

YOUR GREEN ENERGY MANUFACTURER



Commercial & Industrial (for US)

Energy Storage Solution



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

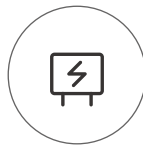
MAIN BUSINESS



Residential Solution



C&I Solution



UPS Solution



CONTENTS

To produce world-class energy storage products
To serve the consumers in the global market



01 Battery Storage System

KS-60A	01
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02 AC Combiner System

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60kWh Air-Cooling Battery

KS-60A



HIGH PERFORMANCE

- >8000 life cycles.



SAFE AND RELIABLE

- IP55 design, minimize external environmental impact.



FLEXIBLE APPLICATION

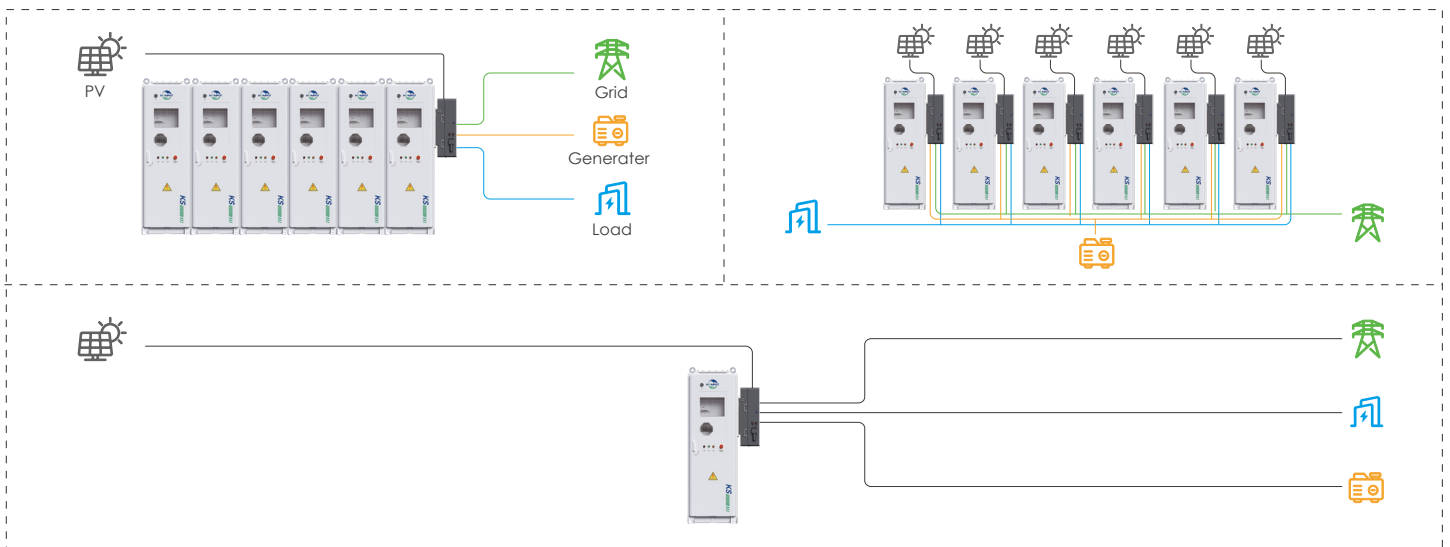
- Modular design for ease of expansion.
- Off-grid ops.



