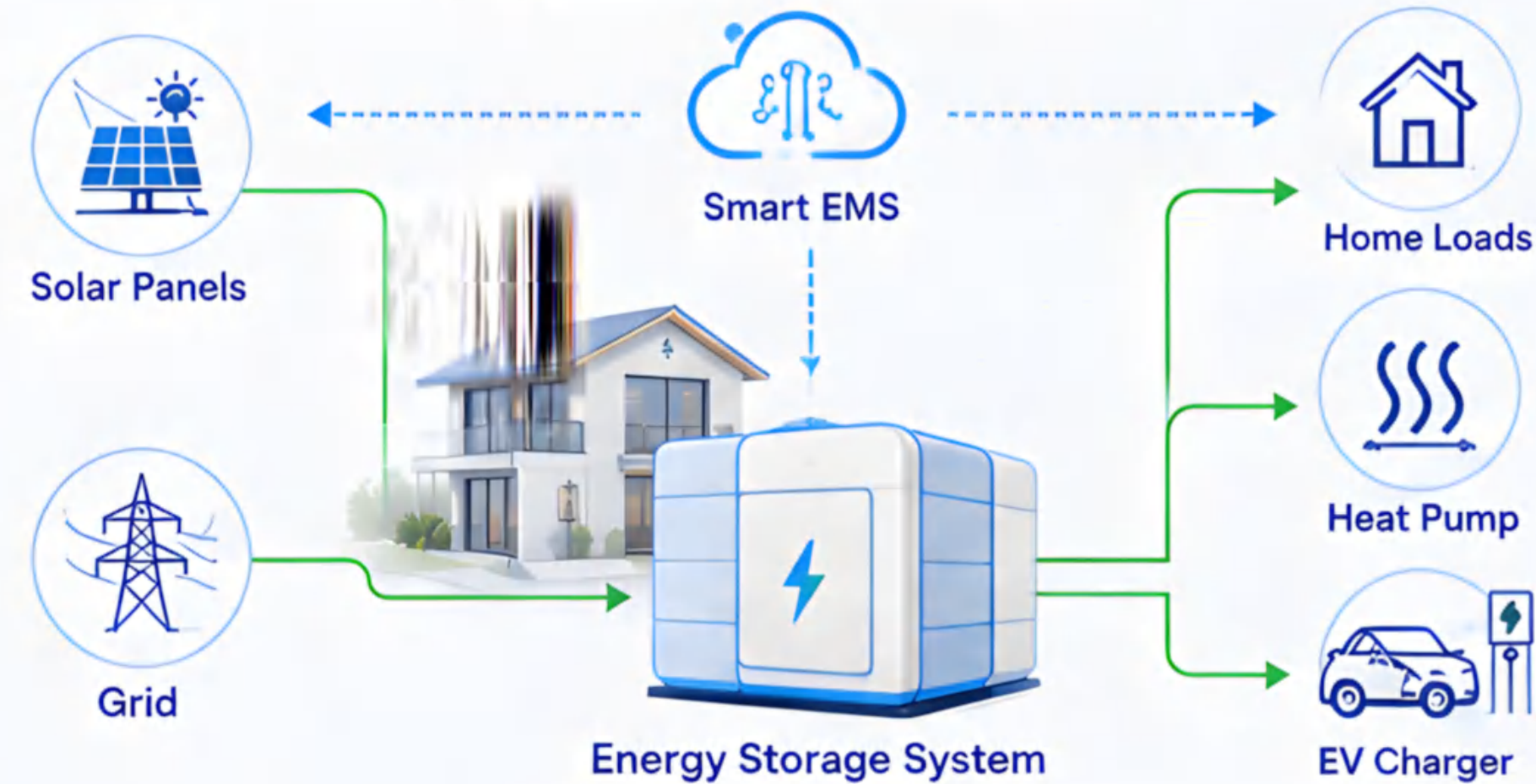
High Efficiency
PV Solutions

P.02



ALL-IN-ONE ENERGY SOLUTIONS

Integrated · Intelligent · Reliable



 Smart EMS

 Safe & Reliable

 Scalable

 Green & Efficient

EV CHARGING

Smart & Fast
EV Charging Solutions

P.05



HEAT PUMP

High Efficiency
Heating Solutions

P.06



UTILITY ESS

Large Scale Energy Storage
for Grid & Utility

P.08



2MWh + 1MW PV-ESS-Diesel CabinPowering Remote Off-Grid Mines

Reliable, efficient, and sustainable power for remote mining operations



Relevance to Global Mining Scenarios

This mature microgrid solution is highly adaptable to remote mining environments worldwide. It effectively reduces fuel transport costs, improves energy security, and supports sustainable and resilient mine operations.



Project Background

- High diesel transport costs to remote mines increase operational expenses.
- Unstable traditional power supply hinders smart mining equipment upgrades and digital transformation.



Solution

- Deployed **PV-ESS-Diesel** integrated cabin microgrid system.
- PV priority supply, ESS peak shaving, and diesel generator as emergency backup.
- Self-developed **EMS** enables seamless on/off-grid switching (< **20ms**).



Key Results

- Long-term OPEX reduced by **30% – 60%**.
- Power reliability improved to > **99.9%**.
- Reduces carbon and pollutant emissions, achieving eco-compliance and easy O&M.

System Configuration



1MW
PV



2MWh
ESS



Diesel
Generator



Integrated Cabin
System

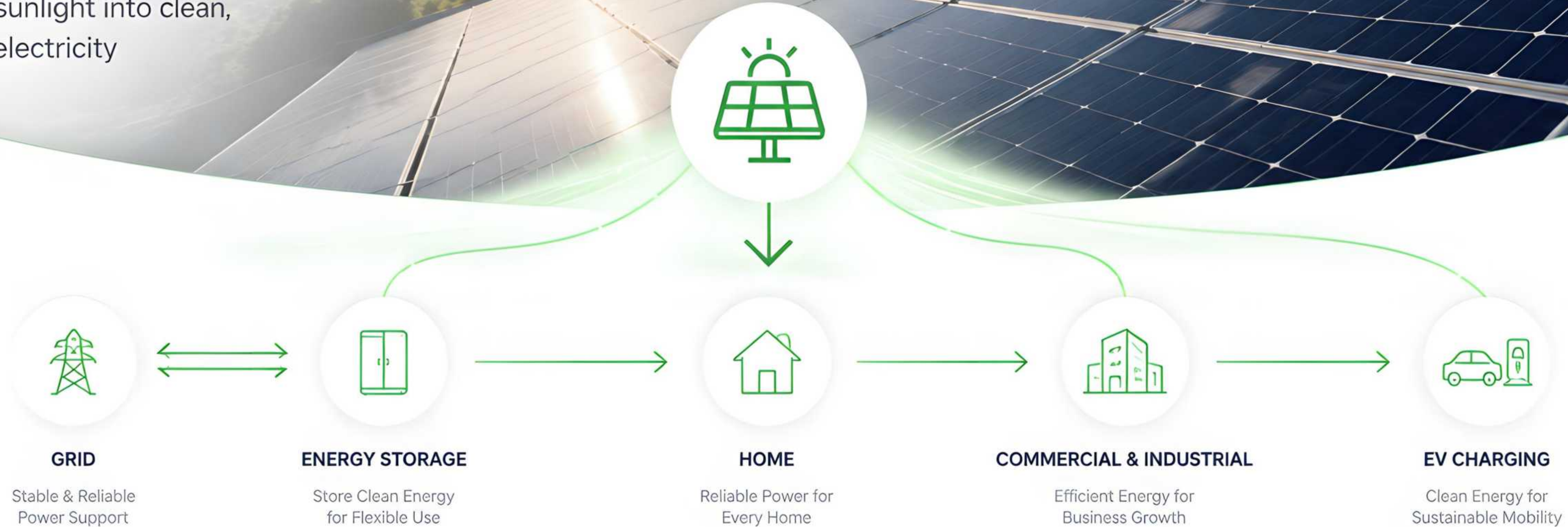


EMS
Intelligent Control

Solar Energy

The Starting Point of the Energy Ecosystem

Converting sunlight into clean, distributed electricity



Clean & Renewable

Zero emissions, infinite potential



Cost Effective

Lower electricity cost, higher energy independence



Reliable & Resilient

Powering your life in every condition



Scalable & Flexible

From household to utility scale, designed for growth



Sustainable Future

Building a greener planet for generations

SOLAR PV MODULE

N-TOPCon BIFACIAL MONOCRYSTALLINE MODULE

High Efficiency • High Power • High Reliability
Ideal for Utility-Scale Power Plants

HIGH EFFICIENCY
N-TOPCon technology ensures higher module efficiency and stronger power generation.

