

YOUR GREEN ENERGY MANUFACTURER



For US Market

LiFePO4 Battery Storage Solution

Residential and C&I ESS



KOWINT ENERGY

Kowint Energy (Shenzhen) Co., Ltd.

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KOWINT

YOUR GREEN ENERGY MANUFACTURER

Established in 2014, KOWINT ENERGY is a high-tech enterprise focusing on the R&D, design, production, and sales of lithium battery energy storage systems, BMS, EMS, and lithium battery modules.

We have continuous independent innovation capabilities, excellent lithium battery module development & design abilities, and advanced manufacturing technology. Our products have passed UL, CE, ROHS, TUV, PSE, and other related certifications. Our factory has passed ISO9001 and ISO14000 system certifications.

Our products are designed to meet the needs of a wide range of applications, from residential and commercial buildings to industrial facilities and utility-scale projects. Whether you're looking to reduce your energy bills, increase your energy independence, or support your sustainability goals, KOWINT has the right solution for you.

10⁺

Years Experience
in the energy storage

4

Countries with
warehouse deployment

3GWh/year

Global
Production Capacity

MAIN BUSINESS



Residential Solution



C&I Solution



UPS Solution



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Modular LV LiFePO4 Battery ESS

S40K

10.24 — 40.96kWh



HIGH PERFORMANCE

- >8000 life cycles.
- Each cluster is up to 40.96 kwh(8 battery modules), maximum 15 clusters in parallel to get 614.4 kWh.



SAFE AND RELIABLE

- IP65 design, available for indoor / outdoor.



SMART MANAGEMENT

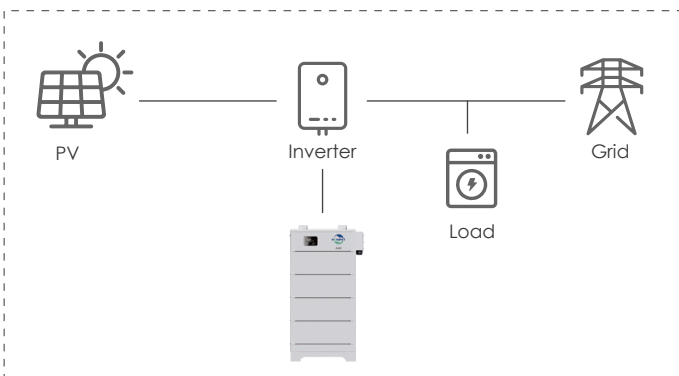
- Display screen allows for real-time monitoring.
- Cloud platform / APP remote monitor.



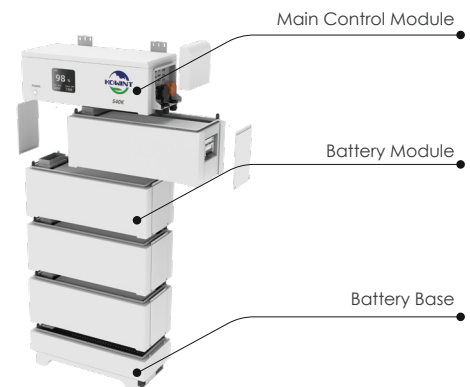
EASY INSTALLATION

- Modular design for ease of expansion.

System Layout



System Demonstration



● Product Specifications

Battery Energy Storage

Product Module QTY	2	3	4	5	6	7	8
Nominal Energy (kWh)	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Output Power (kW)	9.7	14.6	15.4	15.4	15.4	15.4	15.4
Max. Operation Current (A)	190	285	300	300	300	300	300
Peak for 10s (A)	196	297	392	490	500	500	500
Peak for 2s (A)	240	360	480	500	500	500	500
Max. Charging Voltage (Vdc)	58.4						
Discharge Cut-off (Vdc)	43.2						
Nominal Voltage (Vdc)	51.2						
Recommend Charging Voltage (Vdc)	56.8						
Battery Chemistry	LiFePO4						
Dimensions - W*D (mm/in)	635*268/25*10.6						
Dimensions - H (mm/in)	795/31.3	1023/40.3	1250/49.2	1478/58.2	1706/67.1	1934/76	2162/85
Net Weight (kg/lb)	~141/~311	~194/~428	~247/~545	~300/~661	~353/~778	~406/~895	~459/~1012

General Parameters

Scalability	Max. 15 systems in parallel
Storage Conditions	−4°F ~ 131°F(32°F ~ 95°F Recommended) Up to 90%RH, non-condensing Initial SoC: 50%
Operating Temperature	Charge: 32°F ~ 122°F Discharge: −4°F ~ 122°F
Cooling	Natural Cooling
Max. Altitude	4000m/13123ft
Cycle Life	8000 Cycles
Communication	RS485, CAN, WiFi

System Characteristic

Battery Compliances	UL1973,UL9540, UL9540A, UKCA, IEC 62619, IEC62040, CEI 0-21, UN 38.3, EN-61000, EN-62311
Installation Method	Stack Mounting
Installation Scene	Indoor or Outdoor
IP Rating	IP65
Warranty [1]	10 Years

[1] Please refer to the warranty letter for details

Wall-Mount LiFePO4 Battery ESS

W16K

16kWh



HIGH PERFORMANCE

- >8000 life cycles.
- 314AH cell capacity.



SAFE AND RELIABLE

- IP65 protection degree.



USER FRIENDLY SETUP

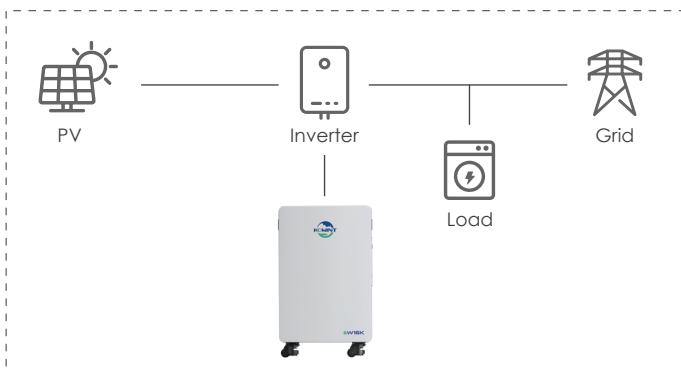
- Display screen allows for real-time monitoring.
- Cloud platform / APP remote monitor.



EASY INSTALLATION

- Wall-mount design saves installation space.
- Lightweight and convenient, easy to install.

System Layout



System Demonstration



● Product Specifications

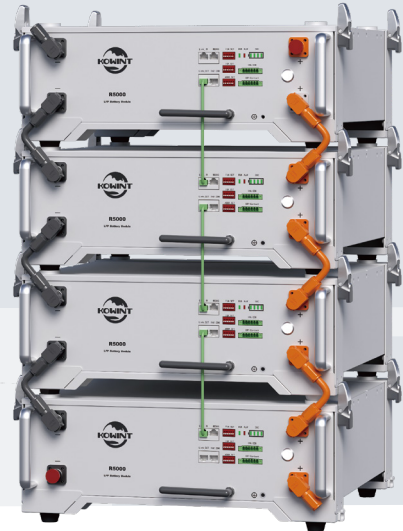
System Characteristics

Battery Type	LiFePO4
Rated Energy(kWh)	16
Cell Capacity(Ah)	314
Rated Voltage(V)	51.2
Cell Model	3.2V 314Ah
Combination Mode	16S1P
Discharge Cut-off Voltage(V)	43.2
Recommend Charing(V)	56.8
Max. Charging / Discharging Current(A)	200
Primary Overcurrent Protection(A)	210A@10S
Secondary Overcurrent Protection(A)	250A@500mS
Communication	RS485 / CAN / RS232
Compatible Inverter Brand	SMA, Growatt, Solax, Solis, DEYE, Sofar, Voltronic, Studer, etc
Cycle life	≥8000 times @ 25°C
Dimensions - W*D*H(mm/in)	500*245*740/19.69*9.65*29.13
Net Weight (kg/lb)	~133/~293
Protection Degree	IP65
Cooling	Natural Cooling
Installation	Wall-Mount In
Discharge Temperature(°C)	- 20 ~ 50
Charge Temperature(°C)	0 ~ 50
Storage Conditions	-20 ~ 55°C(0 ~ 35°C Recommended)Up to 95 % RH, non-condensing, Initial So : 50 %
Battery Compliances	IEC 62619, UN 38.3, CEI 0-21, EN-61000

Rack-Mount LiFePO4 Battery ESS

R5000 Base

5.12 — 158.72kWh



HIGH PERFORMANCE

- >6000 Life cycles.
- Max. 31 units in parallel.



SAFE AND RELIABLE

- Intelligent BMS protecting battery cells.
- Advanced safety mechanisms ensure reliable operation.



USER FRIENDLY SETUP

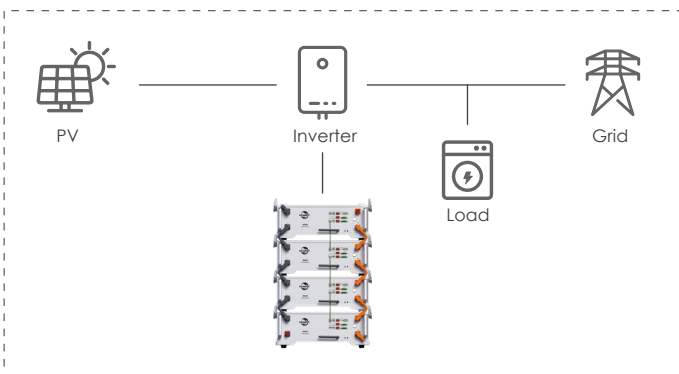
- RS485 and CAN compatible.
- Cloud platform / APP remote monitor.



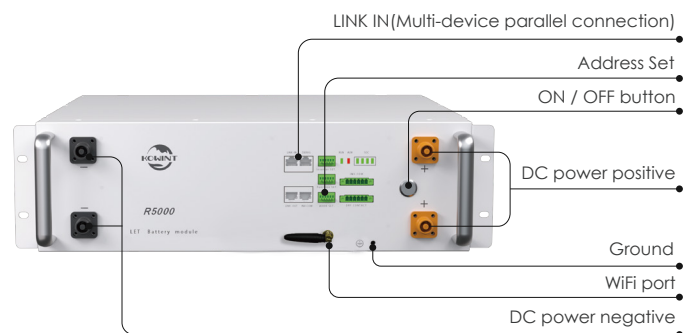
EASY INSTALLATION

- Rack mount design.
- Lightweight and convenient , single person installation.

