

KOWINT ENERGY



KOWINT ENERGY



YOUR GREEN ENERGY MANUFACTURER

Established in 2014

KOWINT ENERGY is a high-tech enterprise specializing in the R&D, design, production, and sales of lithium battery energy storage systems, BMS, EMS, and lithium battery modules. We are committed to continuous innovation, with strong capabilities in lithium battery module development and advanced manufacturing technology.

Leading the Future of Green Energy

A partner in the journey toward a sustainable, energy independent future. By investing in green technologies and renewable energy solutions, we are helping create a cleaner, greener world for future generations.

Our Business



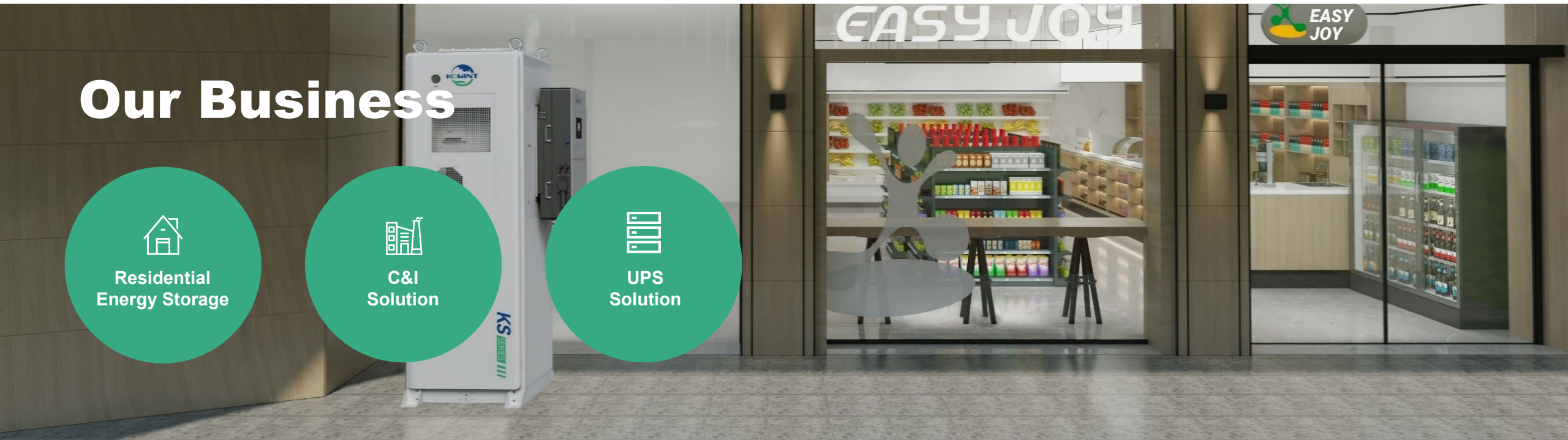
Residential
Energy Storage



C&I
Solution



UPS
Solution





KOWINT ENERGY

Our Strengths



500+
Systems Installed



100+
R&D Experts



50+
Patents Applied



Innovative R&D

Our team develops advanced BMS and EMS technologies, delivering safe and efficient power solutions with continuous breakthroughs in energy storage innovation.



Global Reach & Fast Delivery

Our MES-driven facility has a 3GWh annual production capacity, supported by four global warehouses for faster delivery and reliable local stock.



24/7 After-Sales Support

Dedicated around-the-clock support ensures prompt assistance and maximizes the reliability of your energy systems.





Manufacturing Ability

Our manufacturing factory in Huizhou, Shenzhen, integrates the latest Manufacturing Execution System (MES), streamlining our processes and providing real-time production oversight.



More than
10 Years
Experience



Intelligen
Management
Real-time Production



International
Standard
IATF 16949, ISO 9001, ISO1 4001



More than
3GWh Annual production capacity
40, 000 modules per month



Quality Assurance & Certifications

Certifications

- TUV, Third-party authority certification
- EU: IEC 62619/62620, CE, UKCA
- US: UL1973, UL9540, CEC



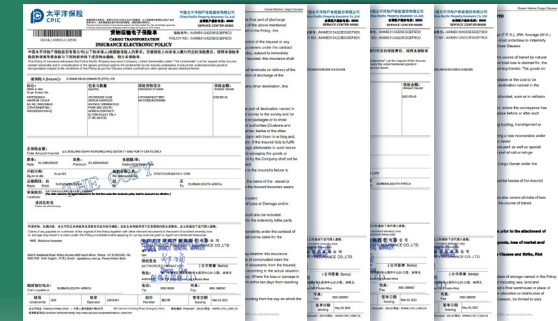
Product Qualification

- Our products meet rigorous international standards, ensuring reliability, safety, and quality for global markets.



Product Liability Insurance

- Our products are covered by comprehensive liability insurance, ensuring financial protection against defects and failures..



Development Roadmap

2014

Launched BMS & DPS

Enhancing power supply efficiency and reliability through advanced energy storage solutions.



2017

Released UPS

Provide reliable power supply for telecom operators.



2019

Launched LV Residential ESS

Expanding energy storage offerings for high-performance applications.



2021

Released HV Residential ESS

Catering to higher energy demands and enhanced reliability.



2022

Launched Micro-grid System

Developed our first microgrid system and established an industrial park with a \$40,000 investment.



2023

Further Developed C&I Storage System

Launched of C&I energy storage products.



2024

Expanded Micro-grid Product Line

Launched 60kWh and 233kWh liquid-cooling Battery.



2025

Developing Utility Scale Solution

Launch 10-ft liquid-cooling distributed container system.

Achieve 5 GWh production capacity and establish service systems in the EU and USA.