HIGH RELIABILITY
Advanced encapsulation and strict quality control ensure long-term reliability.

PID RESISTANCE
Excellent Anti-PID performance guarantees via optimized process and material control.

LOW-LIGHT PERFORMANCE
Excellent performance in low-light environment.

DURABILITY
High salt mist and ammonia resistance certified by TUV NORD.

EL FULL INSPECTION
Dual-stage 100% EL inspection.



IEC61215 / IEC61730 / IEC61701 / IEC62716 / IEC62804 / DE93315506



Electrical Specifications (STC*)

Model	RM-560-600W-182M/144TB (590W)	RM-600-630W-182R/132TB (625W)
Maximum Power (Pmax/W)	590	625
Open Circuit Voltage (Voc/V)	53.41	50.2
Short Circuit Current (Isc/A)	13.89	17.53
Maximum Voltage (Vmp/V)	45.28	42.2
Maximum Power Current (Imp/A)	13.06	16.49
Module Efficiency (%)	23.22	23.32

*STC: Irradiance 1000W/m2, Cell Temperature 25 C, AM=1.5

Mechanical Specifications

Number of Cells	144 (6x24)	132 (6x22)
Dimensions (LxWxH)	2279 x 1134 x 30 mm	2382 x 1134 x 30 mm
Weight	32.0 kg	33.5 kg
Front Glass	2.0 mm High Transmission, AR Coated	
Frame	Anodized Aluminum Alloy	
Junction Box	IP68, 3 Bypass Diodes	
Output Cable	4.0 mm2, (+) >=1200mm, (-) >=1000mm (Length can be customized)	
Connector	MC4 Compatible	
Mechanical Load	Front Side 5400 Pa / Rear Side 2400 Pa	

Operating Conditions

Maximum System Voltage	1500V DC
Operating Temperature	-40 C ~ +85 C
Maximum Series Fuse Rating	30 A
Power Tolerance	0 ~ +3%

Packaging Configuration

Modules Per Pallet (pcs)	37	30
Modules Per 40ft (HQ) Container (pcs)	740	620
Pallets Per 40ft (HQ) Container (pcs)	20	20
Packaging Box Dimensions (LxWxH)	2386 x 1140 x 1260 mm	
Packaging Box Gross Weight	1270 kg	

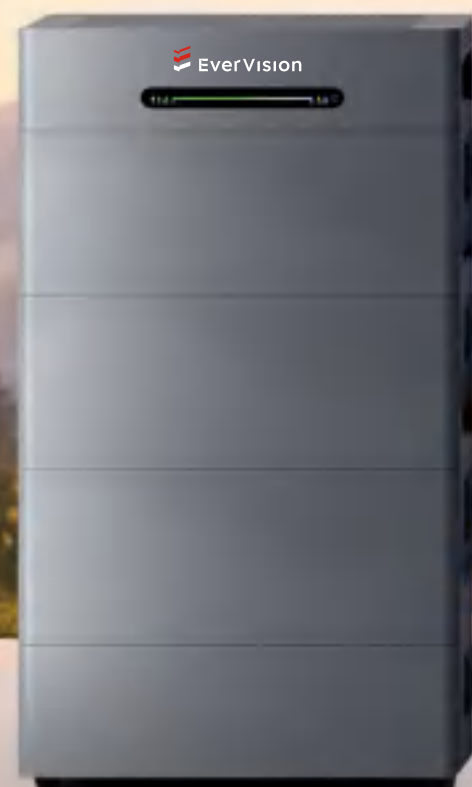
*Specifications are subject to change without notice.

PRODUCT CATALOGUE

Reliable Energy Storage Solutions
for a Sustainable Future



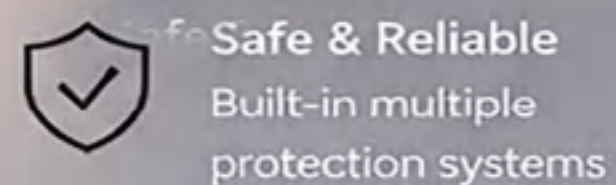
EV-RAY-2.4
Plug-in Stackable
Hybrid Storage System



EV-RAY-2.5
Plug-in Stackable
Hybrid Storage System



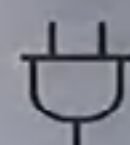
EV-MICRO-800
Micro Inverter
High Efficiency & Reliable



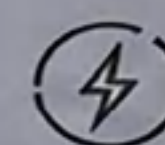
Safe & Reliable
Built-in multiple
protection systems



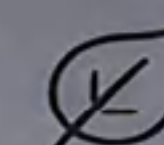
Flexible Expansion
Modular design
scalable to your needs



Plug & Play
Easy installation
for quick setup



**Smart Energy
Management**
Intelligent control for higher
efficiency and savings



Green & Sustainable
Clean energy solutions
for a better tomorrow



EV-Ray-2.4

Plug-in Stackable Hybrid Storage System

Innovation for Easy Energy Independence

EV-Ray-2.4 is a compact plug-in hybrid storage system designed for balcony solar, self-consumption and home backup applications. Its modular architecture enables flexible capacity expansion while delivering reliable and efficient energy management for modern households.



2400W Max Input/
Output Power



Stackable design
Up to 6 units & 15.6 kWh



Semi-solid state batteries
offer improved safety



Maximum PV
Input Power 2000W



2000W
Max PV Input



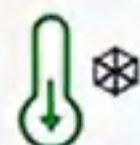
2.4kW
Hybrid Output



Up to 6 Units
Stackable



2.6-15.6kWh
Capacity Range

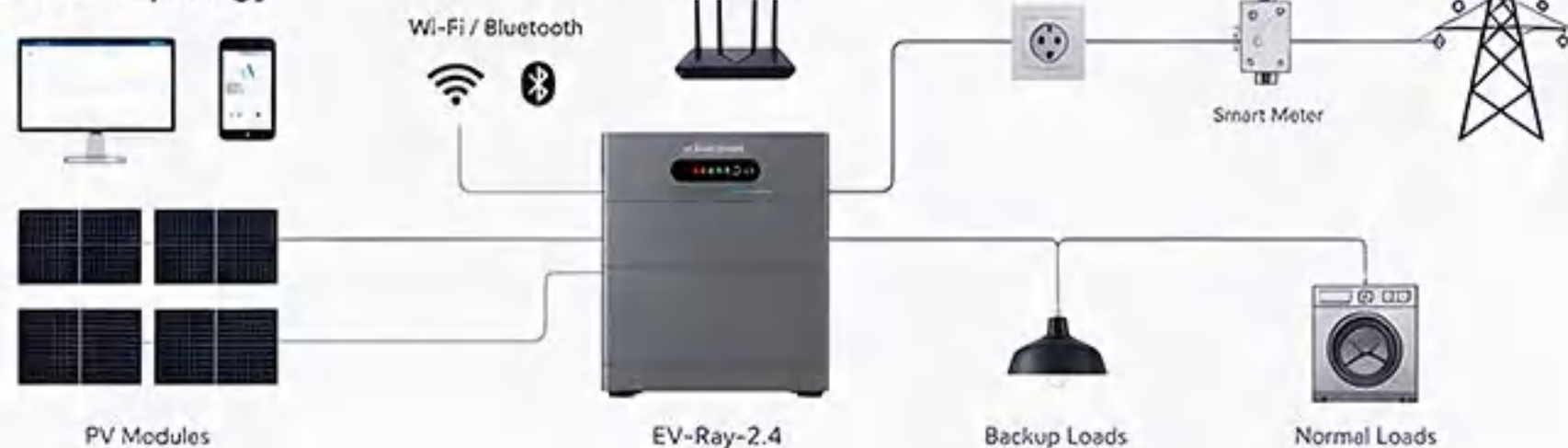


-20°C
Self-Heating



≥8000 Cycles
Long Life

System Topology



Technical Specifications

Hybrid Inverter

PV Input

Maximum Input Power	2*1000W
MPPT Operating Voltage Range	10Vd.c.~100Vd.c.
Maximum Input Current (Single Channel)	16.5Ad.c.
MPPT Track Number	2