System Layout



System Demonstration



● Product Specifications

Battery Parameters

Nominal Energy(kWh)	5.12
Max. Continuous Charging / Discharging(A)	95
Nominal Capacity(Ah)	100
Nominal Voltage(V)	51.2
Recommend Charging Voltage(V)	56.8
Max. Charging Voltage(V)	58.4
Discharge Cut-off Voltage(V)	43.2
Cell Model	3.2V 100Ah
Combination Mode	1P16S
Initial Internal Resistanc (mΩ)	<50
Standard Charging Current(A)	50
Standard Discharging Current(A)	50

System Characteristics

BESS Certifications	UKCA, UL1973, CE, UN 38.3, IEC62619
Emission	FCC Part 15 Class B
Surge Protection	DC Type II
Warranty	10 Years

General Parameters

Dimensio - W*D*H(mm/in)	440*420*132/17.3*16.5*5.2
Net Weight (kg/lb)	~45/~99.2
Enclosure	IP20
Operating Temperature(°C)	Discharging -20 ~ 50, Charging 0 ~ 50
Relative Humidity Range(RH)	Up to 95 %, non-condensing
Cooling	Natural Cooling
Communication	CAN, RS485, WiFi

Indoor Cabinet LiFePO4 Battery ESS

R5000 Lit

15.36 — 61.44kWh



HIGH PERFORMANCE

- Capacity options from 15.36kWh to 61.44kWh for diverse indoor applications



SAFE AND RELIABLE

- IP20 design, available for indoor.



SMART MANAGEMENT

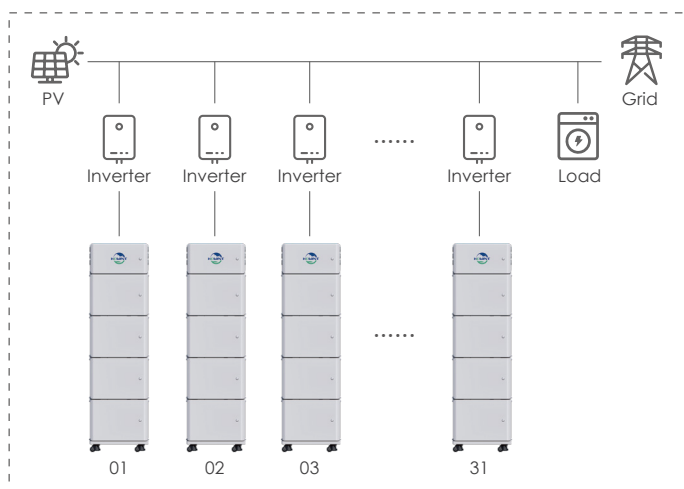
- Intelligent BMS protecting battery cells.
- Cloud platform / APP remote monitor.



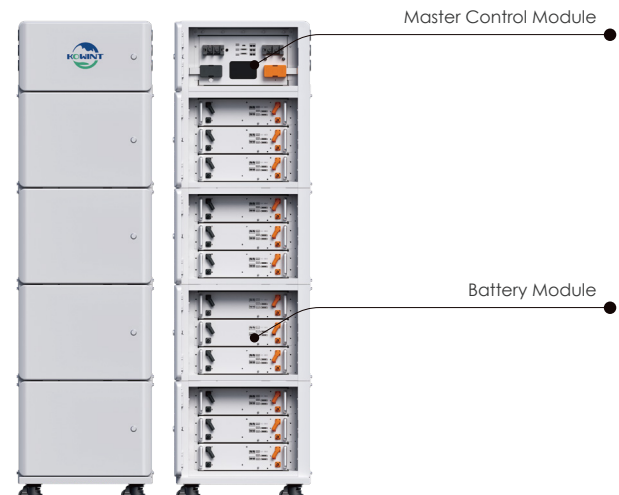
FLEXIBLE APPLICATION

- Compact indoor cabinet design with modular battery configuration.

System Layout



System Demonstration



● Product Specifications

Battery Energy Storage	R5000i-15	R5000i-30	R5000i-45	R5000i-60
Module Number	1	2	3	4
Battery Module Numbe	3	6	9	12
Nominal Energy (kWh)	15.36	30.72	46.08	61.44
Max. Charging/Discharging (A)	300	300	300	300
Nominal Capacity (Ah)	300	300	400	500
Peak for 10s (A)	330	330	350	350
Recommend Charging Voltage (V)	56.8			
Max. Charging Voltage (V)	58.4			
Discharge Cut-off (V)	43.2(Cells)			
Nominal Voltage (V)	51.2(Cells)			
Output Power voltage (V)	54(Steady Voltage)			
General Parameters				
Weight (kg/lb)	~165/363.76	~300/661.39	~435/958	~570/1,256.63
Dimensions - W*D(mm/in)	663*635/26.1*25.0			
Dimensions - H(mm/in)	955/37.6	1436/56.53	1917/75.51	2398/94.41
IP Rating	IP20			
Cycle Life	8000 times @25°C, 0.5C, 80%DOD, 80%EOL			
Designed Calendar Life	10 years			
Safety Function	Over-charge, Over-discharge, Over-current, Low/High-temperature, Low-voltage, Short-circuit Protections			
Operation Temperature	Discharge -20°C~50°C, Charge 0°C~50°C			
Parallel Capacity	Max. 8			
Communication	RS485, Wi-Fi, CAN			

All-In-One Cabinet LiFePO4 Battery ESS

R5000 Pro

30.72 / 61.44kWh



HIGH PERFORMANCE

- Single unit delivers 30.72kWh / 61.44kWh, expandable up to 491.52kWh with 8 units in parallel



SAFE AND RELIABLE

- IP54 design, available for outdoor.



SMART MANAGEMENT

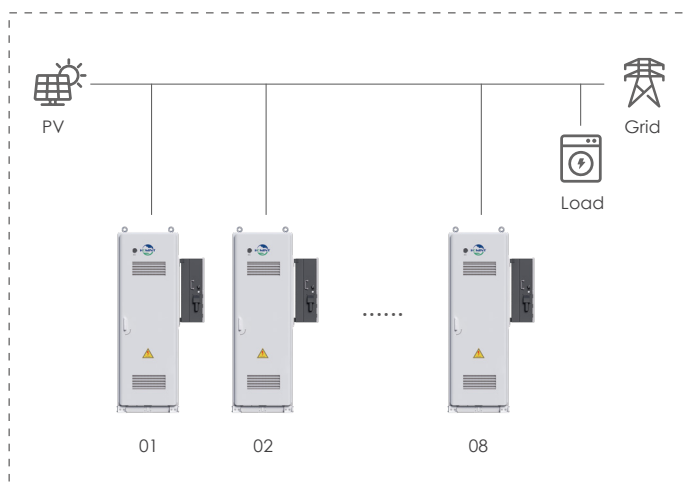
- Intelligent BMS protecting battery cells.
- Cloud platform / APP remote monitor.



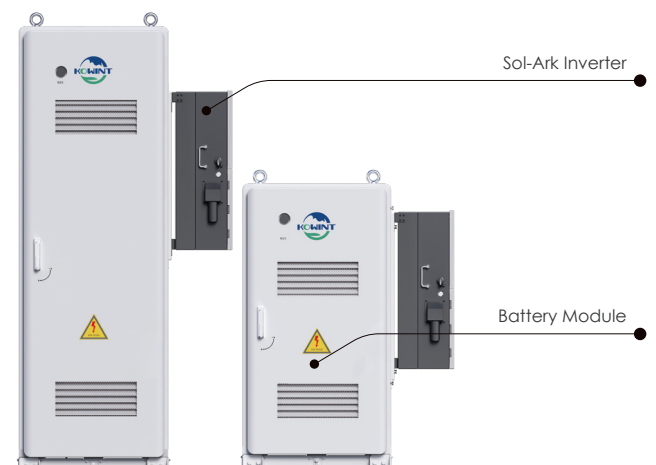
FLEXIBLE APPLICATION

- All-in-one inverter & battery design for diverse outdoor applications.

System Layout



System Demonstration



● Product Specifications

Battery Energy Storage	R5000o-30	R5000o-60
Product Module QTY	6	12
Nominal Energy (kWh)	30.72	61.44
Max. Charging/Discharging (A)	300	300
Nominal Capacity (Ah)	300	500
Peak for 10s (A)	330	350
Recommend Charging Voltage (V)	56.8	
Max. Charging Voltage (V)	58.4	
Discharge Cut-off (V)	43.2(Cells)	
Nominal Voltage (V)	51.2(Cells)	
Output Power voltage (V)	54(Steady Voltage)	
General Parameters		
Weight (kg/lb)	400/881.85	700/1543.23
Dimensions - W*D*H (mm/in)	760*832*1466/29.9*32.8*57.7	760*832*2266/29.9*32.8*89.2
IP Rating	IP54	
Cycle Life	8000 times @25°C, 0.5C, 80%DOD, 80%EOL	
Designed Calendar Life	10 years	
Safety Function	Over-charge, Over-discharge, Over-current Low/High-temperature, Low-voltage, Short-circuit Protections	
Operation Temperature	Discharge -20°C~50°C, Charge 0°C~50°C	
Parallel Capacity	Max. 8	
Communication	RS485, Wi-Fi, CAN	

60kWh Air-Cooling LiFePO4 Battery

KS-60A



HIGH PERFORMANCE

- >8000 life cycles.



SAFE AND RELIABLE

- IP55 design, minimize external environmental impact.