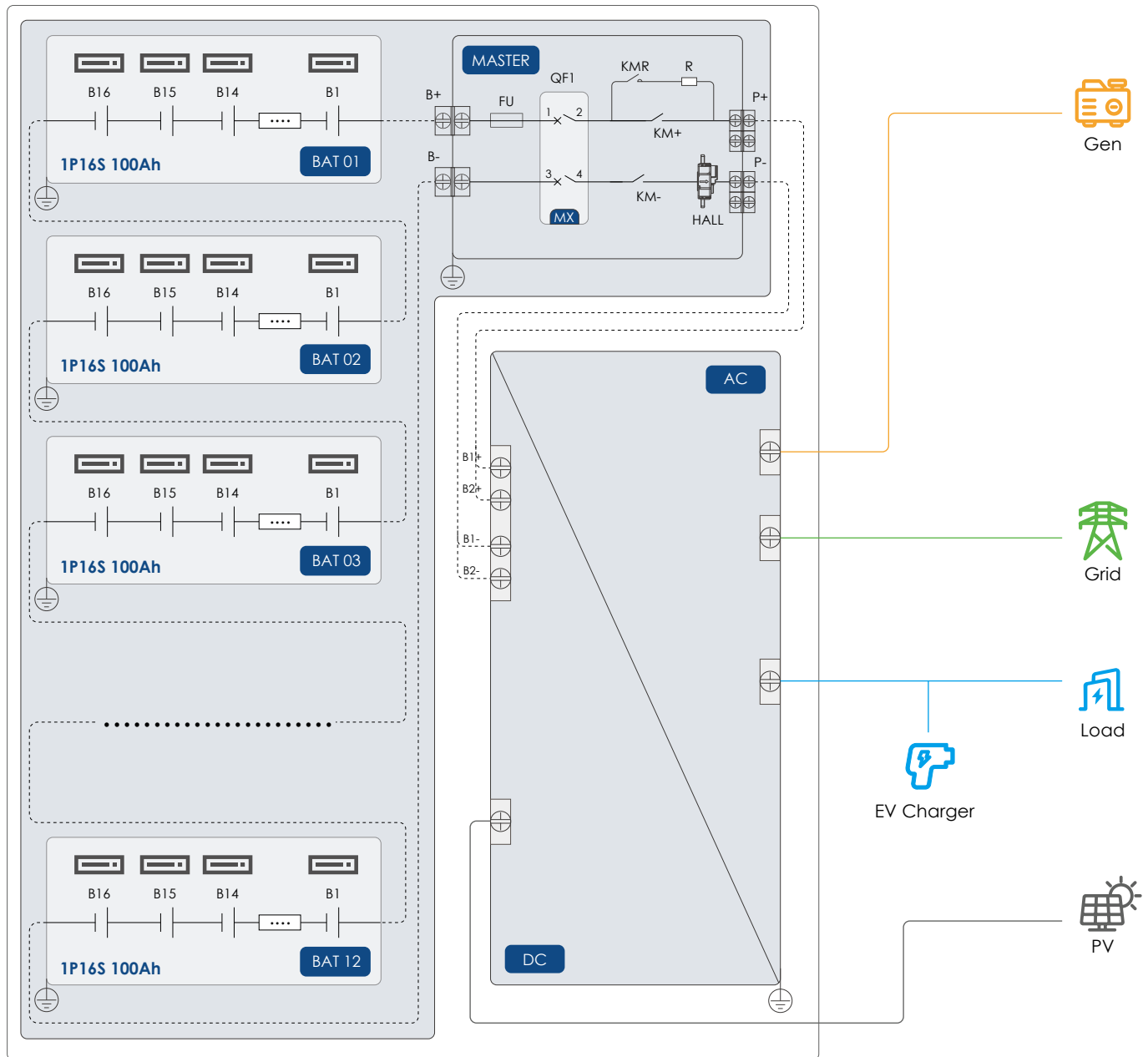
SMART ENERGY MANAGEMENT

- Efficient bms technology.
- Remote monitoring capabilities.