AC Input/Output

Rated Input/Output Power	2.4kW/0.8kW
Working Phase	L/N/PE
Rated Grid Voltage	230Va.c.
Rated Grid Frequency	50Hz
Rated Grid Input/Output Current	10.5A/3.48A
Power Factor	>0.99
THD	<2%

Back-up (Off-grid)

Rated Output Power	2.4kW
Peak Output Power	3.6kVA,10S
Rated Output Voltage	230Va.c.
THD	<2%

General

Photovoltaic Connection	MC4
Off-grid Port	European Socket
Display	LED
Communication	Bluetooth, WiFi

Basic Parameters

Ambient Temperature Range	Charge -10~55°C Discharge -20~55°C
Relative Humidity	0~95%
IP Level	IP65
Cooling Method	Intelligent Cooling
Maximum Altitude	2000m



JMSS-2400 Front



Left



Right

Battery Parameter

Rated Voltage	51.2V(16S)
Battery Energy	2.6kWh
Life Cycle	<6000 (25°C,0.5C, 70%EOL)
Battery Type	LiFePO ₄
Depth of Discharge	90%
Battery Capacity	50Ah
Max Quantity of Energy Storage Unit	6
Total Capacity of the Product	2.6kWh~15.6kWh

Product Dimensions



Protection Functions

- Over Voltage Protection
- Under Voltage Protection
- Over Current Protection
- Short Circuit Protection
- Over Temperature Protection
- Anti-Islanding Protection
- Surge Protection



EV-Ray-2.5

Plug-in Stackable Hybrid Storage System

Innovation for Easy Energy Independence

EV-Ray-2.5 is a compact plug-in hybrid storage system designed for balcony solar, self-consumption and home backup applications. Its modular architecture enables flexible capacity expansion while delivering reliable and efficient energy management for modern households.



5200W
Max PV Input



2500W
Backup Output



4
MPPT



IP65
Protection



8000
Cycles



1-4
Battery Packs



Wi-Fi & Bluetooth



APP
Monitoring

Product Dimensions



Technical Specifications

PV Input

Number of MPPT Trackers	4
Max PV Input Power	4×1300W / 5200W
Max PV Input Current	4×18A d.c.
Max Short-Circuit Current (Isc)	4×25A d.c.
Max Open-Circuit Voltage (Voc)	120V d.c.
MPPT Voltage Range	22-100V d.c.
Startup Voltage	20V d.c.
MPPT Efficiency	99.8%

AC Output (On-Grid Terminal)

Grid Type	Single-Phase 2 Wire (L, N) + PE
AC Output Power	799 / 2500W
Max AC Apparent Power	799 / 2500VA
Max AC Output Current	3.5 / 10.9A a.c.
Rated AC Output Power	799 / 2500W
Rated AC Apparent Power	799 / 2500VA
Rated AC Output Current	3.5 / 10.9A a.c.
Rated Output Voltage	230V a.c.
Rated Frequency Range	50Hz
Power Factor Range	0.8 Lagging ~ 0.8 Leading
THDi	<3%

Battery Parameters

Battery Energy	5024Wh
Rated Voltage	63V d.c.
Battery Capacity	314Ah
Battery Type	LiFePO ₄
Max Charge Current	42A d.c.
Max Discharge Current	42A d.c.
Charge Cycle Life	8000 (25°C, 0.5C, 70%EOL)
Recommended Stack Quantity	1-4 PCS

AC Input (On-Grid Terminal)

Grid Type	Single-Phase 2 Wire (L, N) + PE
Max AC Input Power	3600W
Max AC Input Current	16A a.c.
Max AC Charge Power	2500W
Max AC Charge Current	10.9A a.c.
Rated Input Voltage	230V a.c.
Rated Frequency Range	50Hz

Back-up (Off-grid Terminal)

Max AC Output Power	2500W
Max AC Output Current	10.9A a.c.
Max AC Bypass Output Power	3600W
Max AC Bypass Output Current	16A a.c.
Rated AC Output Voltage	230V a.c.
THDV	<2%
UPS Switch Time	≤10ms
Parallel Operation	Recommend 1 unit in single-phase; 3 units in three-phase

General Parameters

Operating Ambient Temperature	-20-55°C
Max Operating Altitude	4000 m
Net Weight (Inverter)	14.2 kg
Dimensions (Inverter, L×H×D)	485×305×167 mm
Dimensions (Battery, L×H×D)	485×305×273 mm
Ingress Protection	IP65
Communication Method	Wi-Fi, Bluetooth
Monitoring Method	APP
Inverter Topology	Isolated
Protective Class	Class I
Over Voltage Category	AC: OVCIll; DC: OVC II

Why EV-Ray-2.5?



Reliable & Safe
Multiple protections ensure system and data safety.



Flexible Expansion
Stackable design supports up to 4 battery packs.



Plug & Play
Easy installation with plug-in connections.



Smart Energy Management
Intelligent control for higher self-consumption and energy savings.



Battery Optimizer
Equipped with battery optimizer for longer life and efficiency.

Commercial & Industrial Energy Storage

Sustainable Power Solutions for Modern Enterprise



ROI Optimization



Peak Shaving



Emergency Backup

On-grid Solar BESS Cabinet (Liquid Cooling)

125kW/261kWh

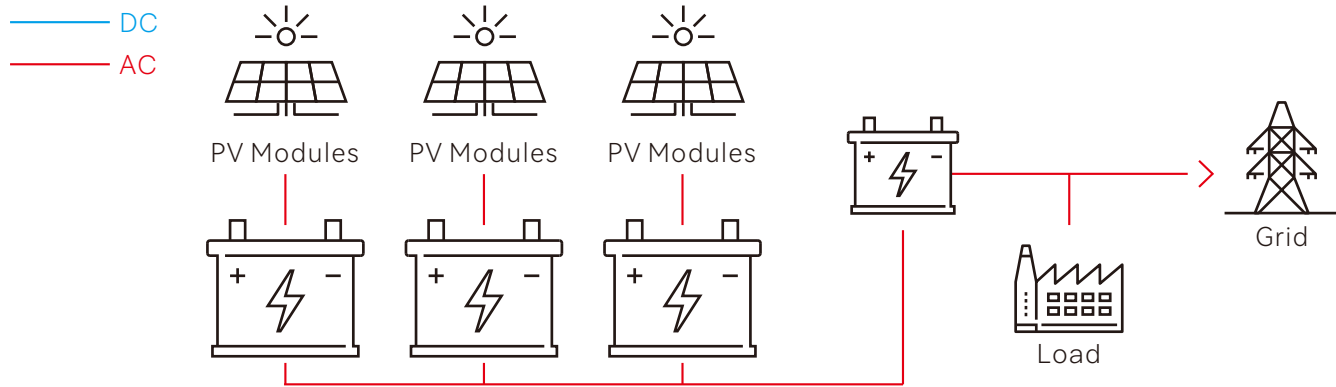
- 

Integrated BMS/PCS/EMS
- 

Easy installation and maintenance
- 

Supports multiple units in parallel
- 

IP65 waterproof



Model		261kWh+125kW
	Battery	
	Battery Type	LiFePO4 Battery
	Rated Energy	261kWh
	PV	
	Max.Power	120kW (1 channel)
	Max.PV Voltage	950Vdc
	MPPT Voltage Range	250~850Vdc
	Max.PV Input Current	200A
	MPPT Channels	1
	AC Input	
	Rated Power	125kW
	AC Voltage	00Vac/230Vac (L1/L2/L3/N/PE)
	Rated Frequency	50Hz/60Hz
	Max.AC Current	189A
	AC Output	
	Rated Power	125kW
	AC Voltage	00Vac/230Vac (L1/L2/L3/N/PE)
	Rated Frequency	50Hz/60Hz
	Max.AC Current	189A
	Parallel Number	12
	General Parameter	
	Communication Type	RS485/WiFi
	IP Grade	IP65 (Battery)
	Fire Protection System	Yes
	Operating Temperature	-10°C~55°C
	Humidity Range	5%~95%
	Altitude	<2000m
	Battery Cooling Method	Liquid cooling
	PCS Cooling Method	Intelligent cooling
	Size (mm)	980*1300*2350mm
	Weight (kg)	2500kg (about)