FLEXIBLE APPLICATION

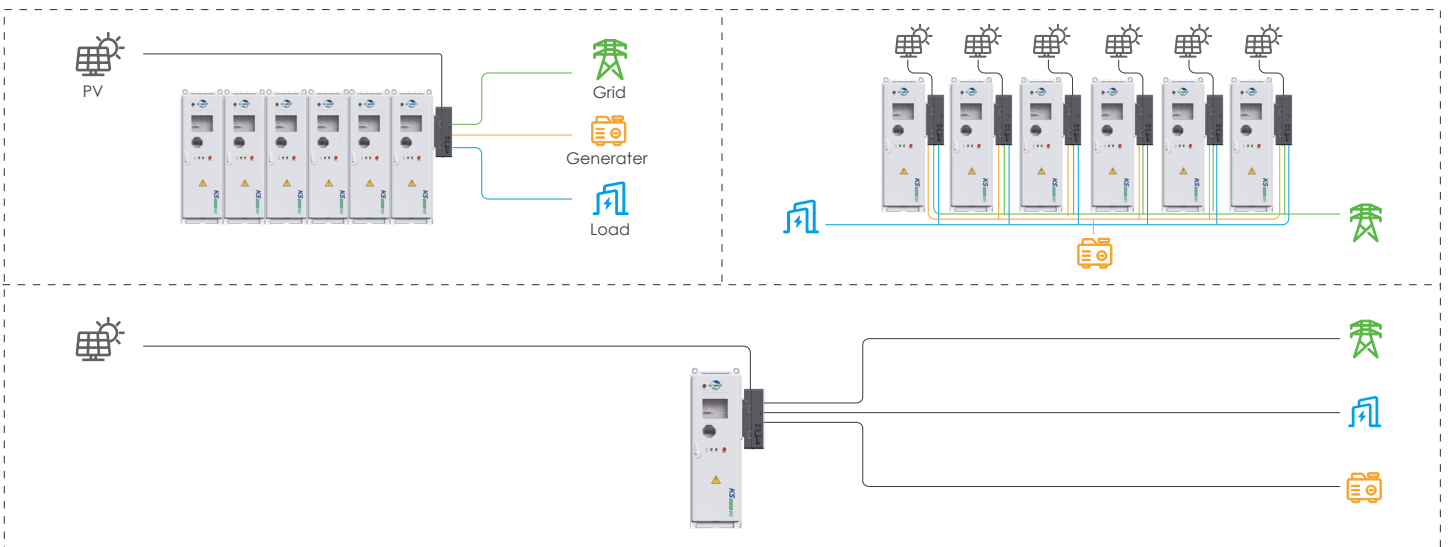
- Modular design for ease of expansion.
- Off-grid ops.



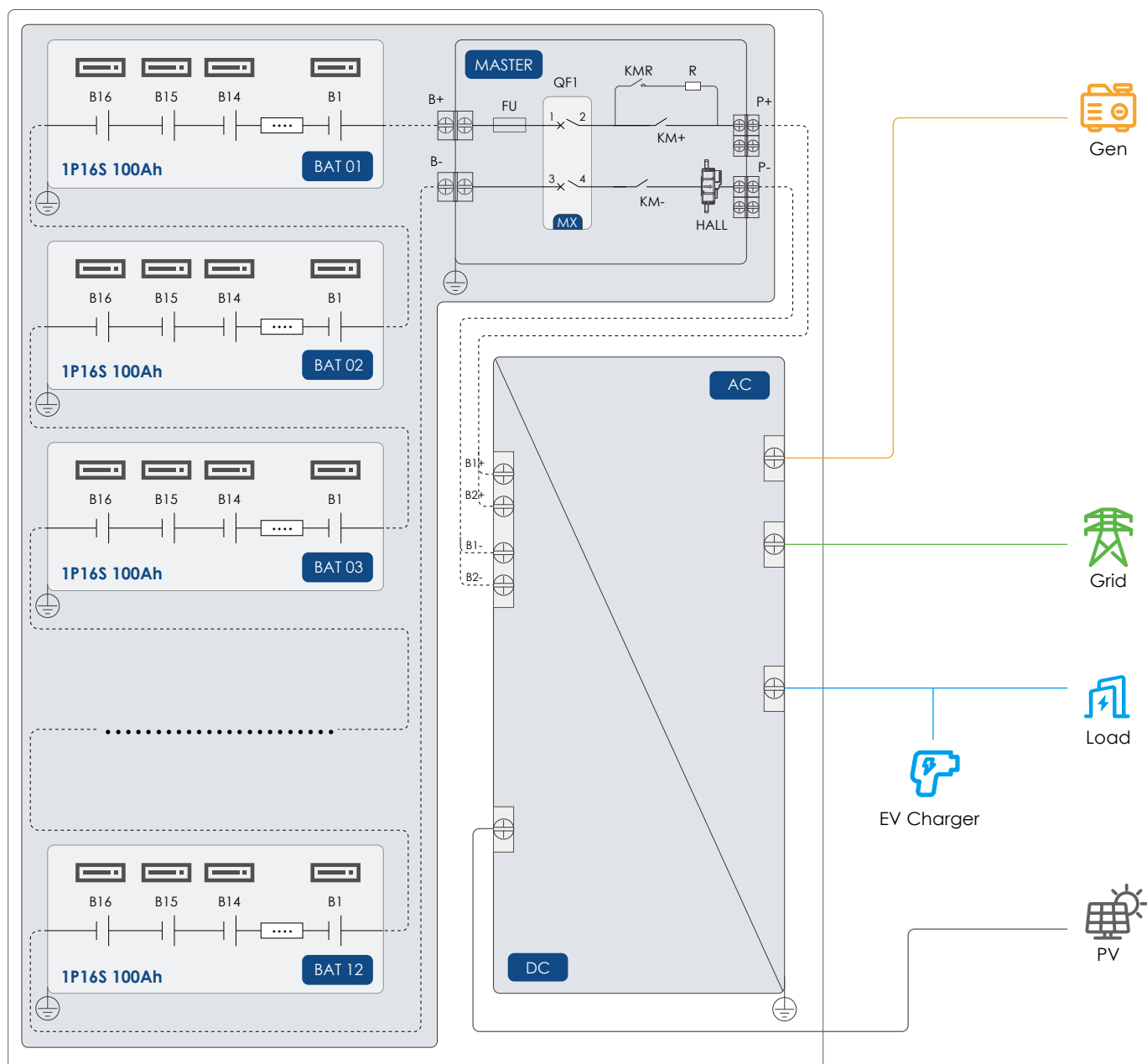
SMART ENERGY MANAGEMENT

- Efficient bms technology.
- Remote monitoring capabilities.

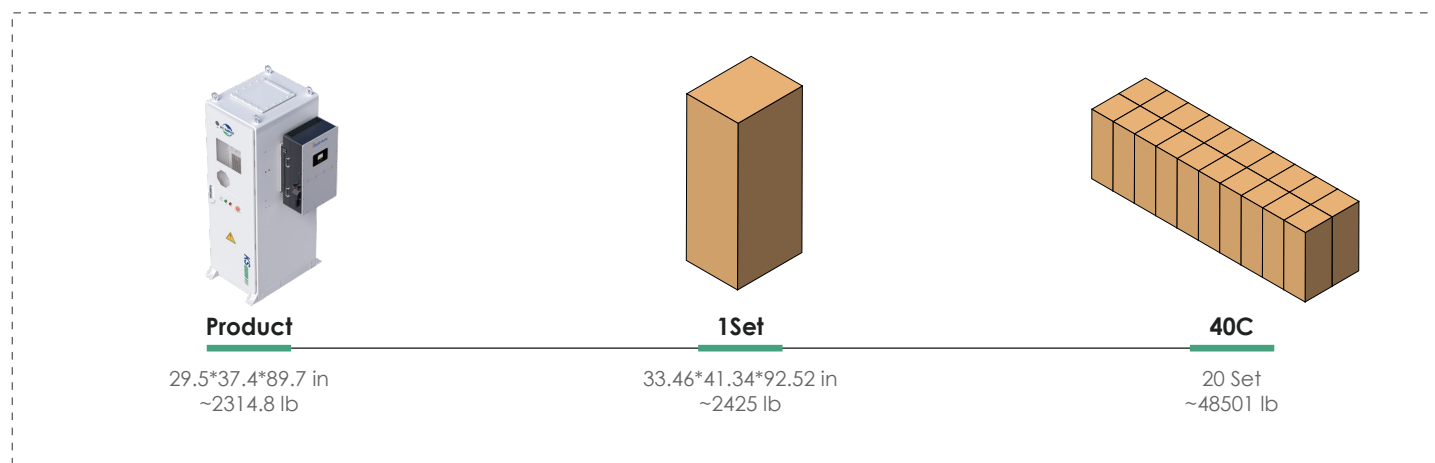
● Max. Parallel/Single System Layout



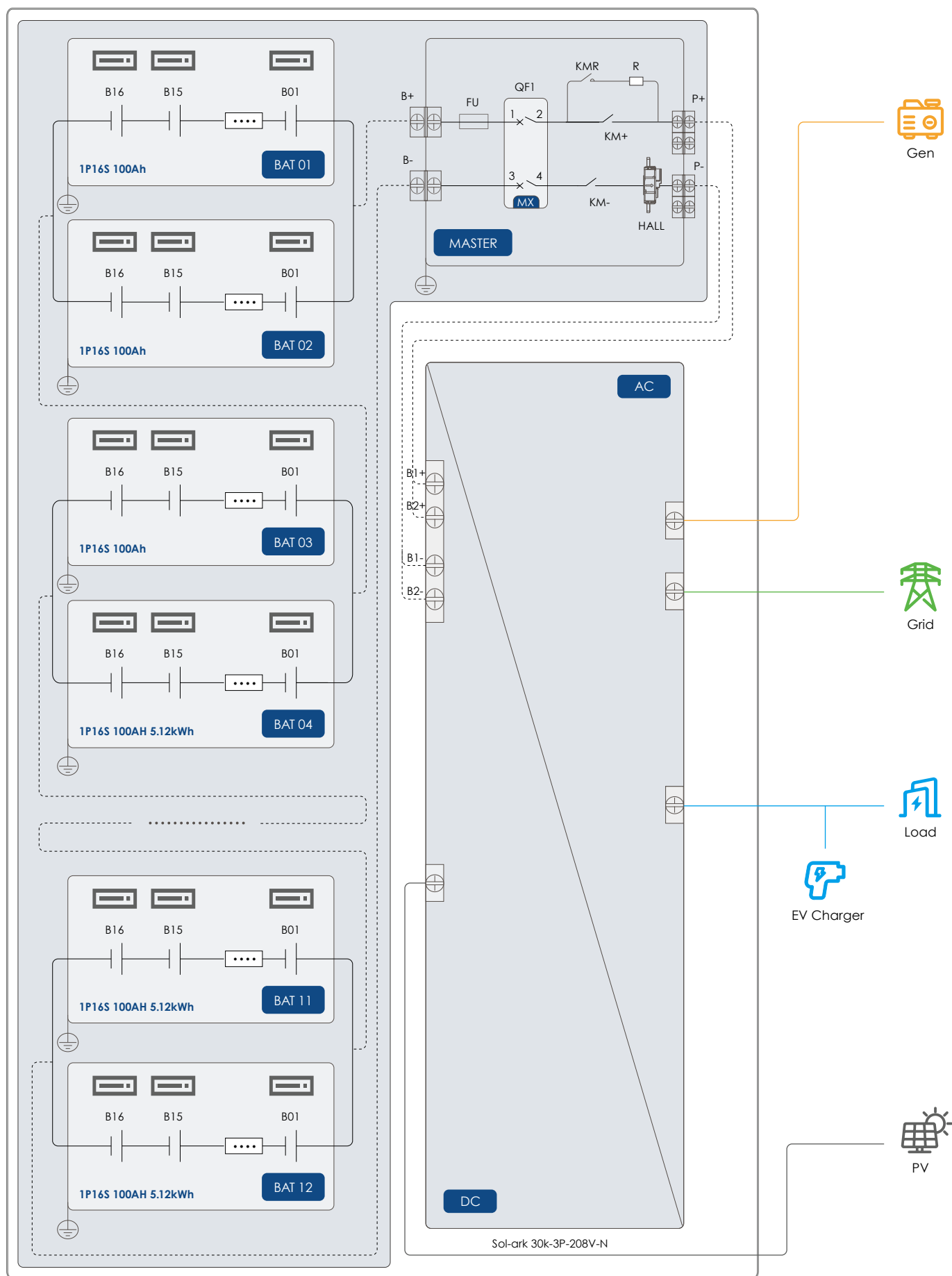
● Product Topology(For 480V System)