● Max. Parallel/Single System Layout



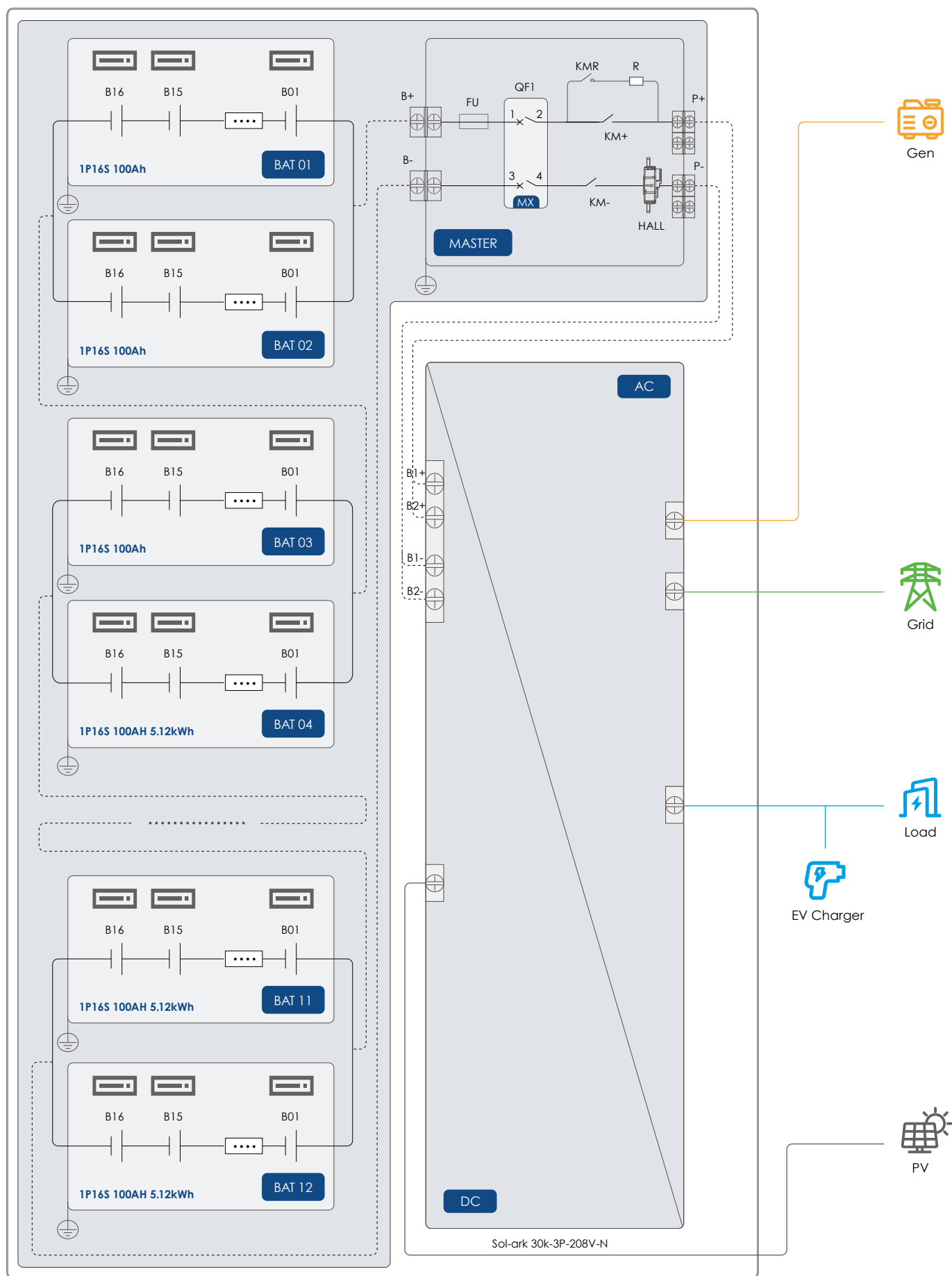
● Product Topology(For 480V System)