Solar-Diesel BESS Cabinet (Solis Series)

60kW/120kWh (Air-cooling)



Built-in hybrid inverter,
long lifespan + anti-theft



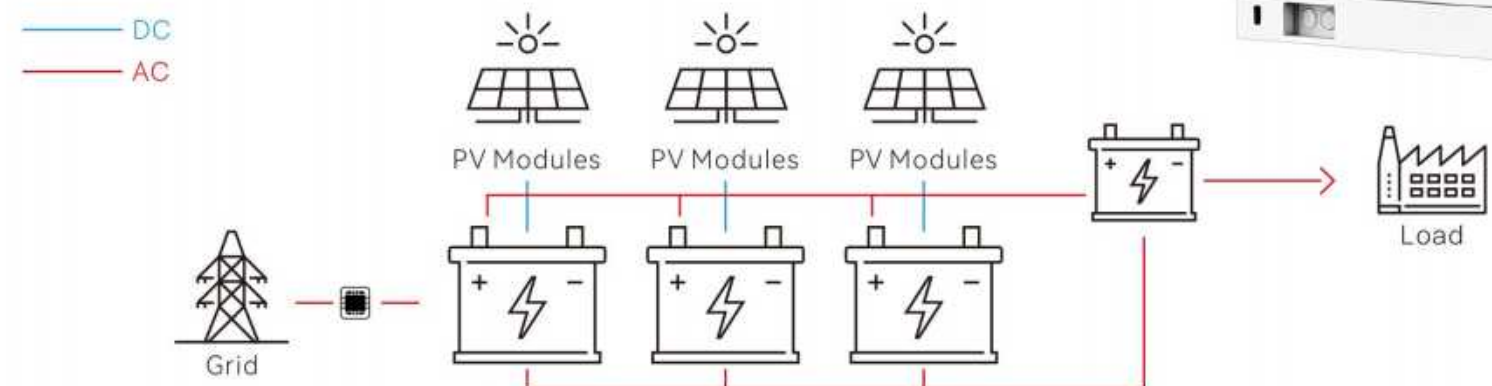
On/Off-grid switching
time <20ms



Supports multiple
units in parallel



Integrated Solis
inverter&EMS



Model		B120-60H3S-120M4-HS1
	Battery	
	Battery Type	LiFePO4 Battery
	Rated Energy	120kWh
	PV	
	Max. Power	120kW(4 channels)
	Max. PV Voltage	1000Vdc
	MPPT Voltage Range	150~850Vdc
	Max. PV Input Current	42A+42A+42A+42A
	MPPT Channels	4
	AC (On-grid)	
	Rated Power	60kW
	AC Voltage	400Vac/230Vac
	Rated Frequency	50Hz/60Hz
	Max. AC Current	90A
	AC (Off-grid)	
	Rated Power	60kW
	AC Voltage	400Vac/230Vac
	Rated Frequency	50Hz/60Hz
	Max. AC Current	90A
	Switching Time	<20ms
	Parallel Number	6
	General Parameter	
	Diesel Generator Port	Yes
	Communication Type	RS485/WiFi
	IP Grade	IP54
	Fire Protection System	Yes
	Operating Temperature	-10°C~55°C
	Humidity Range	5%~95%
	Altitude	<2000m
	Battery Cooling Method	Air Conditioner
	PCS Cooling Method	Intelligent cooling
	Size(mm)	/
	Weight(kg)	/

Solar-Diesel BESS Cabinet (Solis Series)

125kW/261kWh (Liquid-cooling)



Built-in hybrid inverter, long lifespan + anti-theft



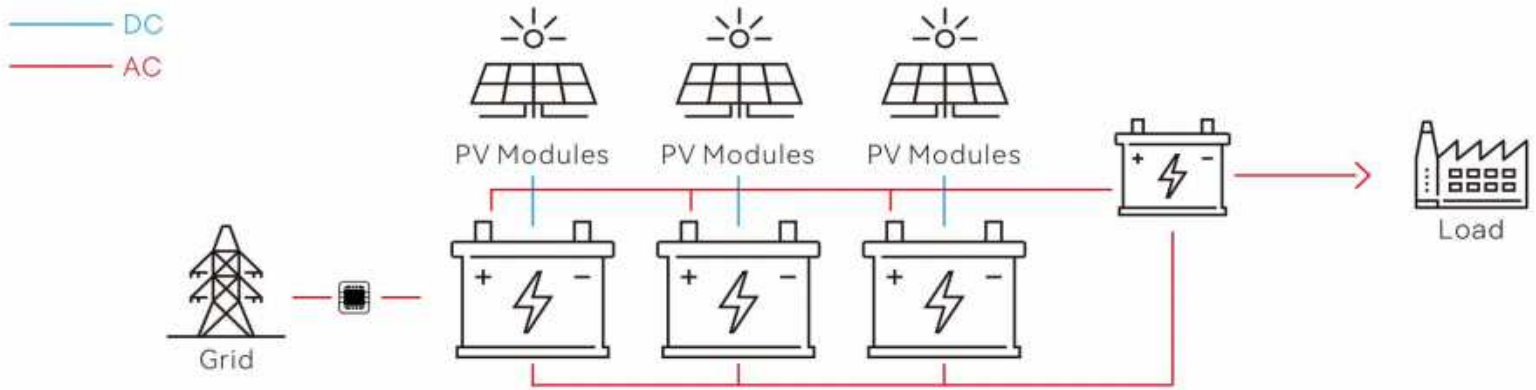
On/Off-grid switching time <20ms



Supports multiple units in parallel



Integrated Solis inverter&EMS



Model		B261L-125H3S-200M10-HS1
	Battery	
	Battery Type	LiFePO4 Battery
	Rated Energy	261kWh
	PV	
	Max. Power	200kW(10 channels)
	Max. PV Voltage	1000Vdc
	MPPT Voltage Range	150~950Vdc
	Max. PV Input Current	30A+30A+30A+30A+30A+30A+30A+30A+30A
	MPPT Channels	10
	AC (On-grid)	
	Rated Power	125kW
	AC Voltage	400Vac/230Vac
	Rated Frequency	50Hz/60Hz
	Max. AC Current	189A
	AC (Off-grid)	
	Rated Power	125kW
	AC Voltage	400Vac/230Vac
	Rated Frequency	50Hz/60Hz
	Max. AC Current	189A
	Switching Time	<20ms
	Parallel Number	6
	General Parameter	
	Diesel Generator Port	Yes
	Communication Type	RS485/WiFi
	Fire Protection System	Yes
	Operating Temperature	-10°C~55°C
	Humidity Range	5%~95%
	Altitude	<2000m
	Battery Cooling Method	Liquid cooling
	PCS Cooling Method	Intelligent cooling
	Size(mm)	/
	Weight(kg)	/