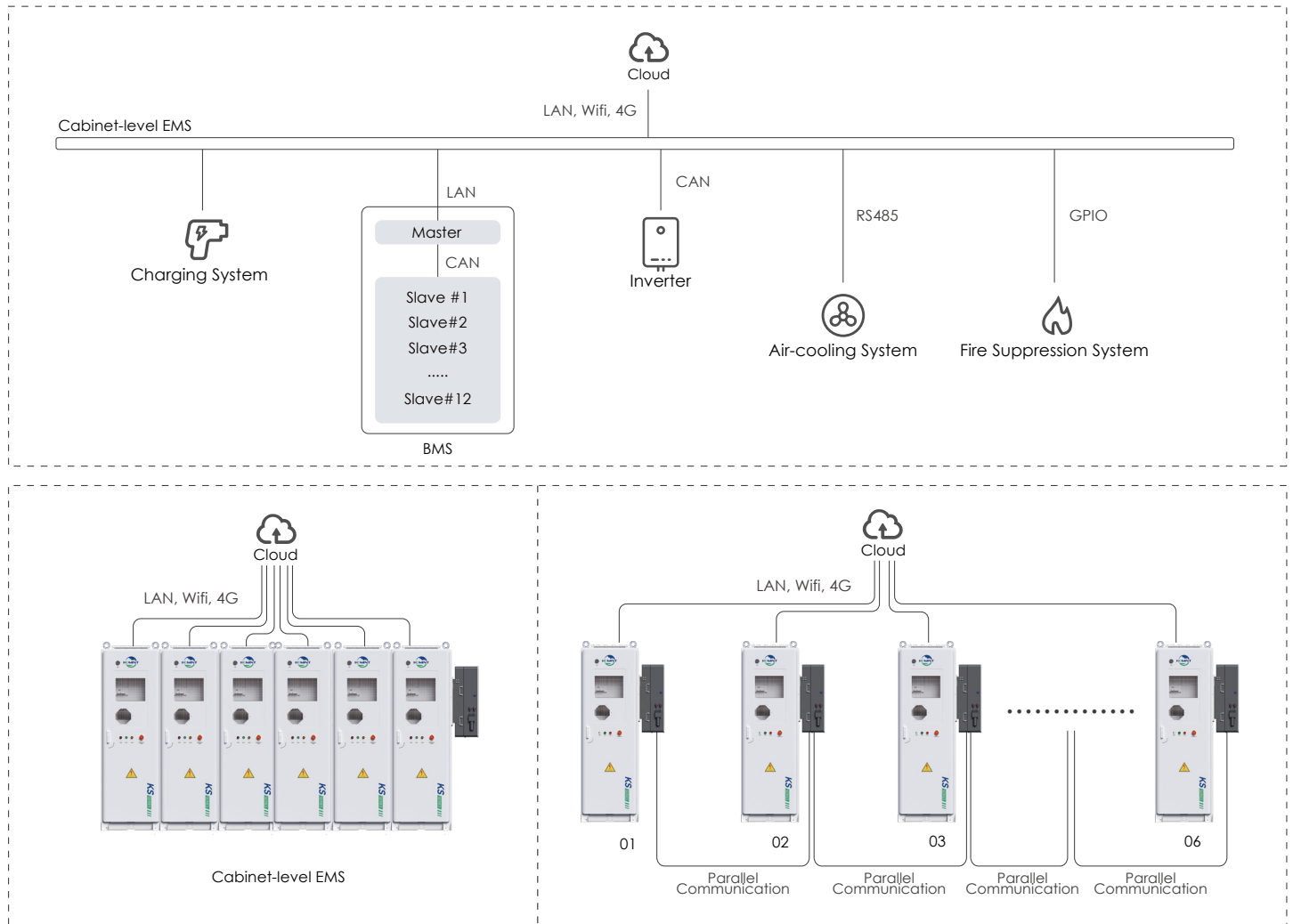
● Packaging & Shipping Details



● Product Topology(For 208V Application)



● Energy Management System(EMS) Structure



● System Demonstration



● Product Specifications (For 480V Application)

Battery Energy Storage

Cell Chemistry	LiFePO4
Module Energy (kWh)	5.12
Module Nominal Voltage (V)	51.2
Module Capacity (Ah)	100
Battery Module Combination	12S1P
System Nominal Voltage (V)	614.4
System Operating Voltage (V)	562.5~681.6
System Energy (kWh)	61.44
Charge/Discharge Current (A)	95

PV Input

Max. Allowed PV Power (STC)(kW)	78
MPPT Voltage Range (V)	150~850
Startup Voltage (V)	180
Max. Input Voltage (V)	1000
Max. Operating Input Current per MPPT (A)	36
Max. Short Circuit Current per MPPT (A)	55
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input (kW)	60

Charging System(Optional)

Charging Type	Charging Mode 3 Case c, level 2
Outlet options	AC Type 1 (SAEJ1772)
Input/Output Current Rating (A)	32 / 48 / 80
Input/Output Power Rating (kW)	7.7 / 11.5 / 19.2@240VAC
Input/output voltage (VAC)	208~240
Input Frequency (Hz)	50/60
Cable Length	16 feet, Optional: 25 feet
Distribution Systems	Single phase, split-phase
Connector Type	L1 + L2 + PE
Certifications	UL2594, UL2231-1, UL2231-2, UL1998 UL991FCC Part 15 Class B, ENERGY STAR

AC Output(On-Grid)

Nominal AC Voltage (3Φ)(V)	277/480
Grid Frequency (Hz)	50 / 60
Real Power, max continuous (3Φ)(kW)	60
Max. Output Current (A)	72.3
Peak Apparent Power (10s, off-grid, 3Φ)(kVA)	90
Max. Grid Passthrough Current (10min)(A)	200
Continuous Grid Passthrough Current (A)	180
Power Factor Output Range	±0.8 adjustable
Backup Transfer Time	5ms (adjustable)
CEC Efficiency	96.5%
Design (DC to AC)	Transformerless DC

General Parameters

Product Model	K-KS061060A1-US
System Scalability	Max. 6 System in Parallel
Dimensions - W*D*H (in)	29.5*37.4*89.7
Weight Approximate (lb)	2314.8
Working Temperature (°C/°F)	30~50/-22~122
Communication Interface	CAN, RS485, Wi-Fi, LTE
Humidity	5%~85%, non-condensation
Altitude	≤4000m/13122ft(2000m/6561ft derating)
IP Rating	IP55
Storage Temperature	-20~35/-4~95
Recommend Depth of Discharge	90%
Cycle Life	>8000 cycles
Warranty	10 years
Certification(Battery)	ANSI/CAN/UL 1973:2022 ANSI/CAN/UL 9540:2020 UL 9540A, FCC Part 15 Subpart B:2023
Certification(Inverter)	UL 1741-2021 (UL1741SB) CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0) UL 1741 CRD-PCS, UL1699B, CEC, SGIP 4

● Product Specifications (For 208V Application)

Battery Energy Storage

Cell Chemistry	LiFePO4
Module Energy (kWh)	5.12
Module Nominal Voltage (V)	51.2
Module Capacity (Ah)	100
Battery Module Combination	6S2P
System Nominal Voltage (V)	307.2
System Operating Voltage (V)	281.3~340.8
System Energy (kWh)	61.44
Charge/Discharge Current (A)	95

PV Input

Max. Allowed PV Power (STC)(kW)	39
MPPT Voltage Range (V)	150~500
Startup Voltage (V)	180
Max. Input Voltage (V)	550
Max. Operating Input Current per MPPT (A)	36
Max. Short Circuit Current per MPPT (A)	55
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input (kW)	30

Charging System(Optional)

Charging Type	Charging Mode 3 Case c, level 2
Outlet options	AC Type 1 (SAEJ1772)
Input/Output Current Rating (A)	32 / 48 / 80
Input/Output Power Rating (kW)	7.7 / 11.5 / 19.2@240VAC
Input/output voltage (VAC)	208~240
Input Frequency (Hz)	50/60
Cable Length	16 feet, Optional: 25 feet
Distribution Systems	Single phase, split-phase
Connector Type	L1 + L2 + PE
Certifications	UL2594, UL2231-1, UL2231-2, UL1998 UL991FCC Part 15 Class B, ENERGY STAR

AC Output(On-Grid)

Nominal AC Voltage (3Φ)(V)	120/208
Grid Frequency (Hz)	50 / 60
Real Power, max continuous (3Φ)(kW)	30
Max. Output Current (A)	83.4
Peak Apparent Power (10s, off-grid, 3Φ)(kVA)	45
Max. Grid Passthrough Current (10min)(A)	200
Continuous Grid Passthrough Current (A)	180
Power Factor Output Range	±0.8 adjustable
Backup Transfer Time	5ms (adjustable)
CEC Efficiency	96.5%
Design (DC to AC)	Transformerless DC

General Parameters

Product Model	K-KS061030A1-US
System Scalability	Up to 6 in parallel
Dimensions - W*D*H (in)	29.5*37.4*89.7
Weight Approximate (lb)	2314.8
Working Temperature (°C/°F)	30~50/-22~122
Communication Interface	CAN, RS485, Wi-Fi, LTE
Humidity	5%~85%, non-condensation
Altitude	≤4000m/13122ft(2000m/6561ft derating)
IP Rating	IP55
Storage Temperature	-20~35/-4~95
Recommend Depth of Discharge	90%
Cycle Life	>8000 cycles
Warranty	10 years
Certification(Battery)	ANSI/CAN/UL 1973:2022 ANSI/CAN/UL 9540:2020 UL 9540A, FCC Part 15 Subpart B:2023
Certification(Inverter)	UL 1741-2021 (UL1741SB) CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0) UL 1741 CRD-PCS, UL1699B, CEC, SGIP 4

233kWh Liquid-Cooling LiFePO4 Battery

KS-233A



HIGH PERFORMANCE

- High-efficiency liquid cooling.