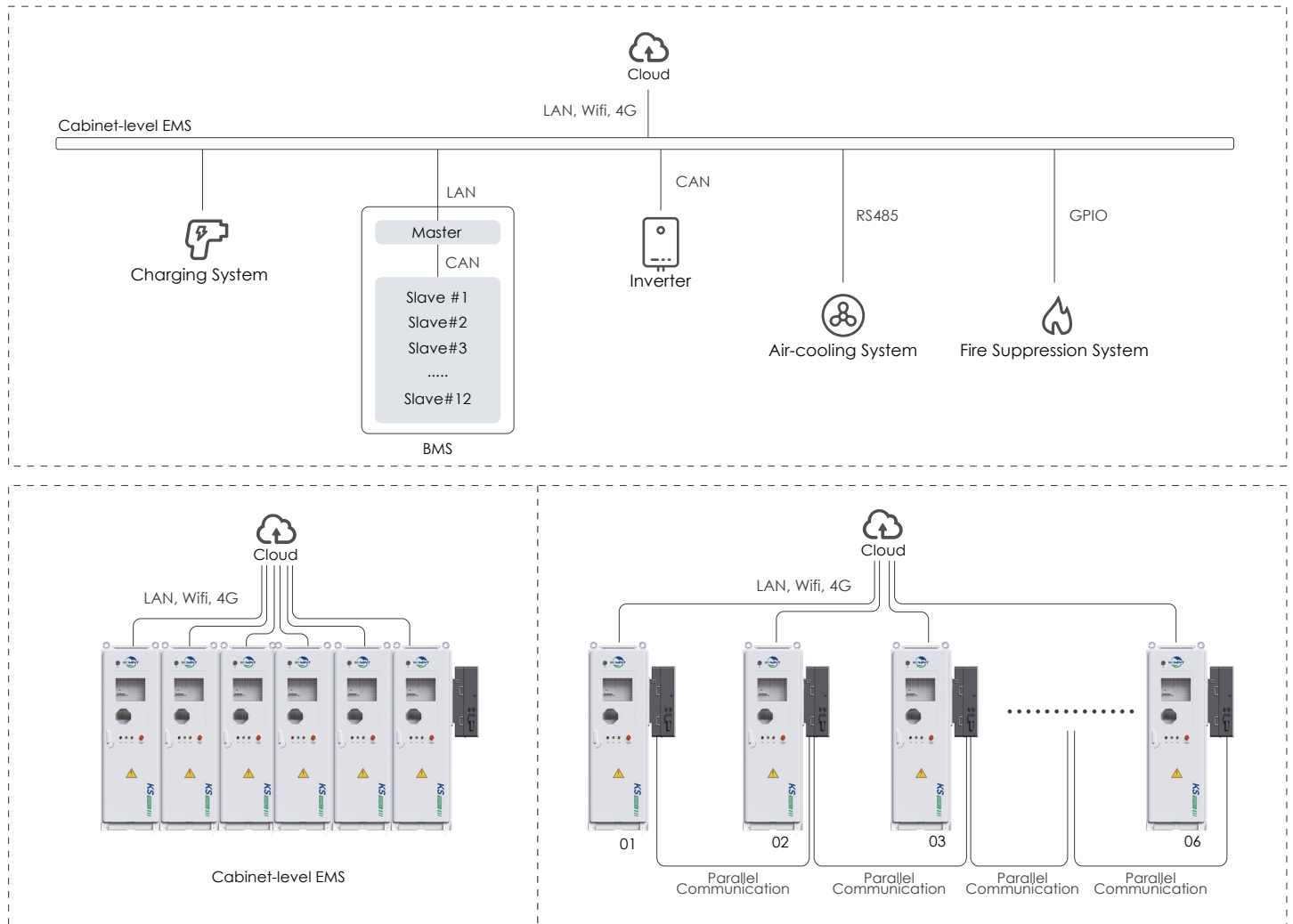
● Packaging & Shipping Details

Product	1Set	40C
29.5*37.4*89.7 in ~2314.8 lb	33.46*41.34*92.52 in ~2425 lb	20 Set ~48501 lb

● 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
Dimension - 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
Dimension - 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 Battery

KS-233A



HIGH PERFORMANCE

- High-efficiency liquid cooling.



FLEXIBLE APPLICATION

- Efficient BMS technology.



SAFE AND RELIABLE

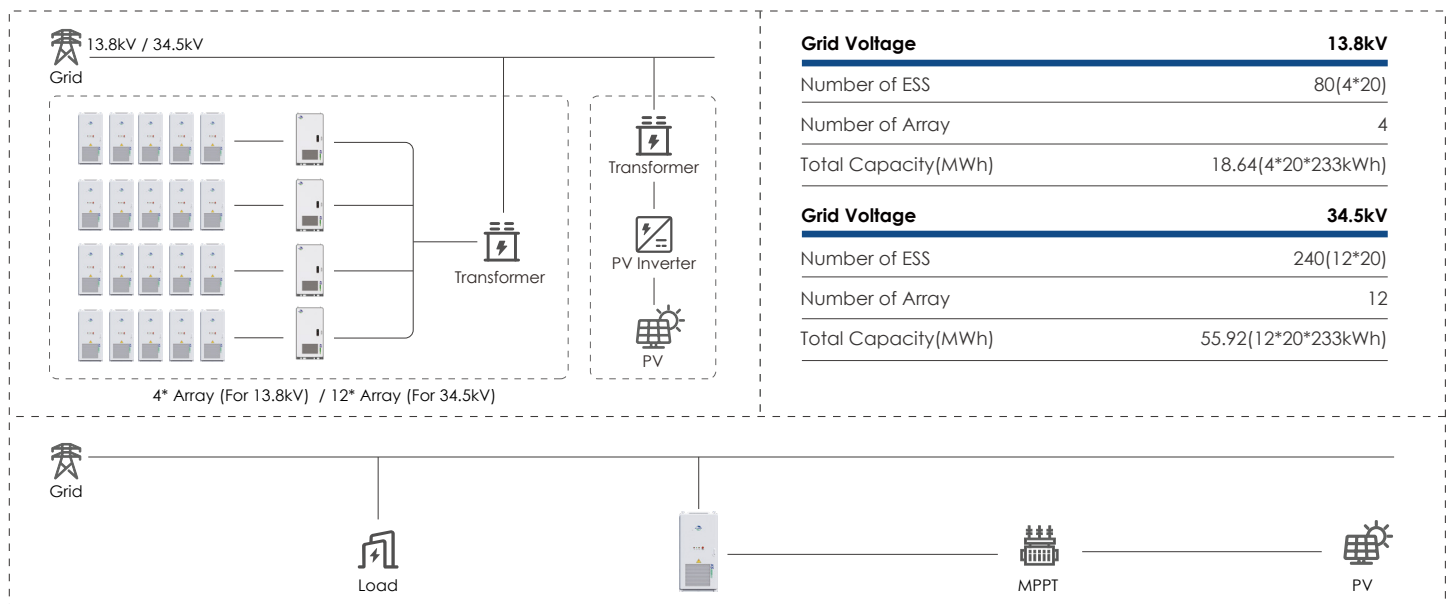
- Battery monitoring, fire prevention, a top venting design.
- Ai management.