Evervision Zenith 2.5/5

2.5MW / 5.0MWh



Advanced Energy Arbitrage & LCOE Optimization



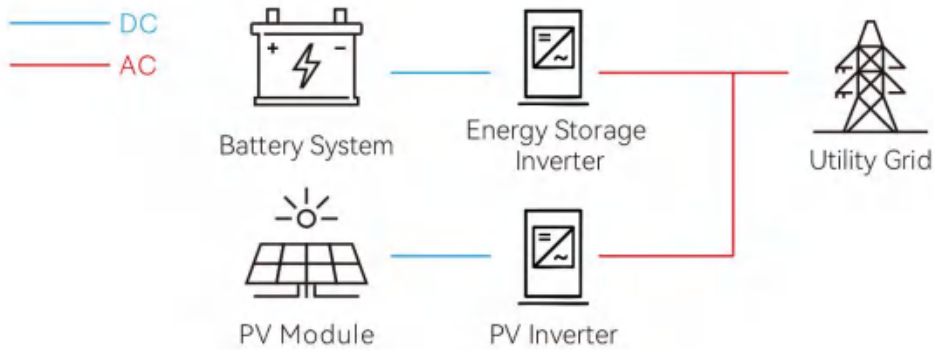
Superior Grid Resilience & Renewable Smoothing



Next-Gen Grid-Forming & Weak Grid Stability



Zero-Risk Protection Logic & Phased Scalability



Parameter Category	2.5MW / 5.0MWh
Model	5MWh
Cell	REPT Battero/EVE
Battery Type	LiFePO4
IP Rating	IP65
Rated Energy	5 MWh
Nominal Voltage	1331.2 V
DC Voltage Range	1081.6V~ 1497.6V
Rated Capacity	314 Ah (Single Cluster Capacity) / 12 Clusters in Parallel
Cell Specification	3.2V 314Ah (LFP)
Rated AC Power	2500 kW (2.5MW)
AC Voltage	0.69kV (Equipped with 2650kVA step-up transformer)
Max AC Current	2200A
On-grid & Off-grid Switching	Supports (Coordination with control layer required)
Temperature Control Mode	Liquid Cooling
Fire Protection System	Aerosol + Perfluorohexanone + Immersion Water Spray Triple Protection
Operating Temperature	-25°C ~ 55°C (Derating above 45°C)
Operating Altitude	< 3000m (Derating required above 3000 m)
Dimensions (mm)	6058 * 2438 * 2896 (20ft Standard Container)
System Weight	420000 KG(about)
Communication Interface	RS485、Ethernet、 Dry nodes, etc.
System	Black Start / Reverse Power Prevention / Anti-Islanding
Overall Efficiency	Operating temperature: -20°C ~ 60°C, Efficiency ≥93%

COMMERCIAL & INDUSTRIAL

5MWh Energy Storage System

High Capacity. Reliable Performance. Built for the Future.

Our 5MWh containerized energy storage system is designed for large-scale commercial, industrial, and utility applications, delivering safe, efficient, and intelligent energy solutions.



5MWh

System Capacity



2.5MW

Rated Power



LFP

Safe & Long-life
Battery



Smart EMS

Intelligent Control
& Monitoring



High Safety

Multi-level protection
and fire suppression system



Long Life

6000+ cycles
@ 90% DOD



High Efficiency

> 90% round-trip
efficiency



Smart Thermal Management

Liquid cooling system for
optimal performance



Scalable & Flexible

Modular design for easy
expansion and integration



Global Standards

Compliant with IEC, UL,
CE and other standards

SUPPORT CUSTOMIZATION

We provide flexible customization options to meet your specific project requirements.



CAPACITY

Customizable
capacity



POWER

Adjustable
power rating



THERMAL SYSTEM

Air cooling / Liquid
cooling optional



SAFETY SYSTEM

Fire protection
solution optional



COMMUNICATION

Multiple protocols
supported



APPEARANCE

Branding & exterior
customization



Empowering a sustainable future with **reliable**, **intelligent**, and **high-performance** energy storage solutions.

HEAT PUMP

Efficient Heating, Sustainable Comfort

Delivering high-efficiency heating and cooling solutions for a more comfortable and sustainable life.



RENEWABLE ENERGY

Clean power
from solar & wind



ENERGY STORAGE

Store energy for
flexible use



HEAT PUMP

High efficiency
heating & cooling



HOME COMFORT

Consistent heating
and cooling



LOW CARBON LIFE

Reduce emissions
and protect our planet



High Efficiency

Advanced technology for
maximum energy savings



Cost Effective

Lower energy consumption
reduces operating costs



All-Season Comfort

Reliable heating in winter,
cooling in summer



Quiet & Reliable

Low noise operation and
long-lasting performance



Sustainable Choice

Lower carbon emissions for
a greener future

R290
AIR TO WATER
HEAT PUMP

Sustainable Comfort,
Maximum Efficiency.



- R290 ECO**
Natural refrigerant
Low GWP
- A+++**
High Energy Efficiency
Class
- Ultra Quiet**
Low noise design
for peaceful living
- Smart Control**
Wi-Fi & App
Remote Management
- All Climate**
Stable operation
from -25°C to 43°C
- Reliable & Safe**
Multiple protection
for long-term use

10kW **1 Phase**

DAWGI-ACDC-10R3EP

80-150 m² Heating Area

55°C Flow Temp.

12kW **1 Phase**

DAWGI-ACDC-12R3EP

100-180 m² Heating Area

55°C Flow Temp.

12kW **3 Phase**

DAWGI-ACDC-12R3EP

100-180 m² Heating Area

55°C Flow Temp.

16kW **3 Phase**

DAWGI-ACDC-16R3EP

100-250 m² Heating Area

55°C Flow Temp.

KEY FEATURES

R290 Natural Refrigerant
Low GWP, environmentally friendly and sustainable

A+++
High Efficiency
Seasonal space heating energy efficiency class up to A+++

Wide Temperature Range
Heating: -25°C ~ 35°C
Cooling: -5°C ~ 48°C

DHW up to 70°C
High outlet water temperature for comfortable hot water

Ultra Quiet Operation
Advanced noise reduction technology

Smart Control
Wi-Fi, App control and remote monitoring

Multiple Protections
Safe and reliable in all conditions

Modular Design
Modular up to 8 units for larger capacity

TECHNICAL SPECIFICATIONS

Model		10kW (1Ph) DAWGI-ACDC-10R3EP	12kW (1Ph) DAWGI-ACDC-12R3EP	12kW (3Ph) DAWGI-ACDC-12R3EP	16kW (3Ph) DAWGI-ACDC-16R3EP
Power supply	V / Ph / Hz	AC 220–240 / 1Ph / 50 / 60Hz		AC 380–415 / 3Ph / 50 / 60Hz	
Heating capacity (A7W3S)	kW	10.0	12.0	12.0	16.0
Rated input (A7W3S)	kW	2.74	3.24	3.24	4.48
COP (A7W3S)	W/W	3.65	3.70	3.70	3.35
Heating capacity (A-7W3S)	kW	7.8	9.5	9.5	15.0
COP (A-7W3S)	W/W	2.44	3.11	3.11	2.87
SCOP (35°C) ¹		4.75	4.50	4.50	3.90
SCOP (55°C) ¹		3.25	3.05	3.05	2.75
Max. outlet water temp.	°C	70		70	
Operating ambient temp. range	°C	-25 ~ 43		-25 ~ 43	
Refrigerant / GWP		R290 / 3		R290 / 3	
Water flow	m³/h	1.1	1.43	1.43	1.43
Sound power level ²	dB(A)	57	57	57	58
Net dimensions (WxDxH)	mm	1283×455×1036	1283×455×1036	1283×455×1036	1283×455×1036
Net weight	kg	150	167	191	191

¹ Seasonal space heating energy efficiency class under average climate conditions.
² Sound power level tested in accordance with EN12102-1 at A7W3S.