FLEXIBLE APPLICATION

- Efficient BMS technology.



SAFE AND RELIABLE

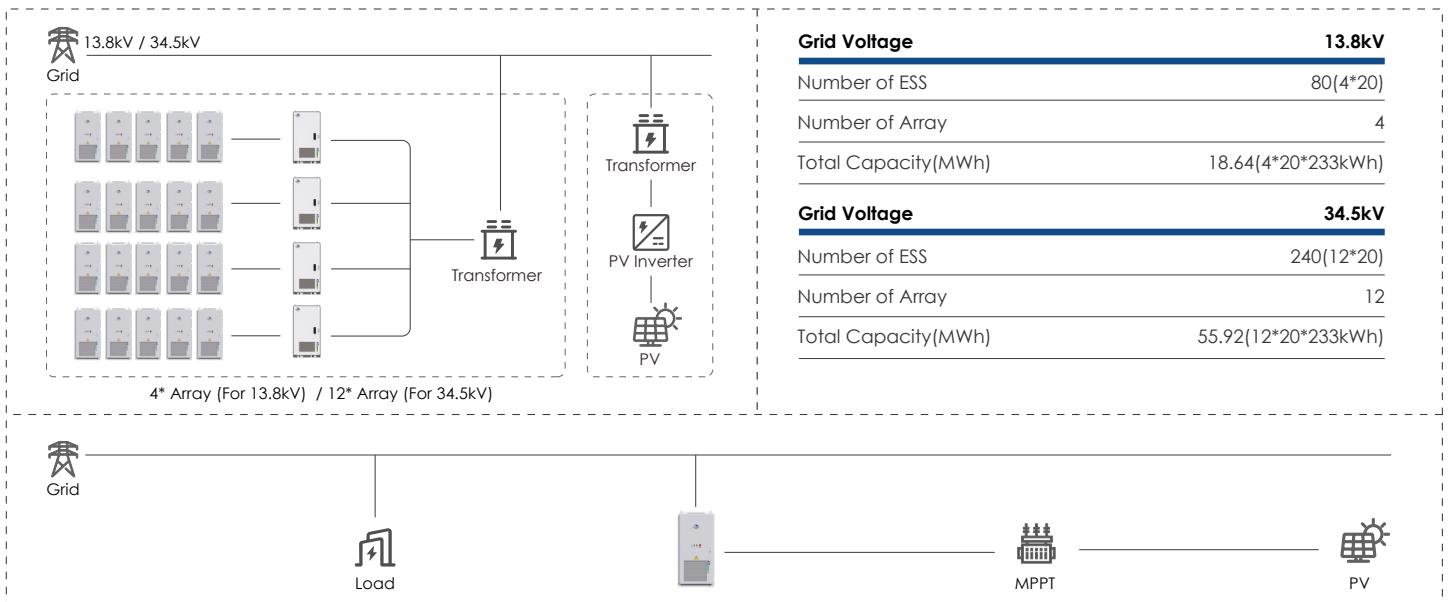
- Battery monitoring, fire prevention, a top venting design.
- Ai management.



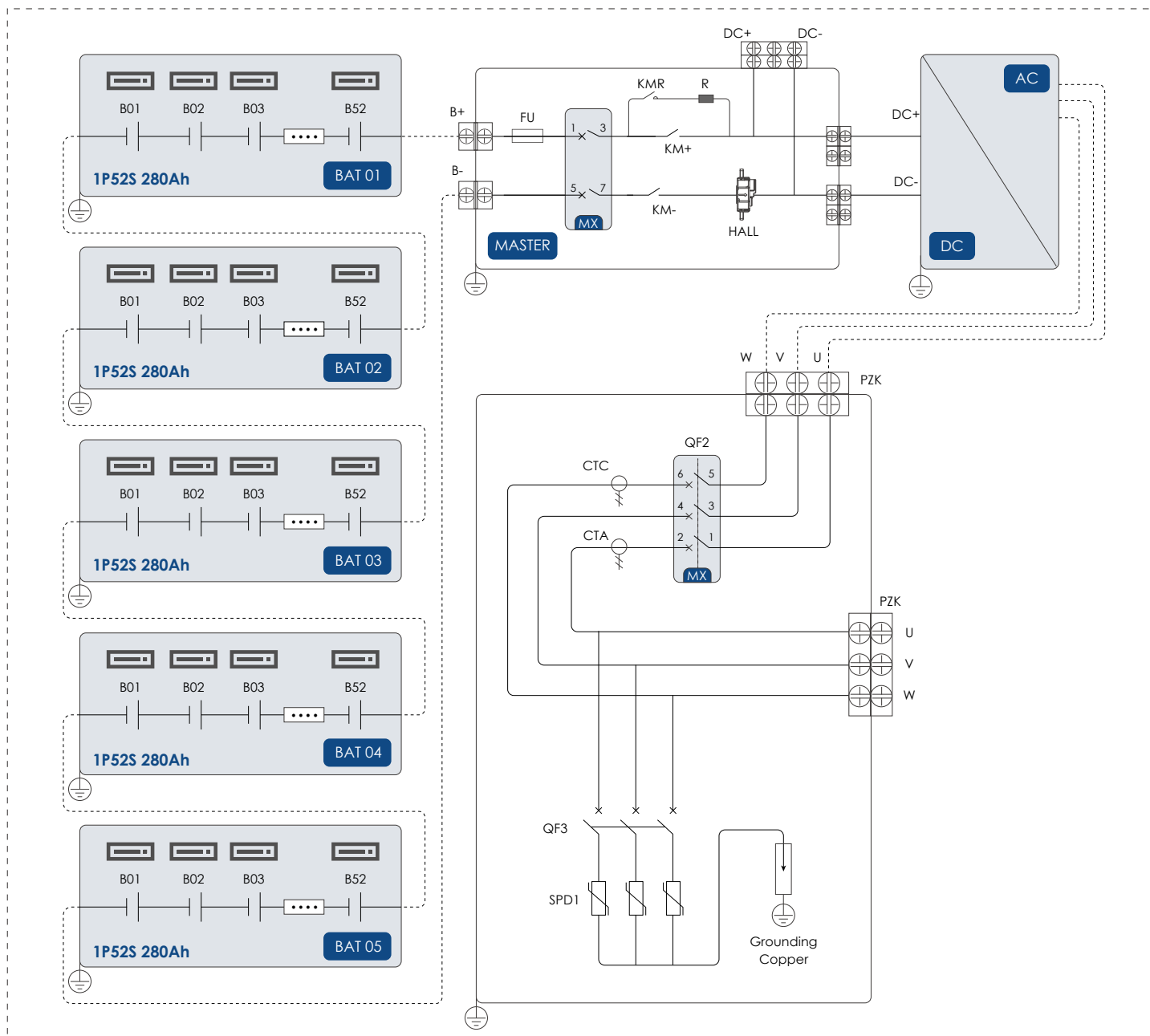
EASY INSTALLATION

- Modular design for ease of expansion.

Max. Parallel/Single System Layout



● Product Topology(For 480V System)