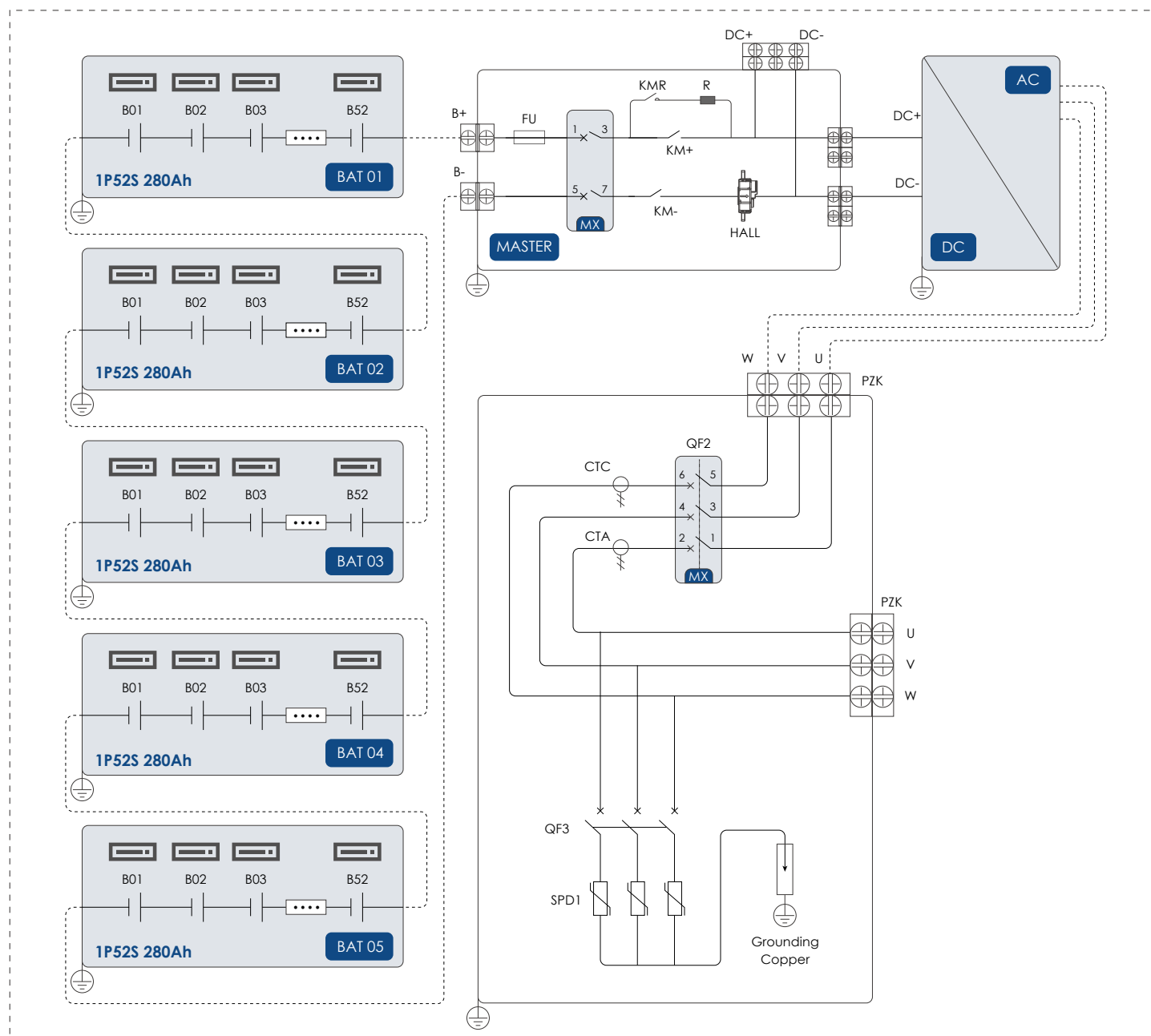
EASY INSTALLATION

- Modular design for ease of expansion.