US Warehouse

14410 Best Ave,
Santa Fe Springs,
CA 90670, US

US Warehouse

200 Interchange Blvd
Newark DE 19711, US

Germany Warehouse

Schauenburger straÙe 9 Halle3
Pinneberg, schleswig Holstein

Netherlands Warehouse

FOX Warehouse 3 Laan van
Mathenesse7BNL-2665 MZ Bleiswijk

Shenzhen

Headquarter&
R&D Center

Huizhou

Factory



Manufacturing Execution System



21000m²
Factory Area



≥95%
FPY Rate



25 Days
Lead Time

✓ Order Delivery Visualization





Strategic Horizons Advancement Plans



US

S40K / W16K / R5000 – Residential ESS
KS60A / KS233 – C&I Energy Systems

Warehousing (CA, DE), after-sales teams,
recruiting channel partners



MX

S40K Supply Chain

Joint Manufacturing & T-MEC Duty-Free Access
Local Production & NA Export



EU

Full Residential & C&I ESS Lineup

Warehousing & VPP Rollout (DE/NL)



BR

Market Entry Point:
Residential ESS + UPS

Agent Setup & Training



Residential ESS revenue: **300** million, net profit: **45** million
C&I ESS revenue: **100** million, EV charging + storage: **100** million



2025 Total net profit
95 million

2026-2027



2026 revenue: **1.3** billion
2027 revenue: **2.6** billion



2028 Initiate Series C financing,
aiming for **NASDAQ IPO**



Future Development Blueprint

Strategic Focus

- **Global Expansion:** USA, Europe, Latin America
- **Promote Localized Manufacturing** (U.S.-Mexico) to Reduce Costs and Avoid Tariffs
- **Deepen Technological Innovation:** Cloud-based BMS/EMS Control Systems
- Expand **Microgrid**, **VPP** (Virtual Power Plant), and **Integrated Storage & Charging Solutions**



Customer Roles & Service Positioning

Kowint Energy is not only a product manufacturer but a comprehensive energy storage system solution provider, delivering tailored support and collaboration across diverse client segments to meet their unique operational and strategic needs.



Distributor

- Offers bulk pricing, training, and sample support.
- Ideal for market expansion.



Installer

- One-stop solution with technical guidance, fast delivery, remote support, and APP monitoring.



Brand/OEM

- OEM label support, module-level development, and customized EMS/integration cabinet options.



Project Integrator

- Supports C&I and microgrid projects with systems + containerized solutions + ProControl EMS.



Utility/ Channel Partner

- Collaborates on large-scale distribution/government projects; integrates supply chain and after-sales support.

After-sales Service System



Global Service Network

- ✓ Battery warranty: 10–12 years
- ✓ Inverter: 5 years
- ✓ Optional extended warranty available at an additional annual cost of 2.2%



Kowint Cloud Platform

- ✓ Real-time monitoring, diagnostics, and remote OTA firmware updates
- ✓ Supports role-based access and user management for distributors and installers



Standard Warranty Policy

- ✓ Hotline support, technical video guidance, and on-site replacement solutions
- ✓ Collaborates with local installers to enhance response efficiency

Local warehouses & service centers

US

CA \ DE

EU

CA \ DE

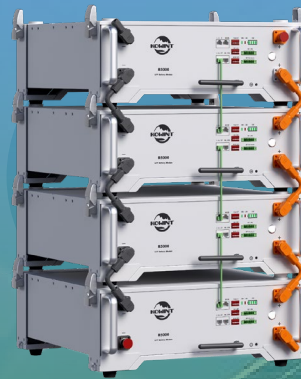


Battery Storage System



S40K

Nominal Energy : 5.12kWh
Rated Voltage : 51.2V
Max. Operating Current : 300A
IP Rating : 55
10.24-30.72kWh



R5000

Nominal Energy : 5.12kWh
Nominal Voltage : 51.2V
Max. Operating Current : 95A
IP Rating : 20
5.12-158.72kWh



W16K

Nominal Energy : 16.0kWh
Rated Voltage : 51.2 V
Max. Operating Current : 200A
IP Rating : 65

Battery Storage System



R5000i-60

Nominal Energy : 61.44kWh
Nominal Voltage : 51.2V
Max. Charging/Discharging : 300A
IP Rating : 20
Nominal Capacity : 500(Ah)



R5000o-30

Nominal Energy : 30.72kWh
Rated Voltage: 51.2V
Max. Charging/Discharging : 300A
IP Rating : 54
Nominal Capacity : 300Ah



R5000o-60

Nominal Energy : 61.44kWh
Nominal Voltage : 51.2V
Max. Charging/Discharging : 300A
IP Rating : 54
Nominal Capacity : 500Ah