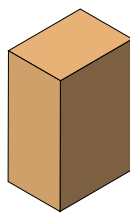


● Packaging & Shipping Details



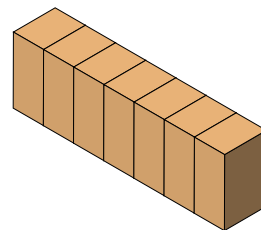
Product

~43*57.3*93.4in
~5952.5lb



1Set

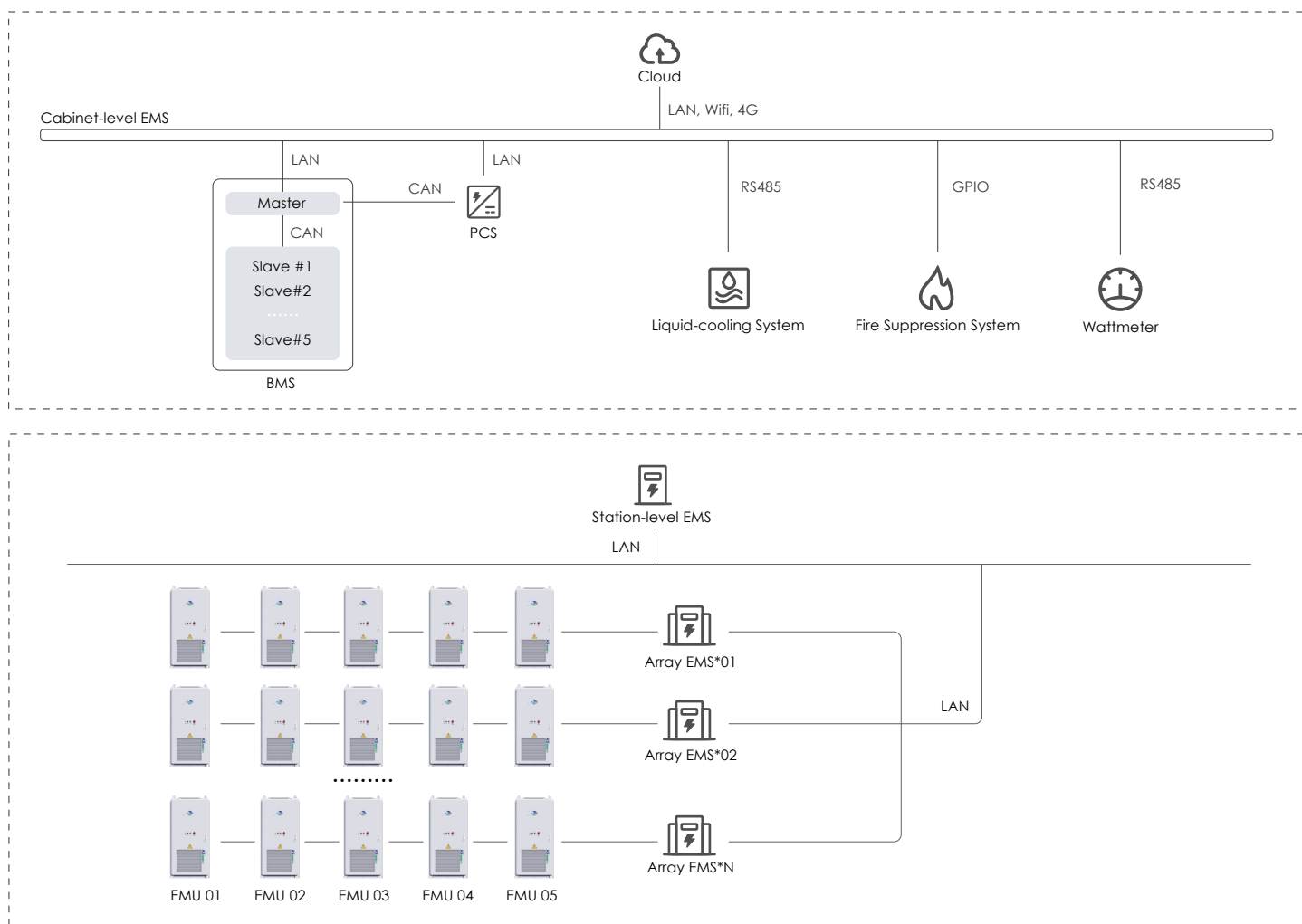
49.21*71*99.2 in
~7055 lb



40C

7 Set
~49383.5 lb

● Energy Management System(EMS) Structure



● System Demonstration



● Product Specifications

Battery Energy Storage

Cell Type	LFP 3.2V / 280Ah
Module Combination	1P52S
System Combination (Modules)	5 in series
Capacity (kWh)	233
Nominal Voltage (V)	832
Operation Voltage Range (Vdc)	761~923
Discharge Depth	90% DoD
Thermal Management Mode	liquid-cooling
Thermal Control Management	Aerosol Extinguishing

AC Output

Rated AC Output Power (kW)	125
Max. AC Output Power (kVA)	137.5
Rated Output Voltage (Vac)	480
Output Voltage Range (Vac)	-15%~10%(settable)
Rated Grid Frequency (Hz)	60(settable)
Max. Output Current (A)	165.4
Adjustable Power Factor	>0.99
THDi	<3%

DC Input/Output

Max. Power (kW)	250
Voltage Range (V)	761~923
Max. Current (A)	320

System Characteristic

Communication Interface	CAN, RS485, Wi-Fi, LTE
Warranty	5 years
Certifications	ANSI/CAN/UL 1973:2022, ANSI/CAN/UL 9540:2020, UL 9540A:2019, UL 1741:2012 Ed.3+R:19May2023 UL 1741:2021 Ed.3(Supplement SB), CSA C22.2#107.1:2016 Ed.4+U1, IEEE 1547:2018,IEEE 1547.1:2020

General Parameters

Battery Model	K-KS233125A0-US
Dimensions - W*D*H (in)	43*57.3*93.4
Total Weight (lb)	5798(±10%)
Operation Altitude	≤4000m/13122ft(2000m/6561ft derating)
Noise Level @1m	<75 dB(A)
IP Rating	IP54
Operating Temperature(°C/°F)	-20~55/-4~131
Operating Humidity (RH)	0 to 95%, non-condensation
Storage Conditions	-20-30°C/-4-86°F, Up to 95% RH, non-condensation, State of Energy (SoE): 50% initial

AC Combiner Cabinet System

KS-233CG



EFFICIENT POWER ROUTING

- Smart control for charge/discharge.
- Supports multi-loop battery & DC bus.



SECURE GRID INTERFACE

- Grid-tied cabinet without PCS.
- Stable, safe energy storage connection.



SAFE AND RELIABLE

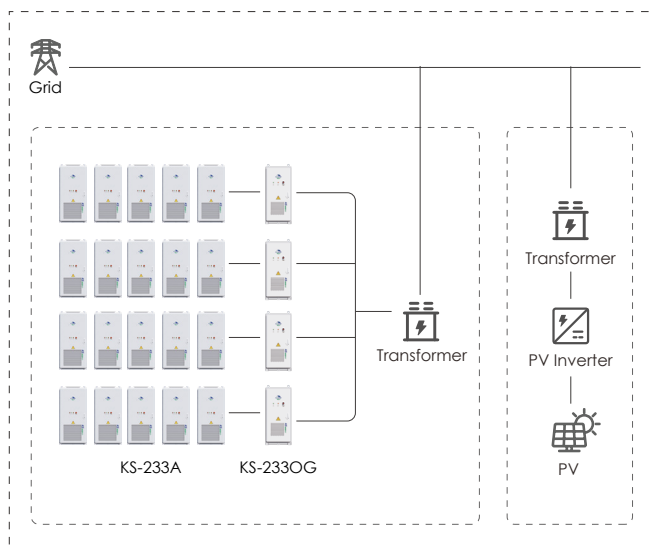
- IP54 design, minimize external environmental impact.
- Grid-tied cabinet without pcs.



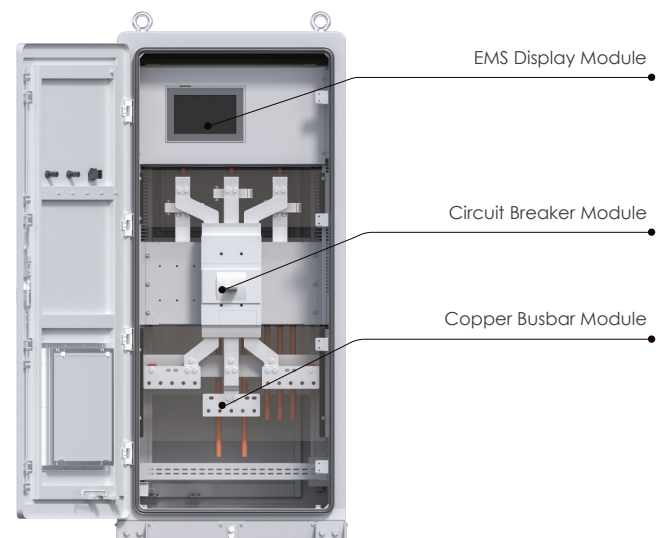
SMART ENERGY MANAGEMENT

- HMI with modbus tcp/iec 61850.
- EMS/SCADA integration ready.

System Layout



System Demonstration



● Product Specifications

Product Parameter

Input Voltage (Vac)	480
Access Channel	5
Output Channel	1
Rated Power (kW)	625
Rated Current(A)	751
Anti-backflow Protection for Power Grid	Functions Included
Pcs (Power Conversion System) Switch (A)	250
Grid Switch, Load Switch (A)	1000

General Parameters

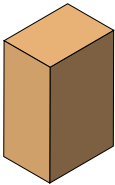
Battery Model	K-CG625ACC01-US
IP Rating	IP54
Dimensions - W*D*H (in)	~31.5*42.52*70.87
Total Weight (lb)	~983
Operating Temperature(°C/°F)	-20~-55/-4~131
Storage Temperature(°C/°F)	-20~35/-4~95
Relative Humidity (RH)	0~95%
Altitude	≤2000m / 6561ft
Noise Level @1m	<65 dB(A)
Communication Interface	RS485, CAN, LAN
Specifications Matched for Energy Storage Systems	233kWh ESS, Supports Parallel Connection of Up to 5 Units

● Packaging & Shipping Details



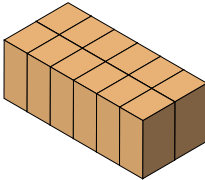
Product

~31.5*42.52*70.87 in
~983 lb



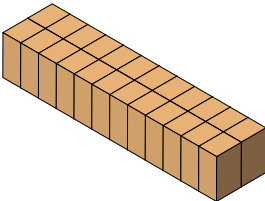
1Set

~49.21*42.5*74.8 in
~1212.5 lb



20C

12 Set
~14544 lb



40C

24 Set
~29088 lb

On/Off Grid Switching Combiner System

KS-233AG



HIGH PERFORMANCE

- Auto switchover between on-grid and off-grid.
- Ensures uninterrupted power during outages.



EXPANDABLE DESIGN

- Modular setup for easy install and scaling.
- Simplifies future upgrades and maintenance.



SAFE AND RELIABLE

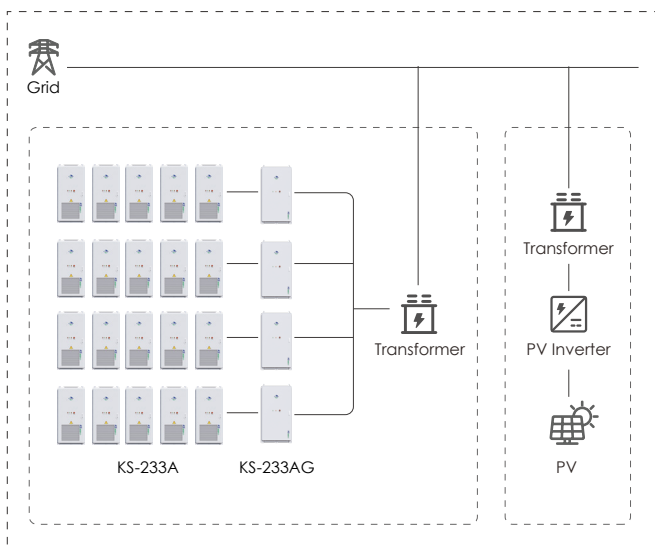
- IP54 design, minimize external environmental impact.
- Full-system safety assurance.



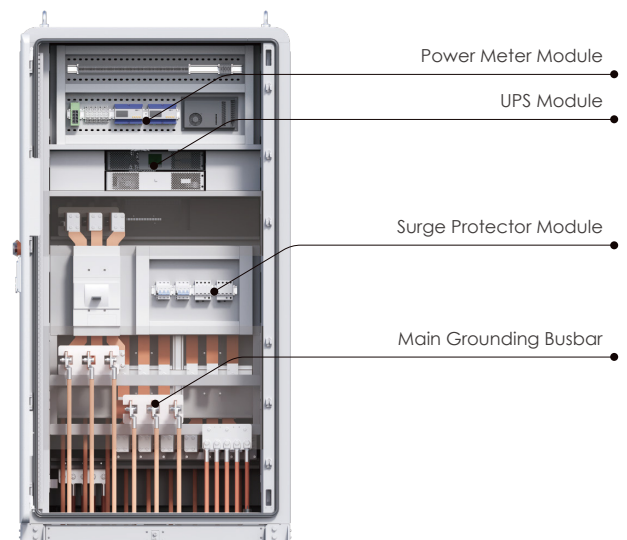
REMOTE CONTROL READY

- Real-time monitoring and remote operation.
- Enhances system management and diagnostics.