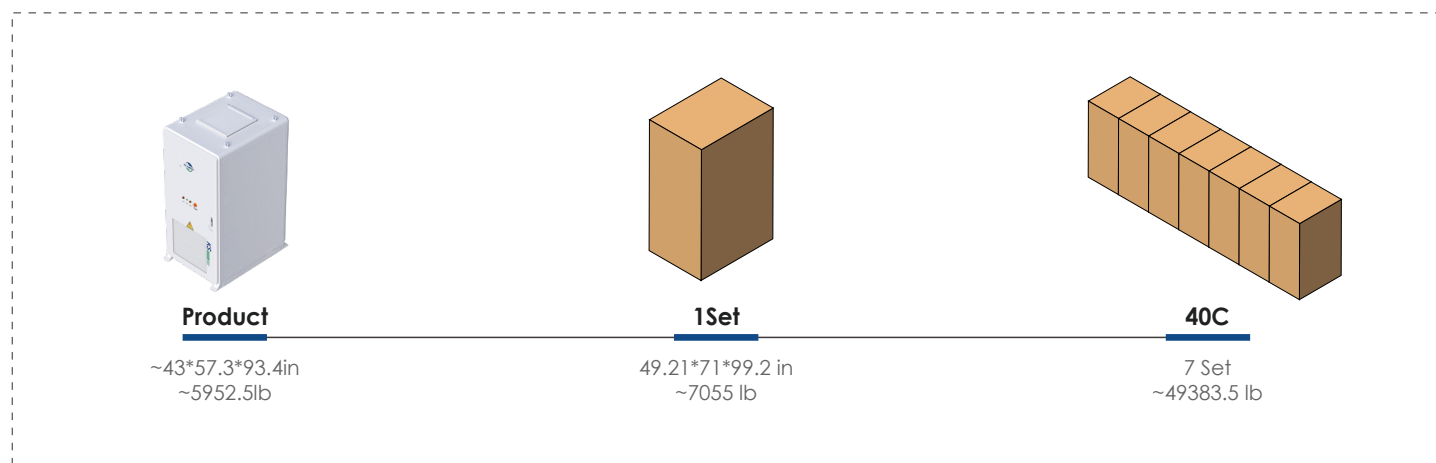
● Max. Parallel/Single System Layout



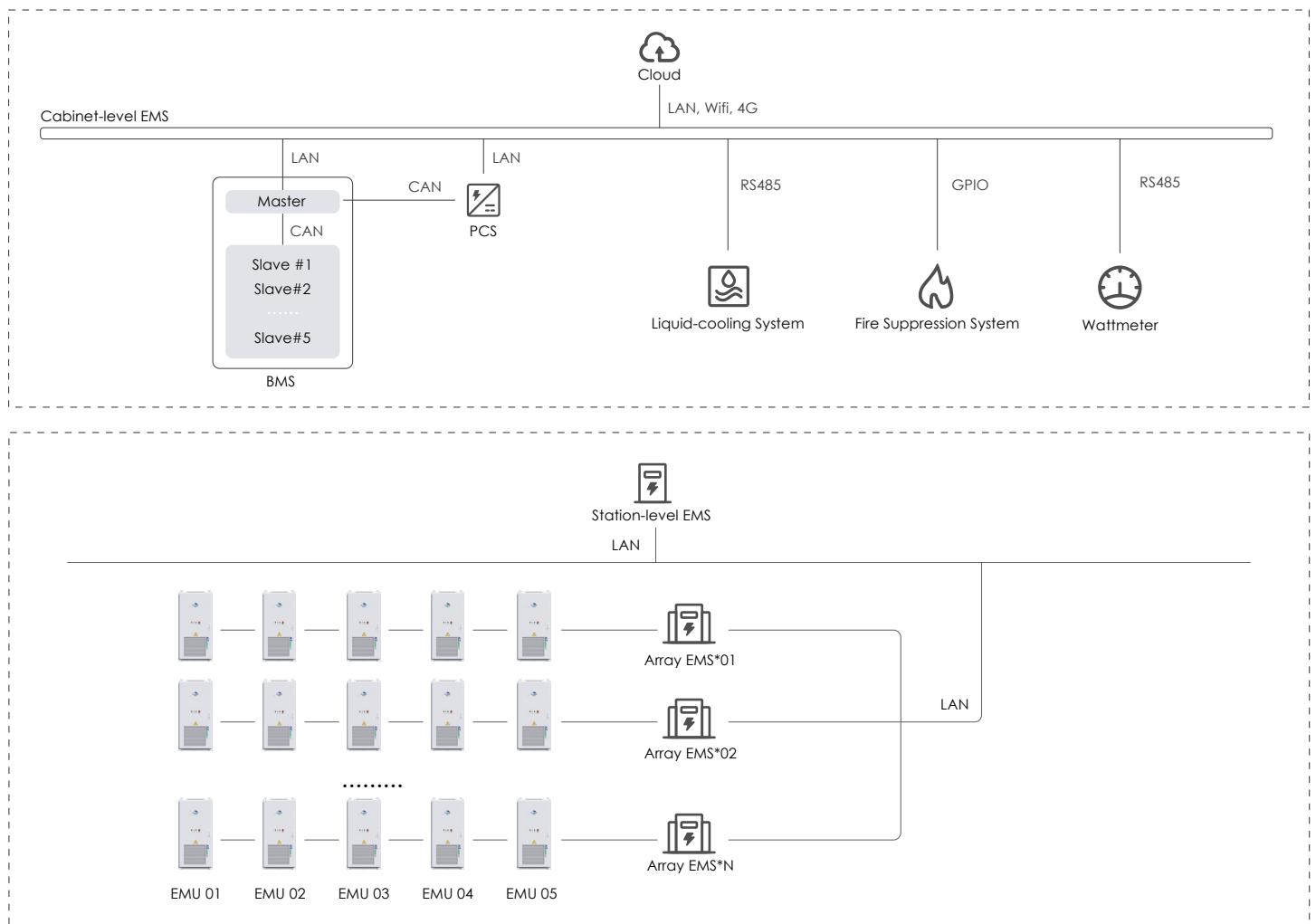
● Product Topology(For 480V System)