- All DC Inverter
- R290 ECO
- SG Ready
- Cloud Service Energy Mgmt.
- A+++
- DHW to 70°C
- Zone Control
- Wi-Fi
- Automatic Water Temp. Adjustment
- Security (Leakage Control)
- Modbus
- Holiday Mode
- Sterilisation to 65°C
- Modular 8 Units
- OTA

EV CHARGING

Powering the Future of Clean Mobility

Smart, fast, and reliable charging solutions that drive the transition to a sustainable transportation ecosystem.



Clean & Sustainable

Reduce carbon emissions with green energy



Smart & Efficient

Intelligent charging for maximum performance



Safe & Reliable

Advanced protection and reliable operation



Flexible & Scalable

Solutions for homes, businesses, and public networks



Future Ready

Driving the future of mobility with continuous innovation

Bolt 7 & Bolt 22

AC EV CHARGER

Smart. Safe.
Always Connected.

Reliable and intelligent AC charging solutions for homes, businesses and public spaces.



7kW / 22kW
Power Options



Type 2 / GB/T /
Type 1 Compatible



Safe & Reliable
Multiple Protections



Smart Connectivity
WiFi / 4G / Ethernet
OCPP 1.6J



Smart Access
Plug & Charge /
RFID / APP



IP65 / IK08
Built to Last



Certified. Compliant. Connected.
Built to global standards for peace of mind.



SPECIFICATIONS

Item	Bolt 7	Bolt 22
Power Supply	1P+N+PE	3P+N+PE
Rated Voltage	220-240V AC	380-450V AC
Rated Current	Max 32A(6-32A adjustable)	Max 32A(6-32A adjustable)
Frequency	50/60Hz	50/60Hz
Output Voltage	220-240V AC	380-415V AC
Maximum Current	32A	32A
Rated Power	7kW	22 kw
Charging Port	Type 2 Cable / GB/T Type Cable / Type 1 cable	
Cable Length	5/7/10 M Optional	
Cover Material	PC+Siloxane Alloy	
LED Indicator	Red/Blue/Green	
LCD Display	4.3" LCD Display	
RFID Reader	MIFARE ISO/IEC 14443-A	
Start Mode	Plug-In & Charge/RFID Card / APP	
Emergency Stop	Support	
WiFi/Bluetooth	Support	
3G/4G/5G	4G Optional	
Ethernet	Optional	
Communication Protocol	CCPP1.6J (support upgrade to OCPP2.0)Optional	
Residual Current Protection	Type A+6mA DC (Equal to Type B) / Type A	
IP Degree	Ip65	
Impact protection	K08	
Multiple Protection	Over/Under Current Protection, Short Circuit Protection, Ground Protection, Surge Protection, Over/Under Voltage Protection, Over/Under Temperature Protection	
Certification Standard	EN IEC 61851-1:2019; EN 62752:2016/A1:2020, EN IEC 61851-21-2:2021; EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021	
Warranty	2 Years	
Installation	Wall-Mounting (Column Optional)	
Work Temperature	-30°C-50°C	
Storage Temperature	-40°C- 70°C	
Work Humidity	5% -95%RH	
Work Altitude	<2000M	
Weight	3.9kgs	5.2kgs

Bolt 40 ~ Bolt 160

DC FAST CHARGER

Flexible Power.
Dual Output.
Powering the Future
of eMobility.



Wide Power Range



Dual Output



Smart & Reliable



Future Ready





Certified. Compliant. Connected.
Built to global standards for peace of mind.



OCPP

1.6J

IP54

IK10

SPECIFICATIONS

MODEL	Bolt60	Bolt80	Bolt120	Bolt160
FeaturesInput voltage	2 DC Connectors			
Frequency	380-480VAC(3P+N+G)			
Efficiency	50/60Hz±5%			
Power factor	>94% at nominal output power			
Power	>0.98			
Maximum output power (All in working)	60kW	80kW	120kW	160kW
Output voltage	30kW+30kW	40kW+40kW	60kW+60kW	80kW+80kW
Maximum output current	200-1000VDC According to supply voltage			
Charging module (per Port)	CCS-200A/300A(Optional), CHAdeMO-150A,GBT-250A			
Standby power consumption	30kW	40kW	30/20kW	40kW
Connectors	60-100W			
Display	CCS1, CCS2, CHAdeMO,GBT			
RFID system	7" LCD with touch screen			
Push Button	ISO/IEC, 14443A/B			
Language	Emergency Stop			
Communication protocol	English (Optional)			
Access Control	OCPP 1.6J			
Communication	RFID: ISO/IEC 14443A/B,Credit Card Reader (Optional)			
Dimensions (LxDxH)	Ethernet-Standard, 3G/4G Modem (Optional)			
Ingress Protection	900mm x 630mm x 1750mm			
Power Electronics Cooling	IP54,IK10			
Length of charging cable	Air Cooled			
Weight	5m			
Operating temperature	250kg	300kg	350kg	400kg
Altitude	-30°C to 55°C			
Working,Storage Humidity	<2000m			
Regulatory Compliance	≤95% RH, S 99% RH (Non-condensing)CE,EMC: EN 61000-6-1:2007,EN 61000-6-3:2007/A1:2011/AC:2012			
Charging Protocol Standards	Mode 4 - IEC-61851, ISO-15118, DIN 70121Mode 4 - CHAdeMO 2.0 Mode 4,GB/T 18487 2023, GB/T 20234 2023, GB/T 27930 2023			
Electrical Protections	Short circuit, Over current, Voltage surges (control), Overvoltage (power module). Undervoltage (power module), Overtemperature, EV communication fault, insulation fault (IMD)			
Electrical Safety: GFCI	RCD 30 mA Type A			
Electrical Safety: Surge Protection	20 kA			
Electrical Safety General	Over Voltage, Under Voltage, Over Current, Missing Ground			
Electrical Safety: Output Short	Output power disabled when output is short circuited			
Electrical Safety Temperature	Temperature Sensors @ Charge Coupler and Power Electronics			
Insulation (input -output)	02 5kV			
Emergency Stop	Emergency Stop Button Disables Output Power			
Warranty	1 Year /2 Years /3 Years... Optional			

Bolt

DC EV CHARGER

SSJ5 (MAX)/(PRO) Series

Power Up.
Every Journey.

High-performance DC fast charger
for commercial, fleet and
public charging applications.



High Power

120kW / 180kW / 240kW
flexible model options



Wide Compatibility

CCS1 / CCS2 / CHAdeMO /
GB/T supported



Safe & Reliable

Multiple protections,
IP54 + IK10



Smart & Connected

OCPP 1.6J, RFID, Ethernet,
3G/4G (optional)



Certified. Compliant. Connected.

Built to global standards for peace of mind.



OCPP
1.6J

ISO
15118

SPECIFICATIONS

Model	SSJ5 Max-120	SSJ5 Max-180	SSJ5 Max-240
Features	3 DC Connectors		
Input voltage	380-480VAC(3P+N+G)		
Frequency	50/60Hz±5%		
Efficiency	>94% at nominal output power		
Power factor	>0.98		
Power	120kW	180kW	240kW
Maximum output power(All in working)	40kW+40kW+40kW	60kW+60kW+60kW	80kW+80kW+80kW
Output voltage	200-1000VDC (According to supply voltage)		
Maximum output current	CCS-200A/300A(Optional),CHAdeMO-150A,GBT-250A		
Charging module(per Port)	40 kW	30 kW	40 kW
Standby power consumption	60-100W		
Connectors	GB/T、CCS2、NACS		
Display	7" LCD with touch screen		
RFID system	ISO/IEC,14443A/B		
Push Button	Emergency Stop		
Language	English(Optional)		
Communication protocol	OCPP 1.6J		
Access Control	RFID:ISO/IEC 14443AB,Credit Card Reader (Optional)		
Communication	Ethernet-Standard,3G/4G Modem (Optional)		
Dimensions(LxDxH)	900mmx720mmx1800mm		
ingress Protection	IP54,IK10		
Power Electronics Cooling	Air Cooled		
Length of charging cable	5m		
Weight	370kg	440kg	520kg
Operating temperature	-30°C to 55°C		
Altitude	<2000m		
Working,Storage Humidity	≤ 95% RH,≤ 99% RH (Non-condensing)		
Regulatory Compliance	CE,EMC: EN 61000-6-1:2007,EN 61000-6-3:2007/A1:2011/AC:2012		
Charging Protocol Standards	Mode 4 - IEC-61851, ISO-15118, DIN 70121Mode 4 - CHAdeMO 2.0 Mode 4 , GBT 18487 2023, GB 20151.223Mode 4 - CHAdeMO 2023		
Electrical Protections	Short circuit, Over current, Voltage surges (control), Overvoltage (power module), Undervoltage (power module), Overtemperature, EV communication fault, insulation fault (IMD)		
Electrical Safety: GFC	RCD 30 mA Type A		
Electrical Safety: Surge Protection	20 kA		
Electrical Safety General	Over Voltage, Under Voltage, Over Current, Missing Ground		
Electrical Safety: Output Short	Output power disabled when output is short circuited		
Electrical Safety Temperature	Temperature Sensors @ Charge Coupler and Power Electronics		