System Layout



System Demonstration



● Product Specifications

Product Parameter

Input Voltage (Vac)	480
Access Channel	5
Output Channel	1
Rated Power (kW)	625
Rated Current(A)	751
Grid-connected and Off-grid Switching Time	≤3min
Anti-backflow Protection for Power Grid	Functions Included
Pcs (Power Conversion System) Switch (A)	250
Grid Switch, Load Switch (A)	1000

General Parameters

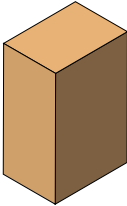
Battery Model	K-AG625ACC01-US
IP Rating	IP54
Dimensions - W*D*H (in)	47.2*57.3*90.6
Total Weight (lb)	~2636
Operating Temperature (°C/°F)	-20~55/-4~131
Storage Temperature (°C/°F)	-20~35/-4~95
Relative Humidity (RH)	0~95%
Altitude	≤2000m/6561ft
Noise Level @1m	<65 dB(A)
Communication Interface	RS485, CAN, LAN
Specifications Matched for Energy Storage Systems	233kWh ESS, Supports Parallel Connection of Up to 5 Units

● Packaging & Shipping Details



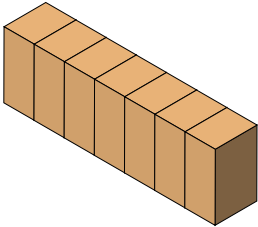
Product

~47.2*57.3*90.6 in
~2636 lb



1Set

52*64.7*99.6 in
~2910 lb



40C

8 Set
~23280 lb

MPPT Combiner System

KS-600MPC



ADVANCED MPPT TRACKING

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



COMPLETE DC PROTECTION

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



DYNAMIC POWER CONTROL

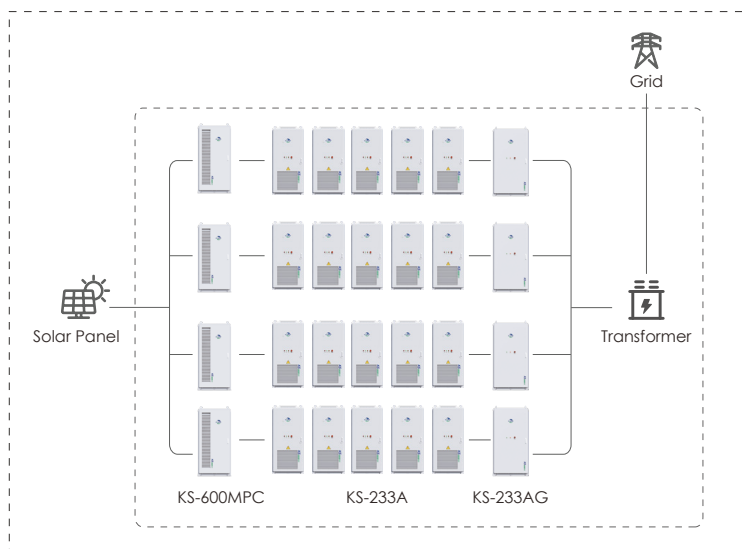
- Seamless PCS & EMS integration.
- Optimizes energy flow and output.



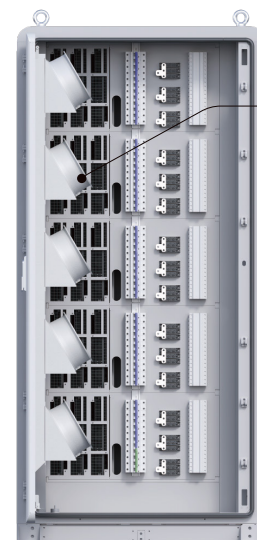
ENHANCED SYSTEM SAFETY

- IP54 design, minimize external environmental impact.
- Boosts long-term system reliability.

System Layout



System Demonstration



DCDC Module

● Product Specifications

PV Input

Input Voltage (Vdc)	400~750
The Max. Static Voltage Borne under No Operation (Vdc)	850
Rated Voltage (Vdc)	750
MPPT Operating Voltage Range (Vdc)	400~750
MPPT Full Load Voltage Range (Vdc)	400~750
MPPT Starting Voltage (V)	400
MPPT Efficiency	95.50%
Max. Input Current (Adc)	110*15
Number of MPPT	15
No. of PV Strings per MPP Trackers	4

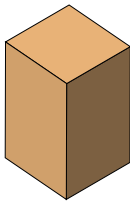
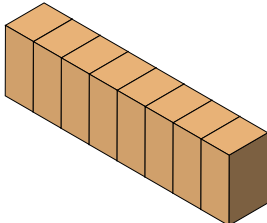
DC Output

Individual Module Output Power(kW)	40
Max. Number of Modules	15
Total Output Power (kW)	600
Output Voltage Range (Vdc)	50 ~ 1000
Output Current Range (Adc)	0~133.3@Per MPPT
Voltage Regulation Accuracy	<±0.5%(150~1000V, 0~20MHz)
Precision of Steady Current	≤±1%(Outputload 20%~100%)
Voltage Ripple Factor	≤1%

General Parameters

Product Model	K-MPC600PVC01-US
Type of Cooling	Forced Air-cooling
Dimensions - W*D*H (in)	43.31*37.8*90.5
Total Weight (lb)	~2866
Communication Interface	CAN bus, LAN
Altitude	≤2000m/6561ft
Noise Level @1m	<75 dB(A)
IP Rating	IP54
Operating Temperature (°C/°F)	-20~55/-4~131 (above 55°C/131°F needs to be reduced)
Storage Temperature (°C/°F)	-20~35/-4~95
Relative Humidity	≤95%RH, non-condensing

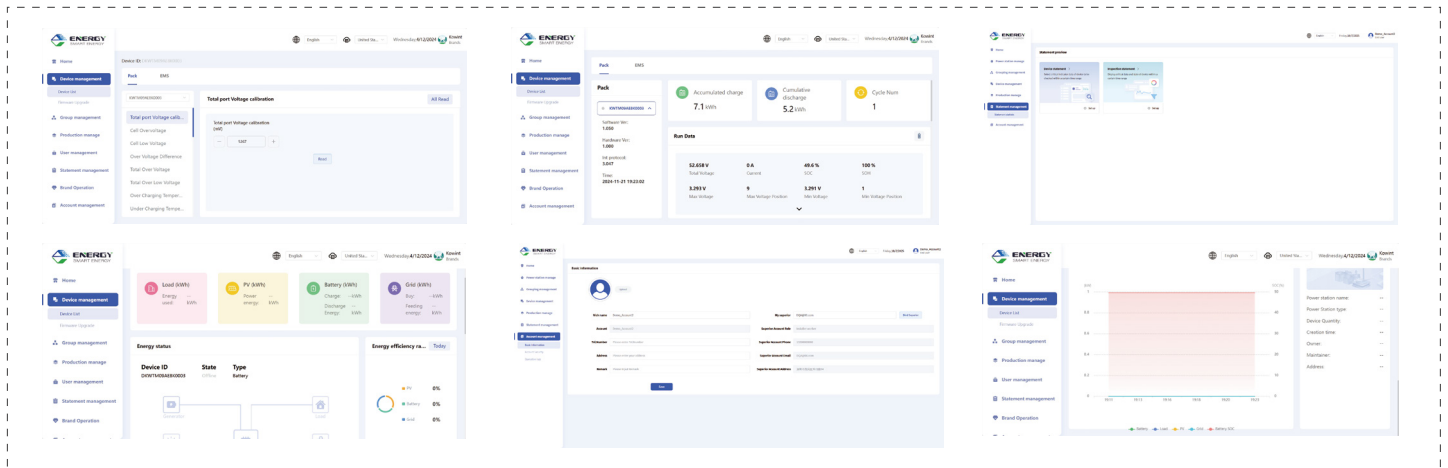
● Packaging & Shipping Details

		
Product	1Set	40C
~43.31*37.8*90.5 in ~2866 lb	47.2*43.3*94.5 in ~3086 lb	8 Set ~24688 lb

Kowint EMS

Remote Monitoring System

Web Dashboard



Instant Clarity With Remote Data Monitoring And Analysis

- Remote data monitoring, automatic curve generation, and big data analysis management make the product operation status clear at a glance.



Boost Customer Satisfaction With Remote firmware Upgrades

- Remote firmware upgrading and intelligent operation and maintenance report generation effectively improve customer satisfaction.



Enhanced Security With Distributed Architecture And Data Encryption

- Distributed architecture deployment and data security encryption ensure that cloud data is more secure and reliable.



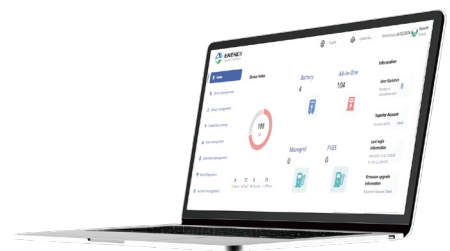
Optimized Channel Construction With Six-level Distribution System