● Packaging & Shipping Details



● 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

On Grid Switching Combiner

KS-2330G



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

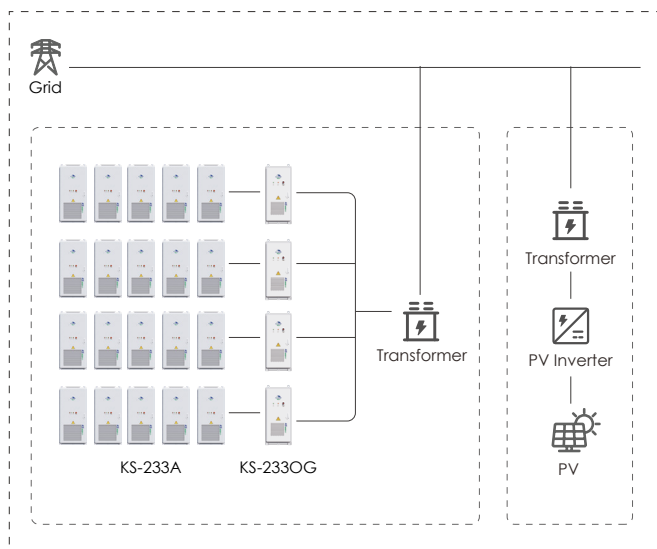
- IP54 design, minimize external environmental impact.
- Grid-tied cabinet without pcs.



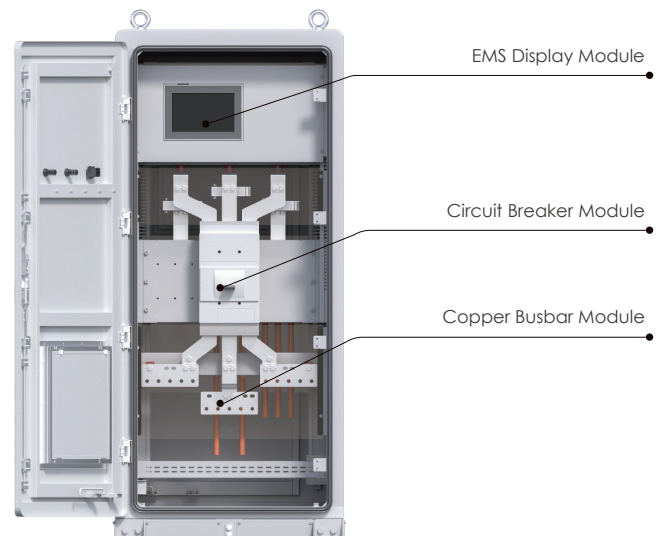
SMART ENERGY MANAGEMENT

- 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
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

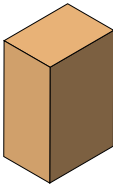
General Parameters	
Battery Model	K-MC625ACC01-US
IP Rating	IP54
Dimensions - W*D*H (in)	~31.5*42.52*70.87
Total Weight (lb)	~983
Operating Temperature(°C/°F)	-20~55/-4~131
Storage Temperature(°C/°F)	-20~35/-4~95
Relative Humidity (RH)	0~95%
Altitude	≤2000m / 6561ft
Noise Level @1m	<65 dB(A)
Communication Interface	RS485, CAN, LAN
Specifications Matched for Energy Storage Systems	233kWh ESS, Supports Parallel Connection of Up to 5 Units

● Packaging & Shipping Details



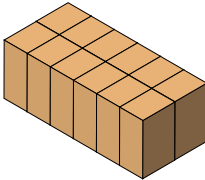
Product

~31.5*42.52*70.87 in
~983 lb



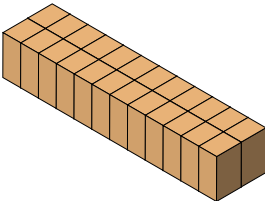
1Set

~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

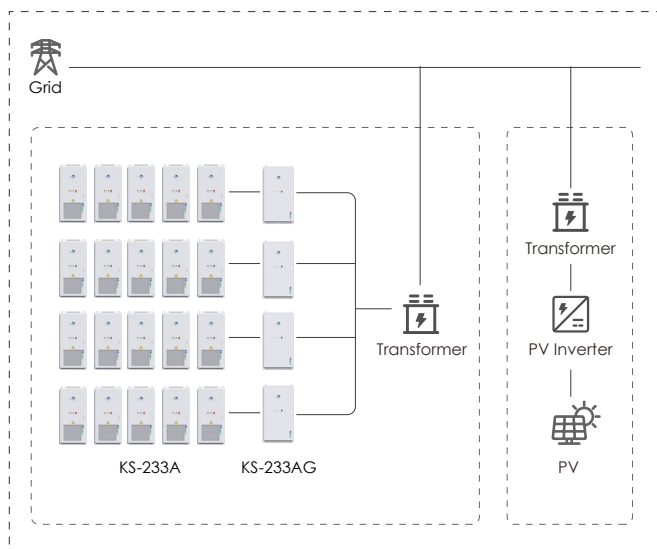
- IP54 design, minimize external environmental impact.
- Full-system safety assurance.