R5000 Module Breakdown



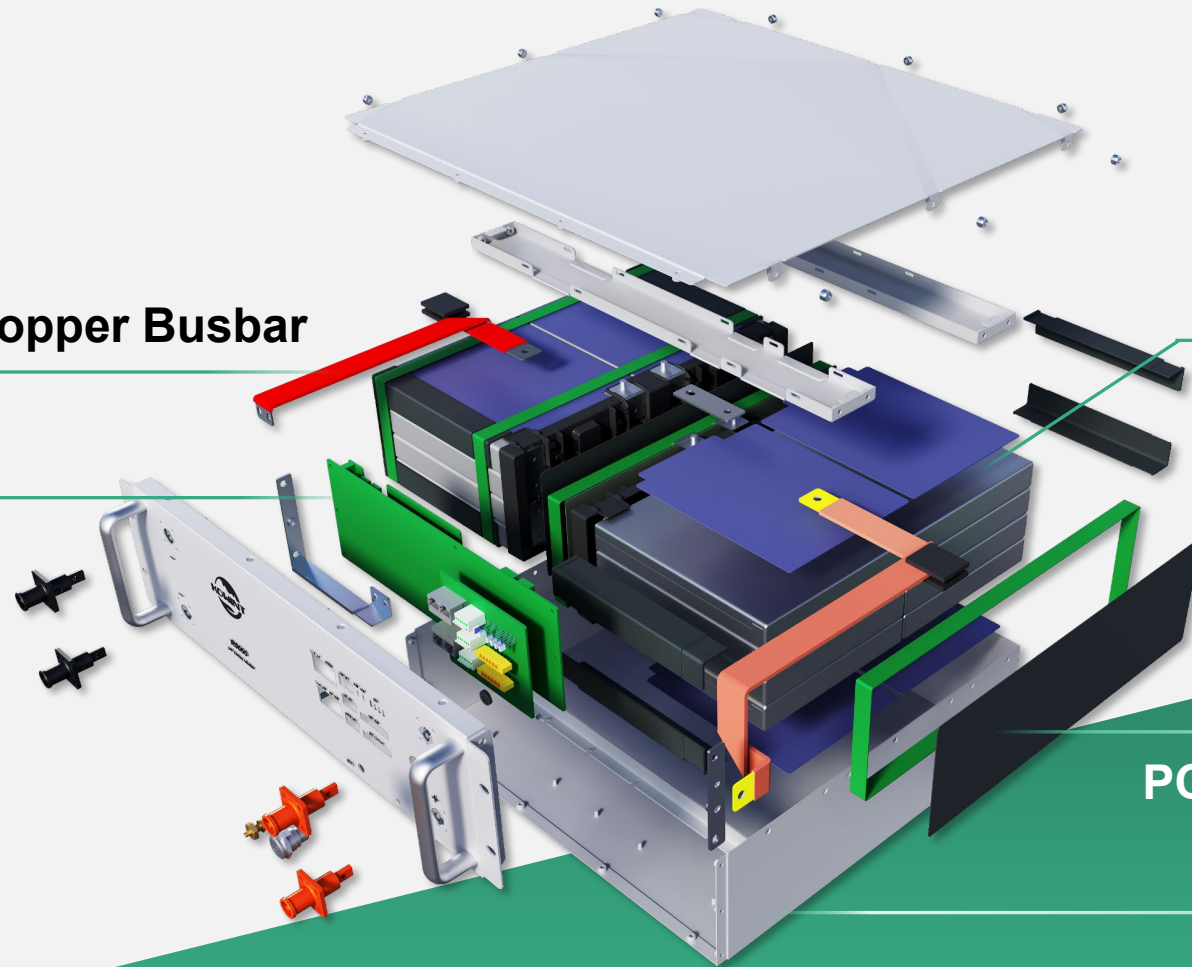
Negative Copper Busbar

Battery Cell

BMS

PC Insulation Sheet

Enclosure



R5000i-60 Module Breakdown



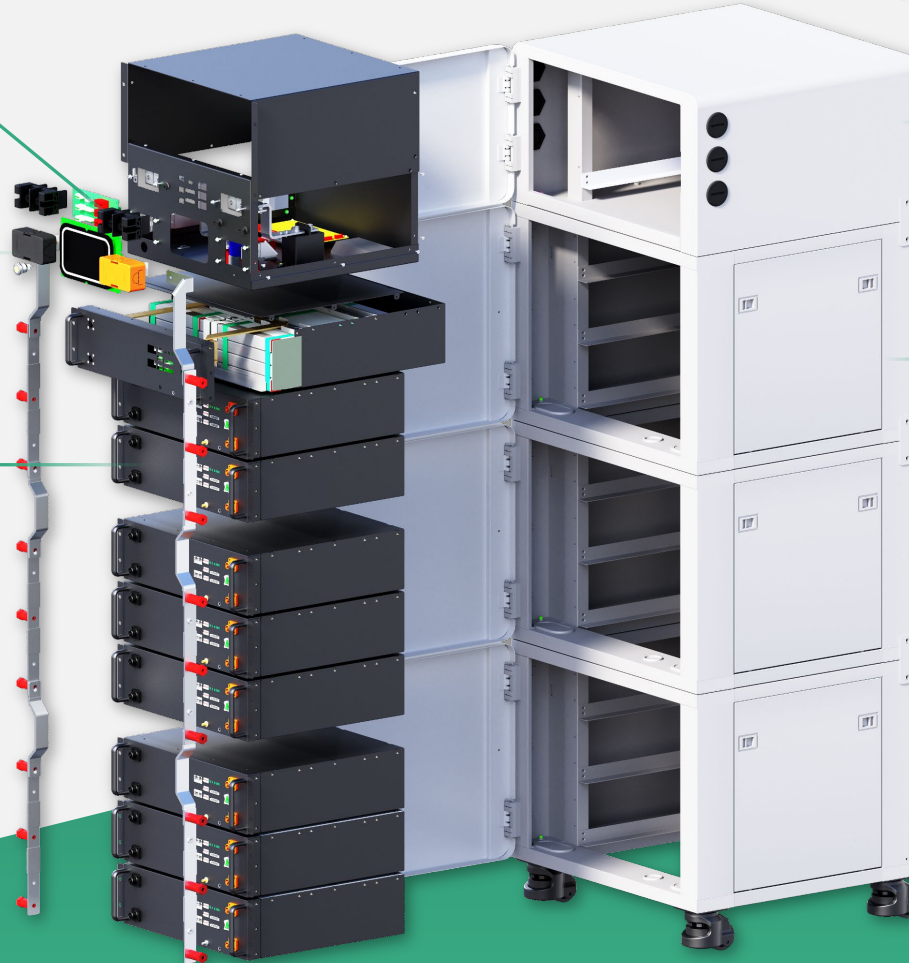
Communication
Output PCB

Battery Side Power
Connector

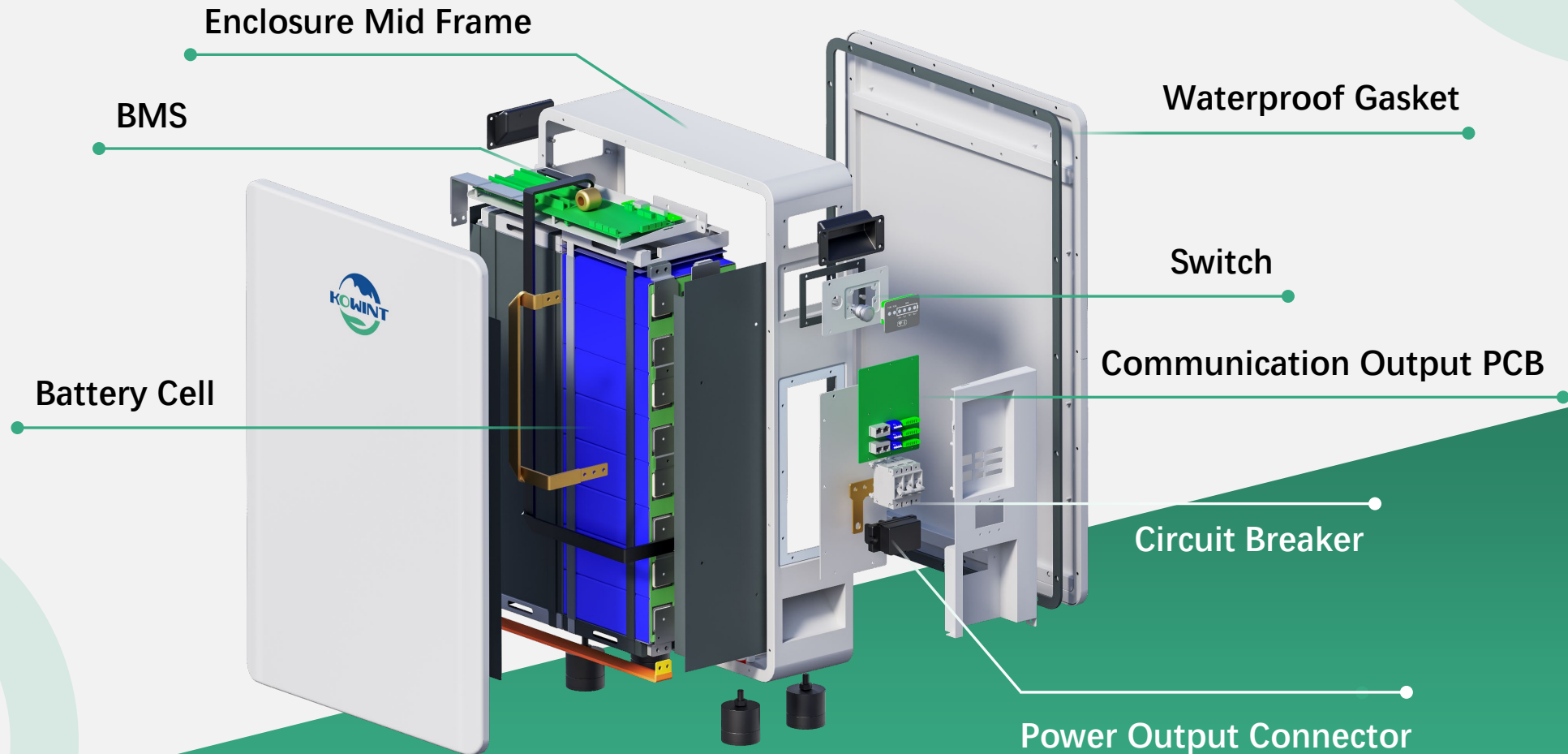
R5000
Battery Module

Main Control
Enclosure

Battery Cabinet
Outer Enclosure



W16K Module Breakdown





KOWINT ENERGY

Residential Solution



PV



Inverter



Grid



Load



R5000i-60 / R5000 / S40K / W16K



Kowint
Cloud

Residential One Stop Solution

High Performance

- >6000 Life Cycles(S40K /R5000)
- >8000 Life Cycles(R5000i-60)
- Maximum 15 clusters in parallel to get 460.8kWh(S40K)
- Maximum 31 units in parallel to get 460.8kWh(R5000)
- Delivers 61.44kWh of usable energy (R5000i-60)

Enhanced Safety

- IP55 design (S40K)
- IP20 design (R5000/R5000i-60)

User-Friendly Setup