EVERVISION: INTELLIGENT ENERGY MANAGEMENT ECOSYSTEM



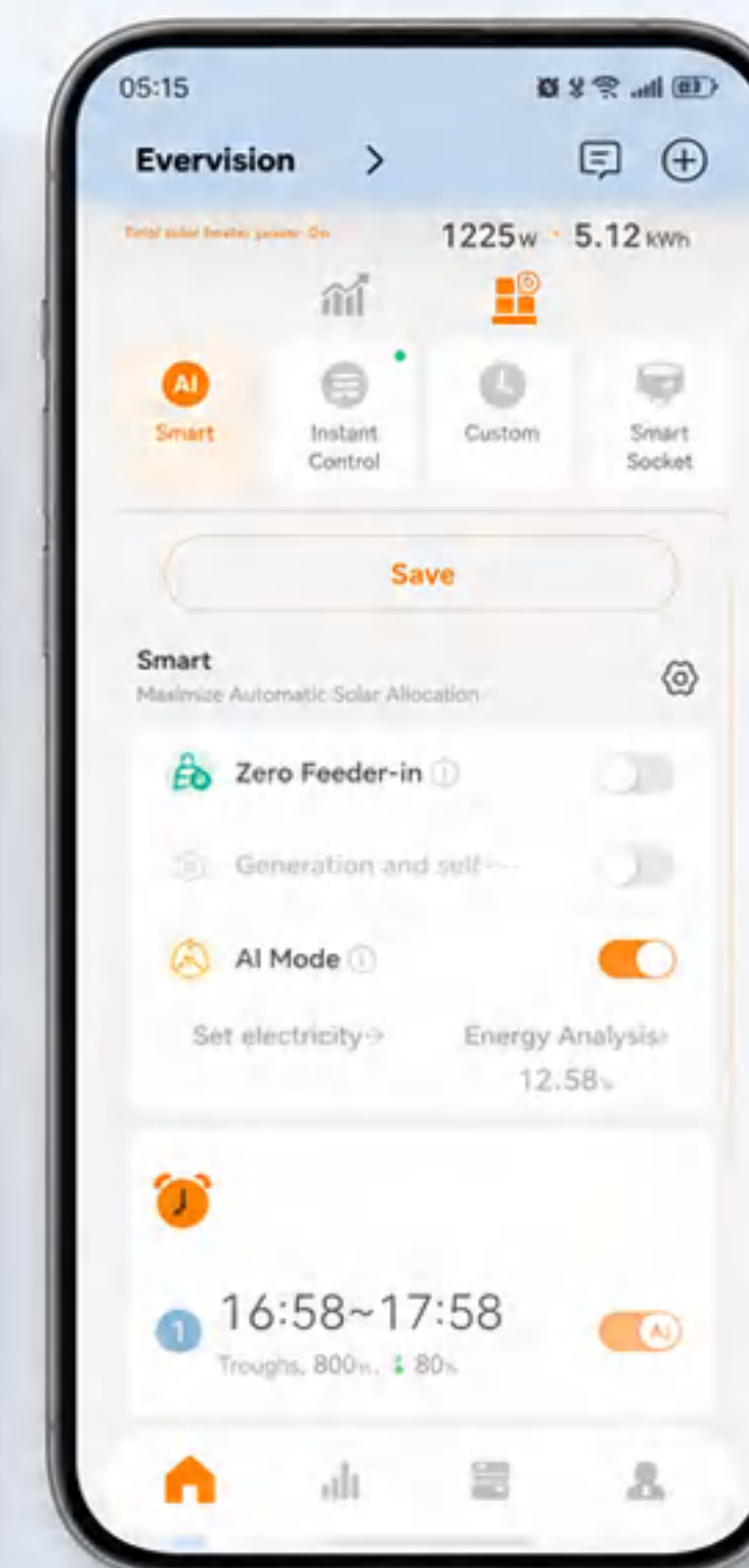
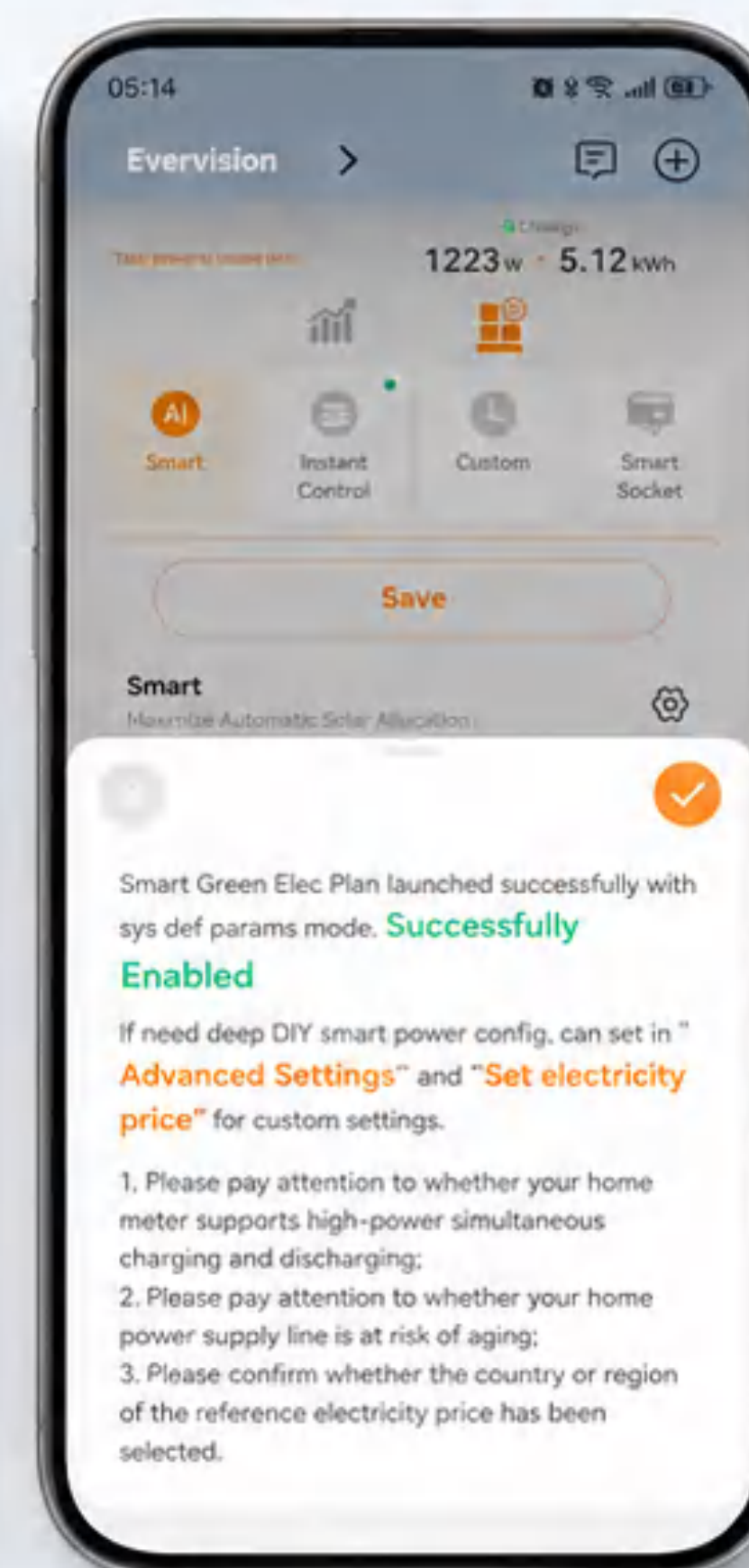
**Real-time Flow
Visualization**
for effortless
monitoring.