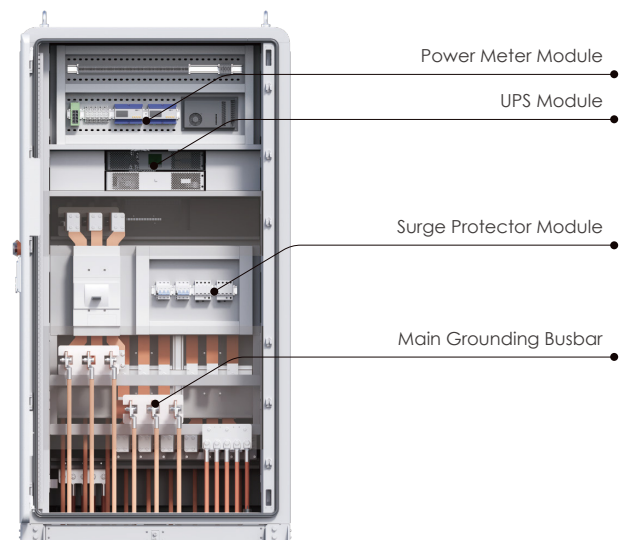
REMOTE CONTROL READY

- 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

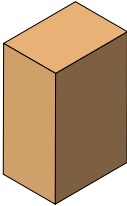
Battery Model	K-MCP625ACC01-US
IP Rating	IP54
Dimensions - W*D*H (in)	47.2*57.3*90.6
Total Weight (lb)	~2636
Operating Temperature (°C/°F)	-20~55/-4~131
Storage Temperature (°C/°F)	-20~35/-4~95
Relative Humidity (RH)	0~95%
Altitude	≤2000m/6561ft
Noise Level @1m	<65 dB(A)
Communication Interface	RS485, CAN, LAN
Specifications Matched for Energy Storage Systems	233kWh ESS, Supports Parallel Connection of Up to 5 Units

● Packaging & Shipping Details



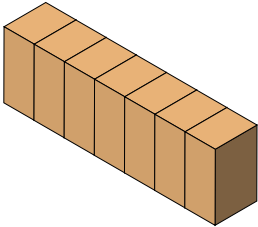
Product

~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

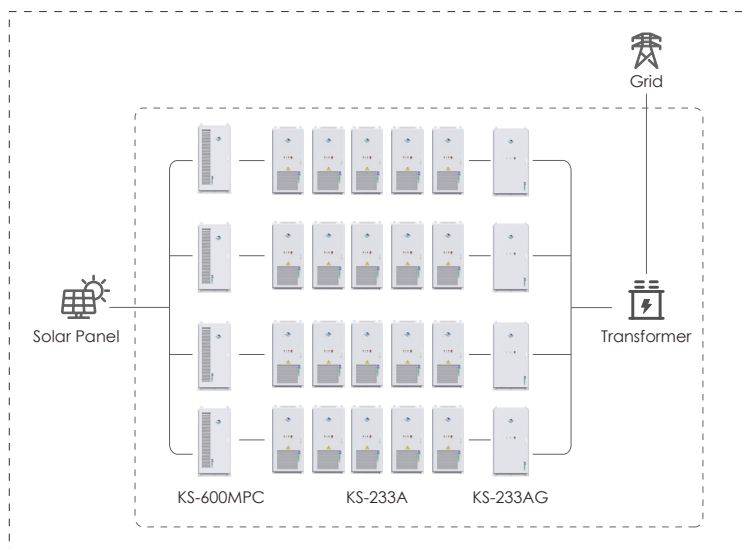
- Seamless PCS & EMS integration.
- Optimizes energy flow and output.



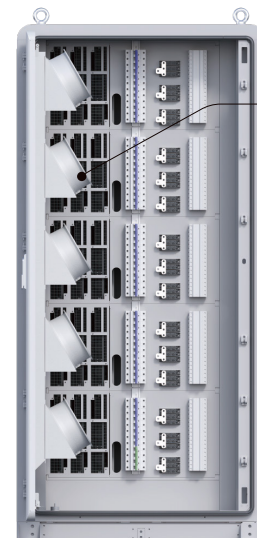
ENHANCED SYSTEM SAFETY

- 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

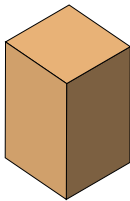
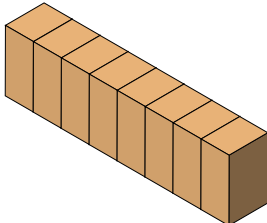
DC Output

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-KS600PVC01-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



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