- Cloud platform



KOWINT ENERGY

Residential Solution



PV



Kowint
Cloud



Residential One Stop Solution

High Performance

- >8000 Life Cycles
- Offers 30.72kWh capacity(R5000o-30)
- Offers 61.44kWh capacity (R5000o-60)

Enhanced Safety

- IP54 design
- Ideal for off-grid and outdoor setups
- Short-circuit Protections

User-Friendly Setup

- Cloud platform
- All-in-one design with integrated inverter and battery



KOWINT ENERGY

C&I Product



KS-60A (US/EU)

Rated Output Voltage

30kW 60kW(US)/30kW
50kW(EU)

Capacity

60kWh

Rated Output Power

307/614.4V

IP Rating

55

Voltage Range

307/614.4V



KS-233 (US/EU)

Rated Output Voltage

480V(US)/400V(EU)

Capacity

233kWh

IP Rating

54

Nominal Voltage

832V



KOWINT ENERGY

C&I Solution

60kWh Air-Cooling Battery

High Performance

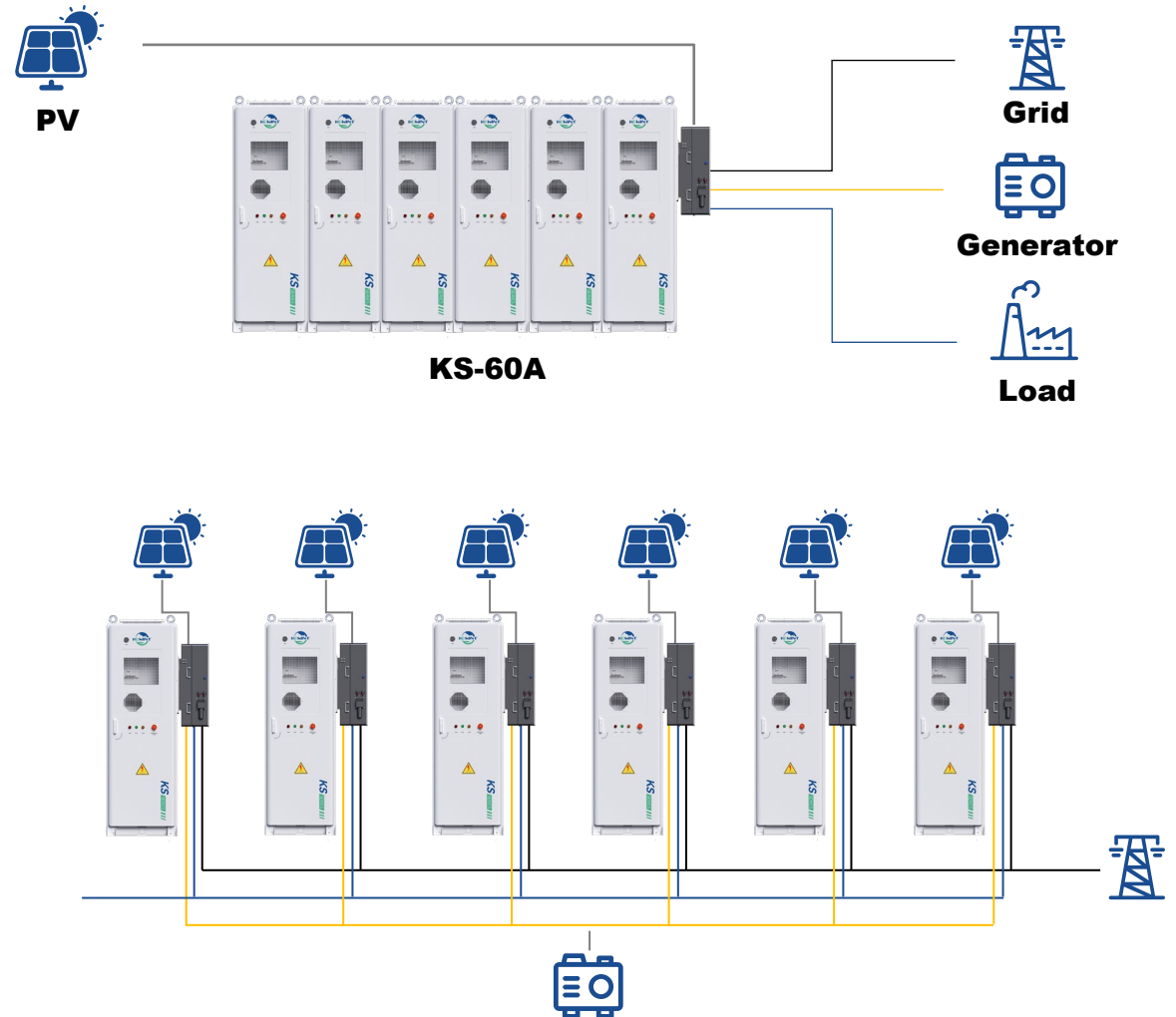
- Black start/Off-grid operations
- Efficient BMS Technology