**Chip-level
Precision**
for enhanced
battery longevity.



**AI-driven
Strategies**
to maximize
self-consumption.



HIGHER EFFICIENCY
45%
System Efficiency
Improvement



SMARTER CONTROL
AI
Adaptive Energy
Optimization



LONGER LIFESPAN
20%+
Battery Life
Extension



GREENER FUTURE
CO₂ ↓
Lower Emissions
Greater Impact

Quality Assurance Service



RESIDENTIAL
ENERGY STORAGE

Residential Energy Storage:

5-year warranty or 8,000 charge-discharge cycles, whichever comes first. The residual battery capacity shall remain no less than 80% within the warranty period.



COMMERCIAL &
INDUSTRIAL ENERGY
STORAGE

Commercial & Industrial Energy Storage:

The battery is covered under a 10-year warranty. For the first 5 years, the warranty applies for 5 years or 8,000 cycles, whichever occurs earlier, with guaranteed residual battery capacity above 80%. Terms for the subsequent 5 years shall be specified in formal contracts separately. The inverter enjoys a 10-year warranty. Standard warranty covering core power modules is valid for the first 3 years. Terms for the remaining 7 years will be agreed per specific contracts.



Reliable Protection
Comprehensive warranty
for peace of mind.



Long-term Performance
Guaranteed capacity
retention.



Clear Terms
Transparent conditions
in formal contracts.



Professional Support
Responsive service and
technical assistance.



This is the CE Certificate (EU Declaration of Conformity), complying with the core requirements of EU Low Voltage Directive and EMC Directive.

Report No.: CMC251201181

UN38.3 TEST REPORT

UN38.3 检测报告

Report No.: CMC251201181

Name of Goods: All-In-One ESS

Model: ESS-5K1A-6KF1-G1H5A-B1-A

Type: 51.2V 100Ah 5.12kWh

Client: Shenzhen Tomorrow Vision Energy Technology Co., Ltd.

Classification of test: 委托测试

Tested by 主检人: Carol Kong 蔡玉

Approved by 批准人: Barry Ho 何伟

Inspected by 审核人: Dylan Dou 董明

Date of Issue: 2026.01.08

CMC Testing International (Shenzhen) Co., Ltd.

Report No.: CMC251201181M01

Material Safety Data Sheet

材料安全数据表

Report No.: CMC251201181M01

Name of sample: All-In-One ESS

Model: ESS-5K1A-6KF1-G1H5A-B1-A

Type: 51.2V 100Ah 5.12kWh

Client: 深圳明日愿景能源科技有限公司

Address: Room 1401G19, East Tower, Tian'an Innovation & Technology Plaza (Phase II), No. 2 Tairan 10th Road, Tian'an Community, Shatou Sub-district, Futian District, Shenzhen, Guangdong, China

Tested by 主检人: Carol Kong 蔡玉

Approved by 批准人: Barry Ho 何伟

Inspected by 审核人: Dylan Dou 董明

Date of Issue: 2026.01.08

CMC Testing International (Shenzhen) Co., Ltd.

中国检验认证集团

HAZARD CLASSIFICATION AND IDENTIFICATION REPORT FOR

TRANSPORT OF GOODS

（危险货物）

（Dangerous Goods）

样品名称: 一体机

样品型号: ESS-5K1A-6KF1-G1H5A-B1-A

Sample Name: All-In-One ESS

Sample model: ESS-5K1A-6KF1-G1H5A-B1-A

委托单位: 深圳明日愿景能源科技有限公司

供应商: 深圳明日愿景能源科技有限公司

CE CERTIFICATE (EU DECLARATION OF CONFORMITY)

LOW VOLTAGE DIRECTIVE, ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

ATTESTATION OF CONFORMITY

Technical file of this company mentioned below has been inspected and audit has been completed successfully.

2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directive has been taken as references for these processes.

Company Name: Shenzhen Tomorrow Vision Energy Technology Co., Ltd.

Company Address: Room 1401G19, East Tower, Tian'an Innovation & Technology Plaza (Phase II), No. 2 Tairan 10th Road, Tian'an Community, Shatou Sub-district, Futian District, Shenzhen, Guangdong, China

Related Directives and Annex: 2014/35/EU Low Voltage Directive / Annex II, 2014/30/EU Electromagnetic Compatibility Directive / Annex II

Related Standards: EN IEC 61000-4-1:2019, EN IEC 61000-4-3:2021, EN IEC 62619:2022, EN IEC 62477-1:2023/AC:2024-04

Product Name: Energy Storage Reverse Control Integrated Machine

Report No and Date: TCF-0120250829-S&Z, TCF-0120250829-AR-2

Product Brand/Model/Type: See Annex Page

Certificate Number: M.2025.206.C125445

Initial Assessment Date: 04.09.2025

Registration Date: 05.09.2025

Release Date/No: 04.09.2030

Expiry Date: 04.09.2030

Address: 13/F., Building 7, Hui'an Hongtan Industrial Zone, Dawangshan Community, Shajing Subdistrict, Baoan District, Shenzhen, Guangdong, China

ANNEX of Certificate No: M.2025.206.C125745

Product Brand/Model/Type: 51.2V100Ah-3kW, 51.2V200Ah-3kW, 51.2V100Ah-5kW, 51.2V200Ah-5kW, 51.2V300Ah-3kW, 51.2V200Ah-5kW, 51.2V200Ah-10kW, 51.2V200Ah-15kW, 51.2V200Ah-20kW, 51.2V200Ah-25kW, 51.2V200Ah-30kW, 51.2V200Ah-35kW, 51.2V200Ah-40kW, 51.2V200Ah-45kW, 51.2V200Ah-50kW, 51.2V200Ah-55kW, 51.2V200Ah-60kW, 51.2V200Ah-65kW, 51.2V200Ah-70kW, 51.2V200Ah-75kW, 51.2V200Ah-80kW, 51.2V200Ah-85kW, 51.2V200Ah-90kW, 51.2V200Ah-95kW, 51.2V200Ah-100kW, 51.2V200Ah-105kW, 51.2V200Ah-110kW, 51.2V200Ah-115kW, 51.2V200Ah-120kW, 51.2V200Ah-125kW, 51.2V200Ah-130kW, 51.2V200Ah-135kW, 51.2V200Ah-140kW, 51.2V200Ah-145kW, 51.2V200Ah-150kW, 51.2V200Ah-155kW, 51.2V200Ah-160kW, 51.2V200Ah-165kW, 51.2V200Ah-170kW, 51.2V200Ah-175kW, 51.2V200Ah-180kW, 51.2V200Ah-185kW, 51.2V200Ah-190kW, 51.2V200Ah-195kW, 51.2V200Ah-200kW, 51.2V200Ah-205kW, 51.2V200Ah-210kW, 51.2V200Ah-215kW, 51.2V200Ah-220kW, 51.2V200Ah-225kW, 51.2V200Ah-230kW, 51.2V200Ah-235kW, 51.2V200Ah-240kW, 51.2V200Ah-245kW, 51.2V200Ah-250kW, 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