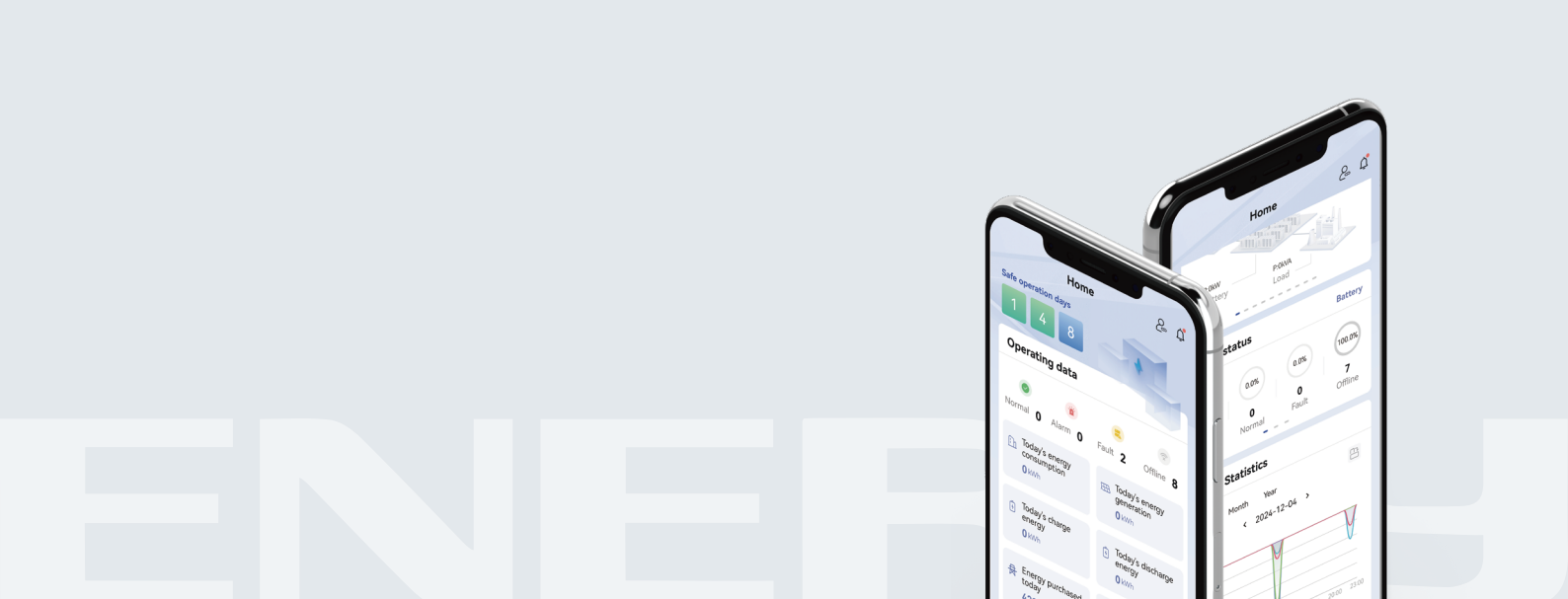
- The six-level distribution system, from the brand owner to end users, is more conducive to robust product channel construction.



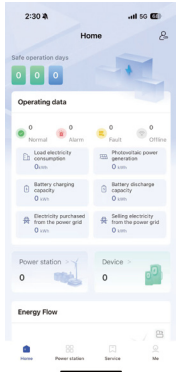
Seamless Connections With Intelligent Mall And Trial Applications

- Intelligent mall application and new product trial application enable users to contact source manufacturers directly, making product promotion faster and more accurate.

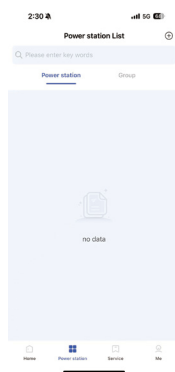




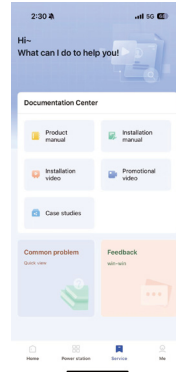
● Mobile App- Smart Energy APP



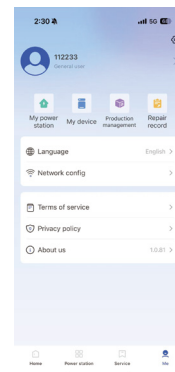
1.Home Page
Status visibility, energy data, grid interaction, and safety tracking.



2.Power station
Status visibility, energy data, grid interaction, and safety tracking.



3.Service
Comprehensive support hub with manuals, videos, case studies, FAQs, and feedback.



4.Profile Page
Centralized user center for station/device management, settings, and account services.



End-users

Monitor energy, get alerts, track savings.



Installers / EPC

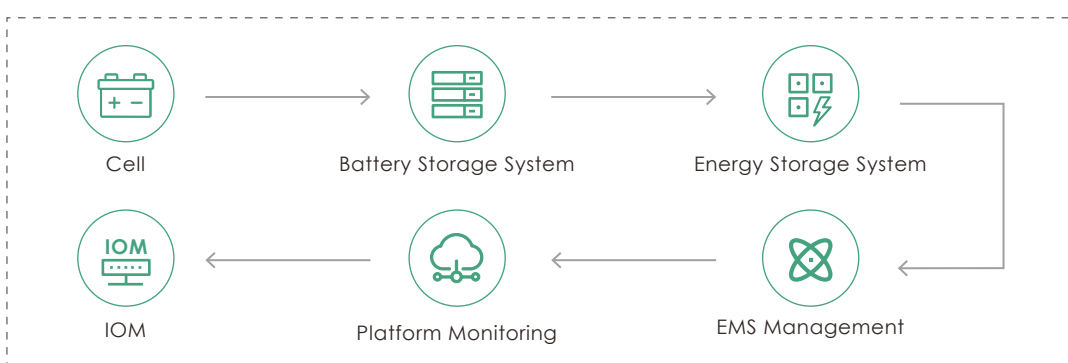
Fast setup, remote checks, multi-site view.



Distributors / Partners

Fleet monitoring, OTA updates, data insights.

● Physical Link



Kowint EMS

Local EMS



High-brightness touch display



Robust and durable design



Flexible cloud connectivity



High-performance data processing



Advanced graphics and AI

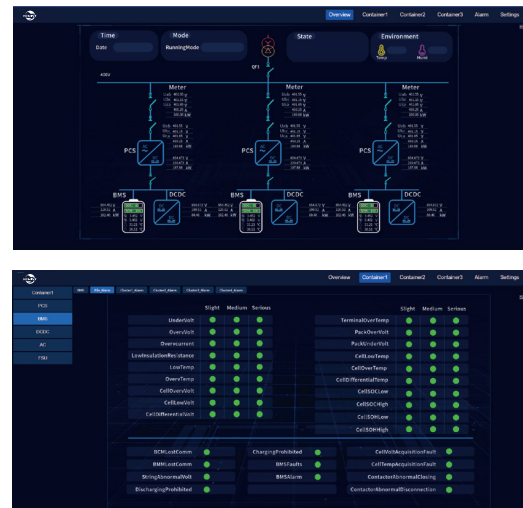


Comprehensive communication interfaces

Procontrol Prime



Procontrol Base



Cabinet Level Local EMS

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

Station Level Local EMS

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

KOWIT

Exhibition Highlights

Intersolar Europe

2023



RE+ North America

2024



Intersolar South America

2024



Intersolar Mexico

2024



Intersolar Europe

2024



Installation

Cases

● Modular LV ESS



● Wall-mount ESS



● Rack-mount ESS





● KS-60A



● KS-233A



Warehouse Network



US WAREHOUSE

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

US WAREHOUSE

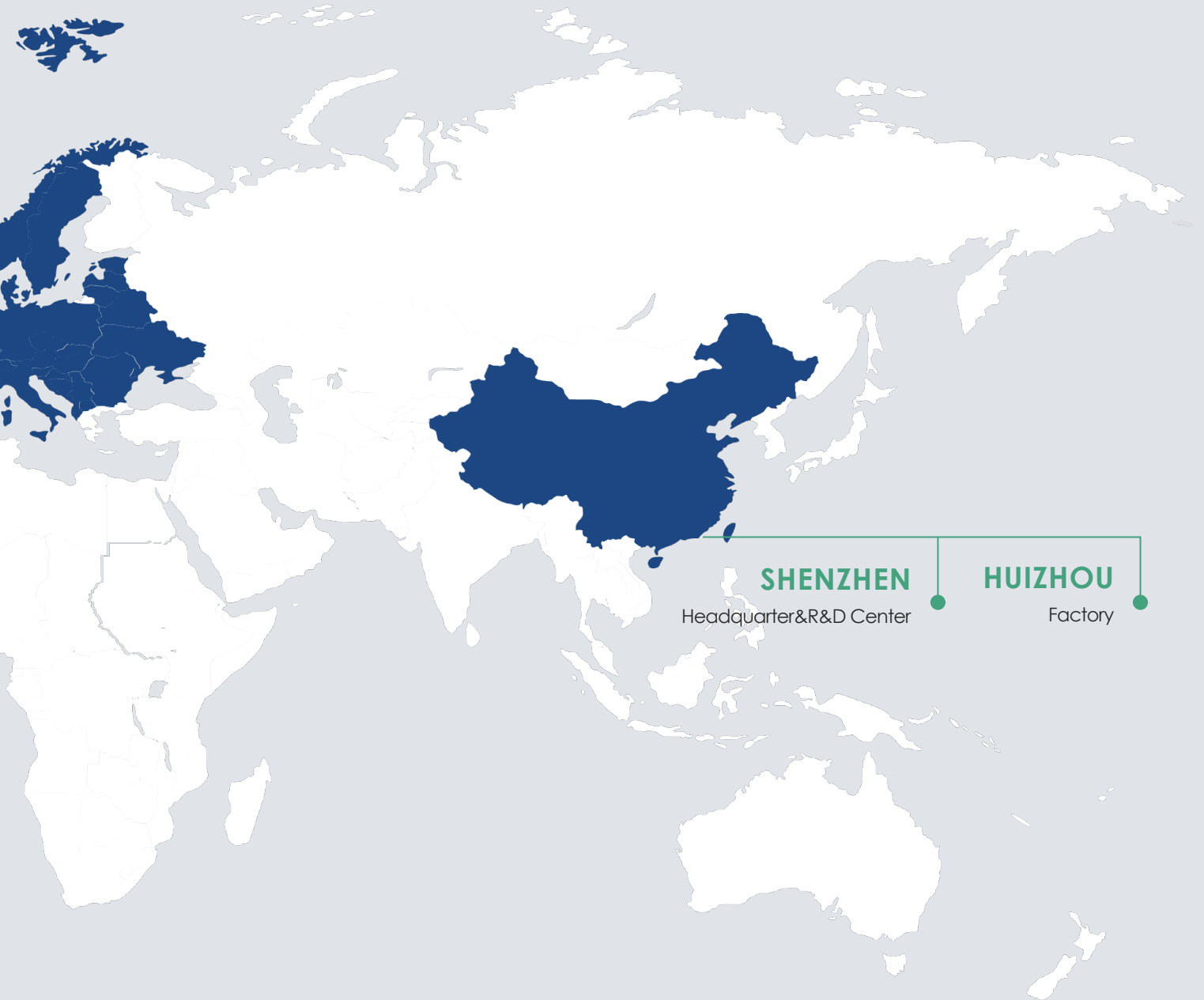
200 Interchange Blvd Newark DE 19711,US

GERMANY WAREHOUSE

Schauenburger straBe 9 Halle3 Pinneberg, schleswig Holstein

● NETHERLANDS WAREHOUSE

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