Safe and Reliable

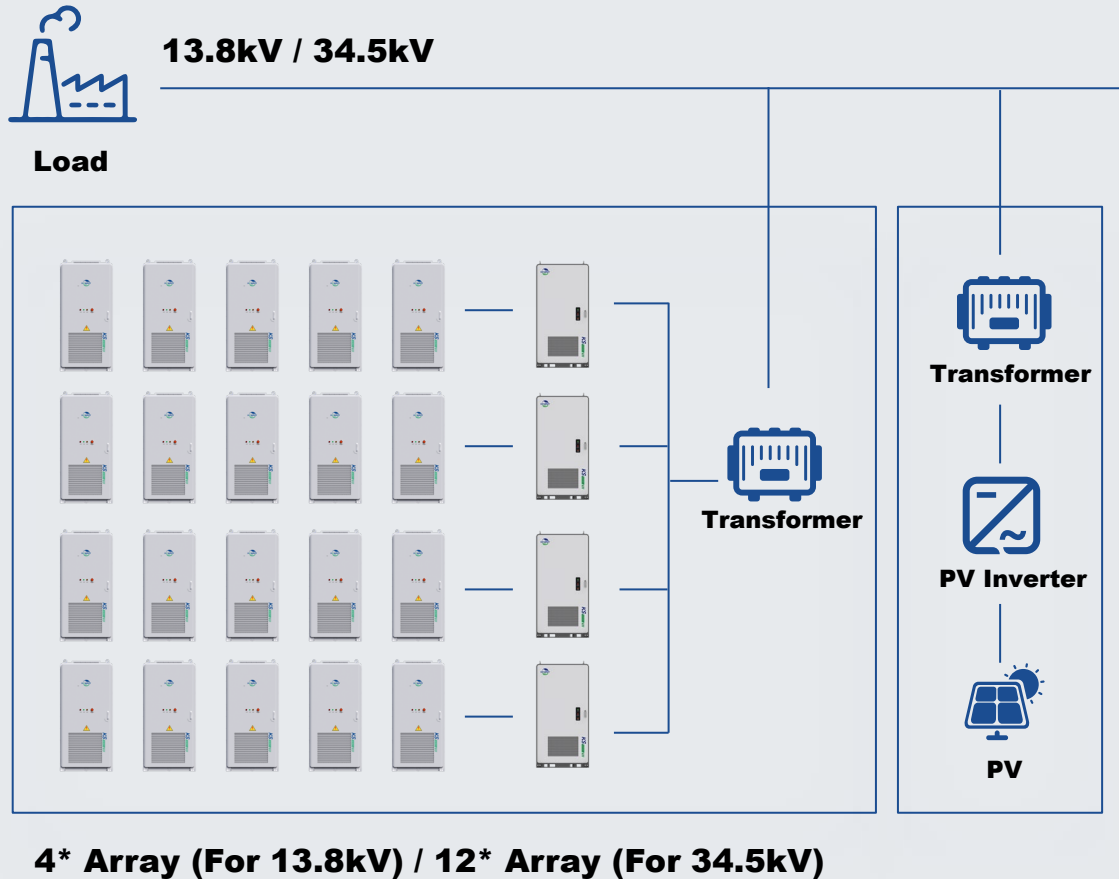
- IP55 design
- Full power temperature control

User-Friendly Setup

- Remote monitoring



C&I Solution



233kWh Liquid-Cooling Battery

High Performance

- High-efficiency liquid cooling
- Efficient BMS Technology

Safe and Reliable

- Fire prevention, top venting design
- AI management

User-Friendly Setup

- Modular design





KOWINT ENERGY

C&I Product



KS-2330G/AG

Grid-connected and Off-grid Switching Time

≤3min

IP Rating

IP54

Rated Power

307/614.4V

Pcs Switch

250A



KS-600MPC

MPPT Efficiency

95.50%

Output Voltage Rang

50~1000Vdc

Total Output Power

600kW

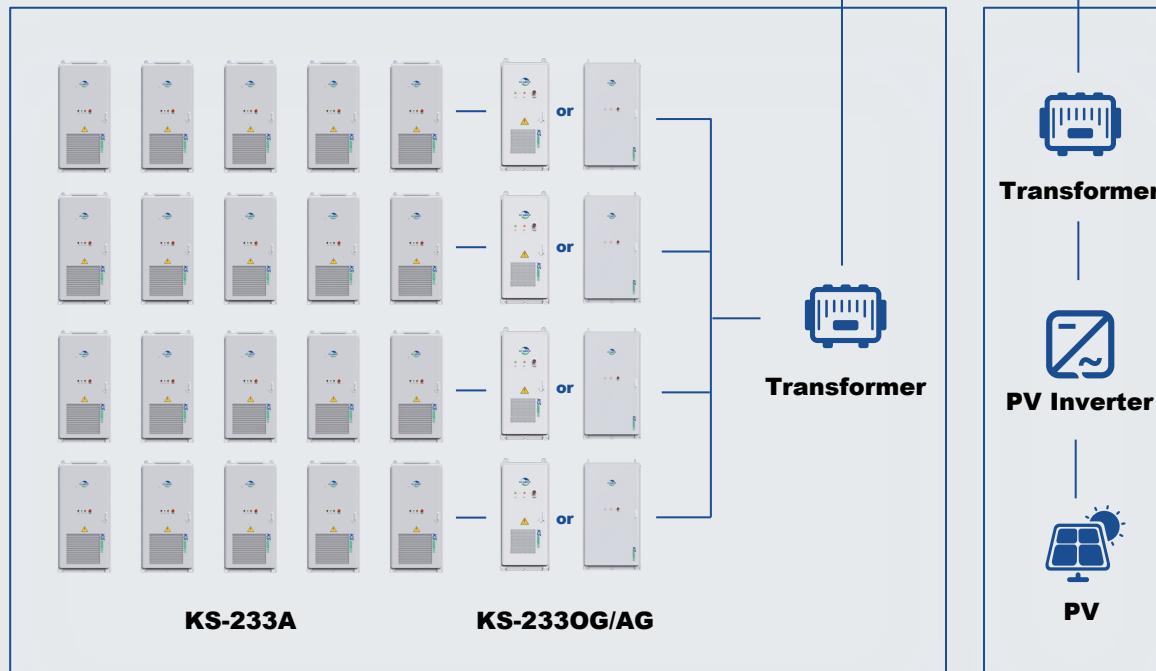
Number of MPPT

15

C&I Solution



Grid



On Grid Switching Combiner

High Performance

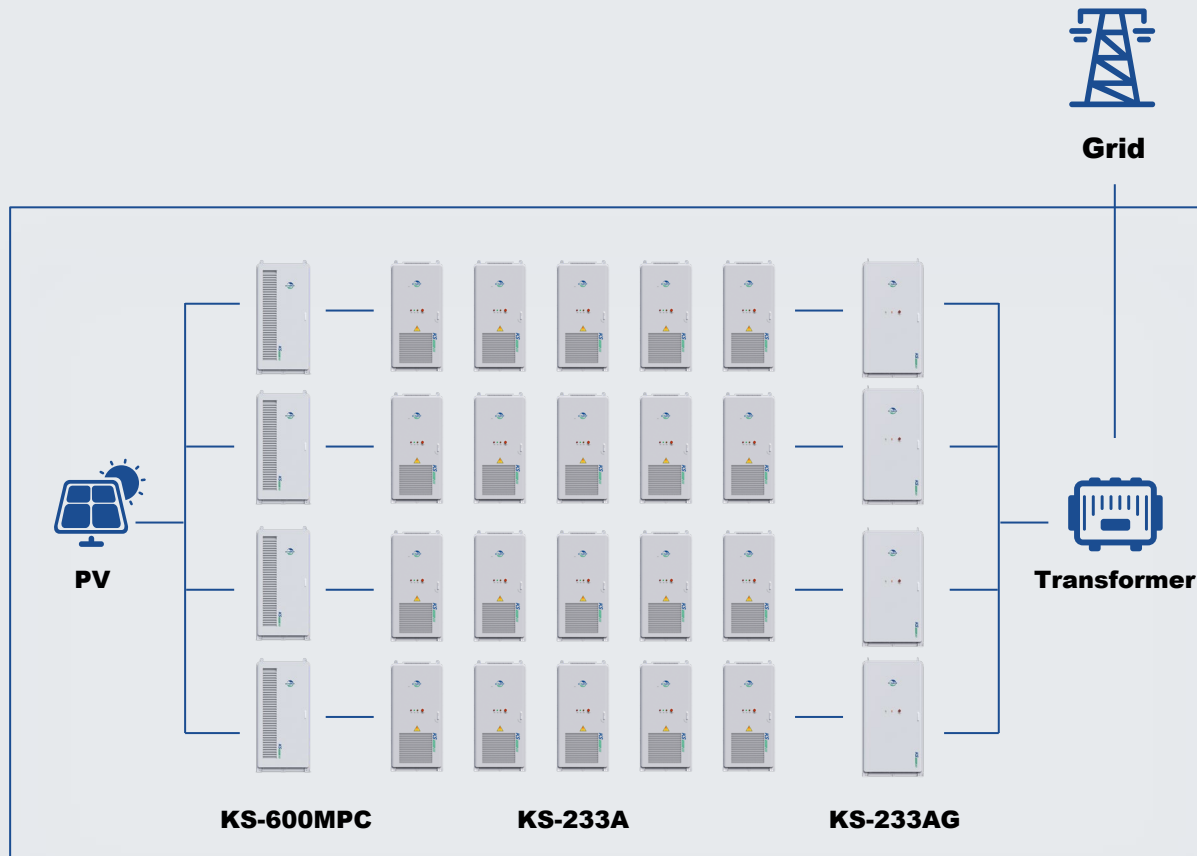
- Smart control for charge/discharge
- Supports multi-loop battery & DC bus
- HMI with modbus tcp/iec 61850.
- Grid-tied cabinet without pcs

On/Off Grid Switching Combiner

High Performance

- Smart control for charge/discharge
- Supports multi-loop battery & DC bus
- HMI with modbus tcp/iec 61850.
- Grid-tied cabinet without pcs

C&I Solution



MPPT Combiner System

Advanced MPPT Tracking

- Multi-channel tracking for maximum power point
- Improves PV efficiency in all conditions.

Dynamic Power Control

- Seamless PCS & EMS integration.
- Optimizes energy flow and output.

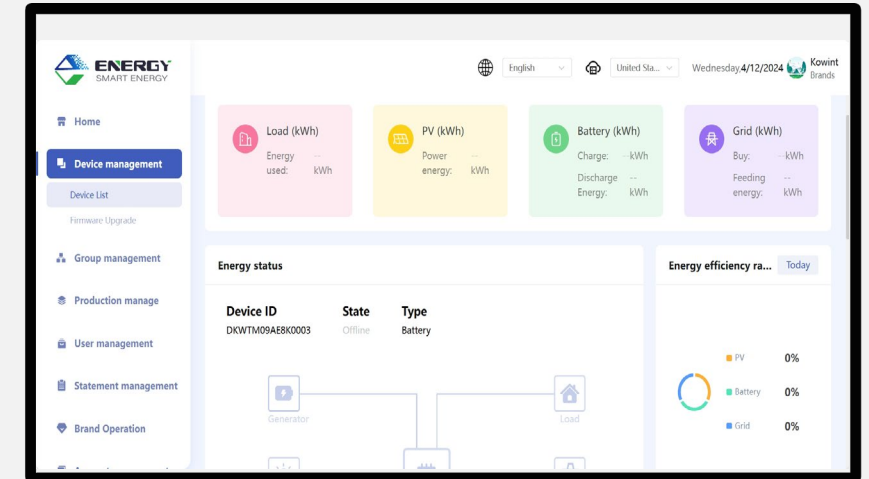
Complete DC Protection

- Polarity, voltage, current & surge protection.
- Ensures safe and stable operation.



Kowint Cloud

Kowint Cloud is an advanced device management and monitoring platform tailored for agents, installers, and end-users, providing real-time performance tracking, remote diagnostics, firmware updates, and efficient management of large-scale energy storage and power systems.



Real-time monitoring and data visualization for instant insights



Robust data security with distributed architecture and encryption



Remote firmware updates and smart operation reports



Supports Role-Based Access and User Management for Distributors and Installers

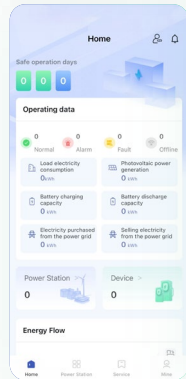




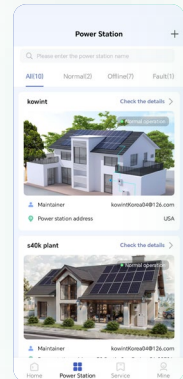
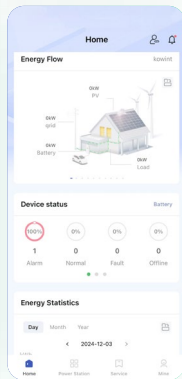
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Kowint App

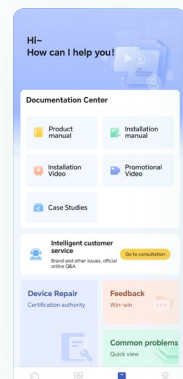
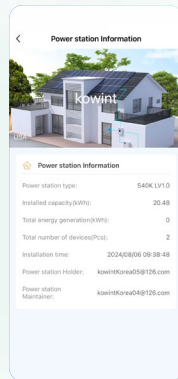
Interface Details



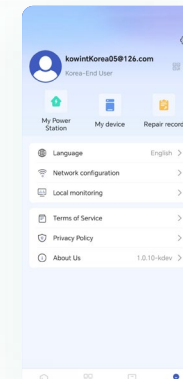
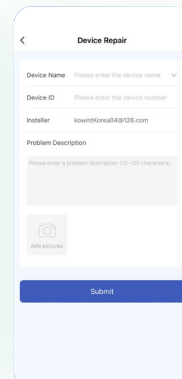
→ Home



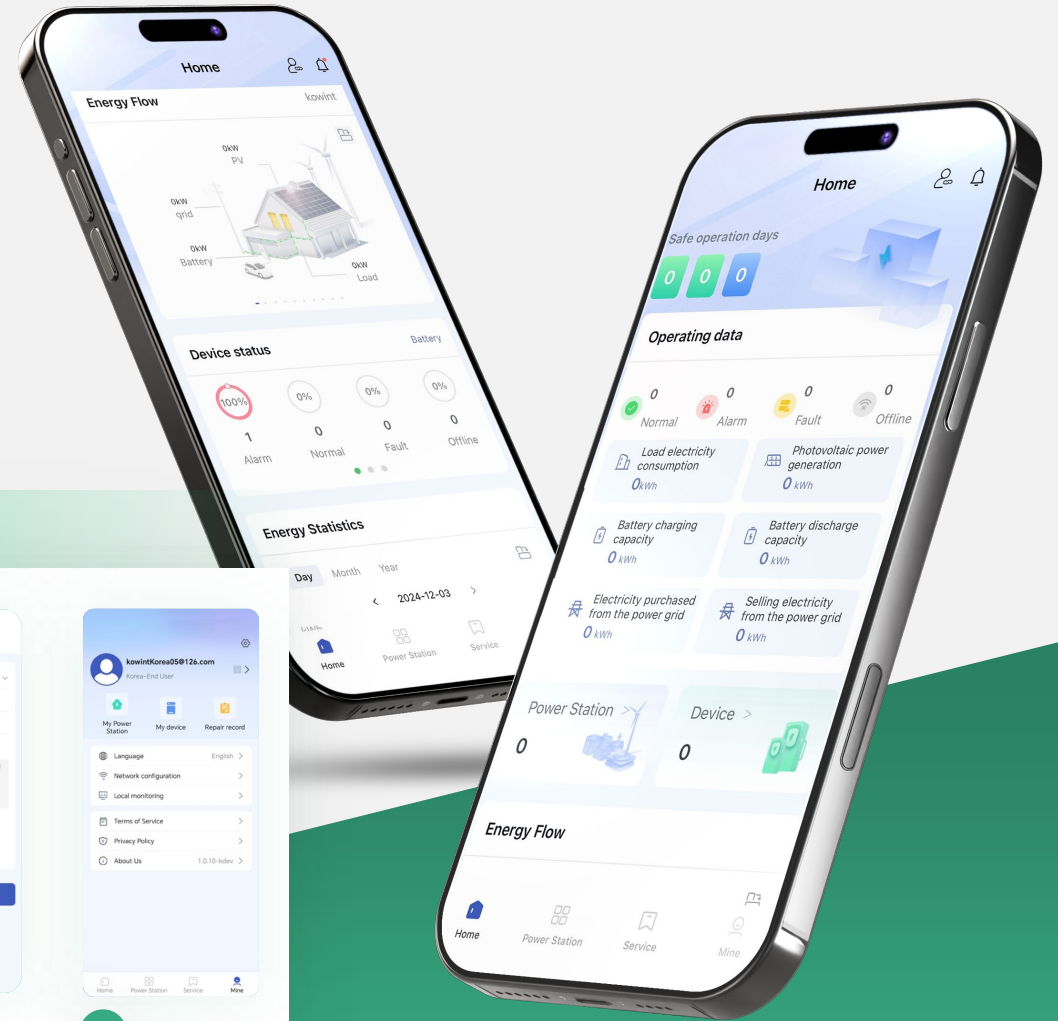
→ Power Station



→ Service



→ Mine





KOWINT ENERGY

ProControl Prime

Cabinet Level Local EMS

Advanced integrated display and control system for C&I energy storage solutions.



Advanced Graphics and AI



High-Brightness Touch Display



Robust and Durable Design



Comprehensive Communication Interfaces



High-Performance Data Processing



Flexible Cloud Connectivity





HOME BMS PCS LCU FSU Alarm System			
Data	CutPeaksFillValleys1 CutPeaksFillValleys2 CutPeaksFillValleys3		
Setting	Period Of Time	Charge Or Discharge Power	Dead SOC
CutPeaksFillValleys	00:00-01:00	— (kW)	— (%)
Alarm	01:00-02:00	— (kW)	— (%)
	02:00-03:00	— (kW)	— (%)
	03:00-04:00	— (kW)	— (%)
	04:00-05:00	20 (kW)	70 (%)
	05:00-06:00	25 (kW)	60 (%)
	06:00-07:00	— (kW)	— (%)
	07:00-08:00	— (kW)	— (%)

HOME BMS PCS LCU FSU Alarm System			
Data	Running Status	Day Charged	Day Discharged
Setting	Standby	2.5 (kWh)	2.5 (kWh)
CutPeaksFillValleys			
Alarm			
	Total Charged	Total Discharged	
	1,144.0 (kWh)	1,120.0 (kWh)	
	System Active Power (kW)	0.0	AC Side Discharge Active Power (kW)
	System Apparent Power (kVA)	1.9	AC Side Inductive Reactive Power (kVar)
	System Reactive Power (kVar)	1.9	Max. Capacitive Reactive Power Capacity (kVar)
	Power Factor	0.0	Max. Inductive Reactive Power Capacity (kVar)
	System Output U Current (A)	0.4	Frequency (Hz)
	System Output V Current (A)	0.4	Max. Chargeable Power (kW)
	System Output W Current (A)	0.3	Max. Dischargeable Power (kW)
	AC Side Charge Active Power (kW)	0.0	AC Switch Status
	AC Side Capacitive Reactive Power (kVar)	2.0	DC Switch Status

KOWINT ENERGY

ProControl Base

Station Level Local EMS

Reliable control and display solution for large distributed energy storage systems.



Advanced Graphics and AI



High-Brightness Touch Display



Robust and Durable Design



Comprehensive Communication Interfaces



High-Performance Data Processing



Flexible Cloud Connectivity

R40KL 40kWh

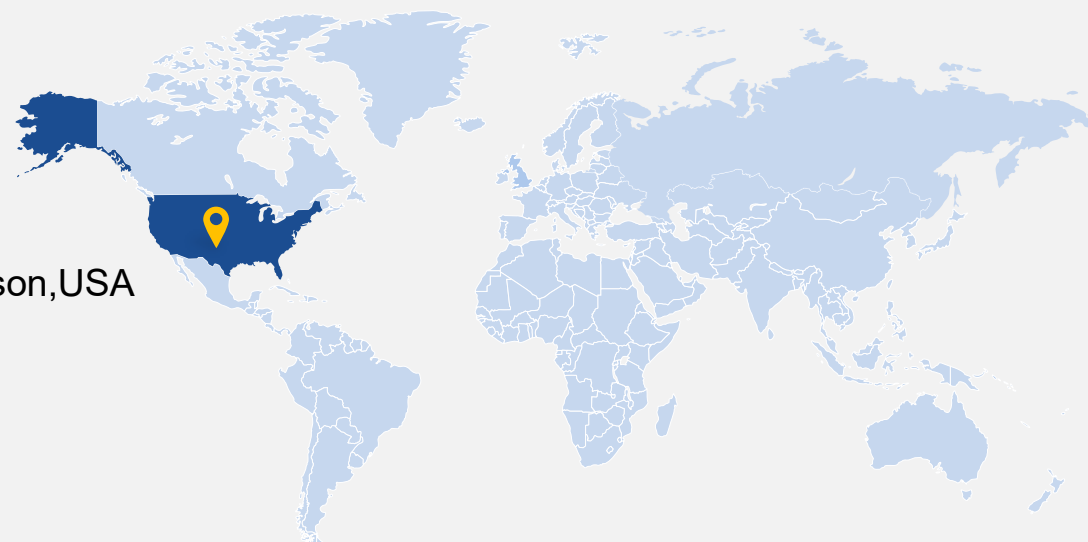


Nominal Capacity

40.96kWh(5.12kWh*8)

Self-use, connect with Sol-Ark

Jackson,USA





Residential Case

R5000

184.32kWh



Nominal Capacity

184.32kWh(5.12kWh*36)

Off-Grid use, connect with Megarevo



Brazil



Residential Case

S40K 60kWh

Nominal Capacity

61.44kWh(30.72kWh*2)

Self-use, connect with Sol-Ark



Indiana, USA





Residential Case

W16K 16kWh

Nominal Capacity

61.44kWh(30.72kWh*2)

Self-use, connect with Sol-Ark



Indiana, USA



C&I Case

Kowint DC KS-23kWh*4

Nominal Capacity

PV 100kWp

PV inverter 10kW*4



Chiba-ken, Japan





C&I Case

Kowint DC KS-157kWh

Nominal Capacity

PV 60kWp

PV inverter 20kW



Chiba-ken, Japan



C&I Case

Kowint DC KS-5.8MWh

Nominal Capacity

PV 2.4 MWp

PV PCS 49.5 kW



Contact Us

GET IN TOUCH



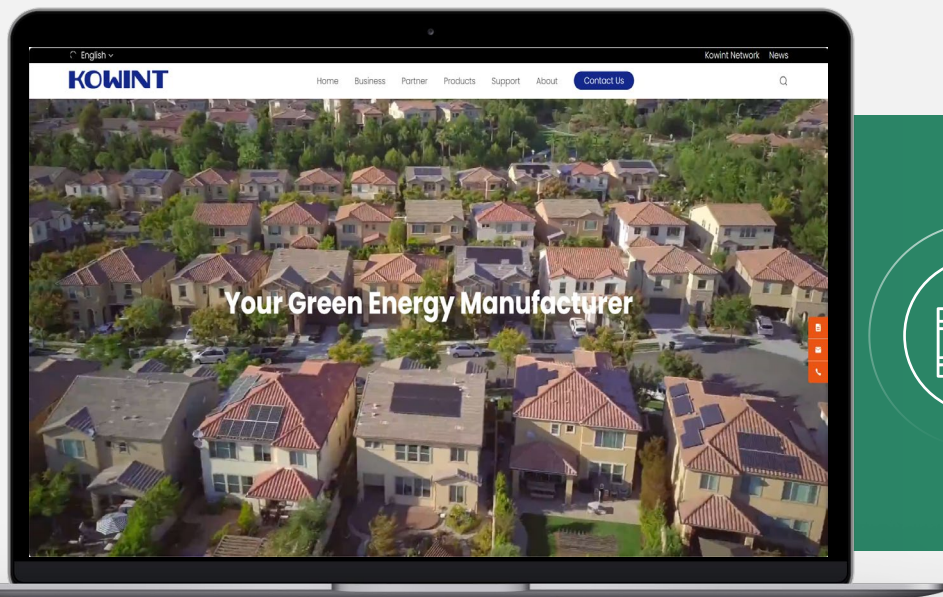
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