

YOUR GREEN ENERGY MANUFACTURER



Commercial & Industrial (for EU)

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



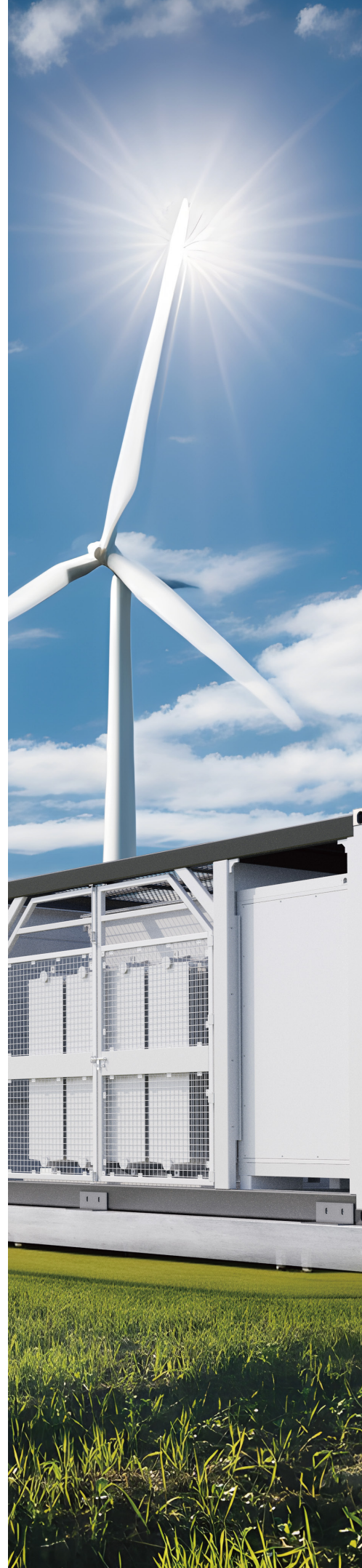
Residential Solution



C&I Solution



UPS Solution



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



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60kWh Air-Cooling Battery

KS-60A



HIGH PERFORMANCE

- >8000 Life Cycles.
- Black start, off-grid ops.



SAFE AND RELIABLE

- Full Power temperature control.
- IP55 design, minimize external environmental impact.



FLEXIBLE APPLICATION

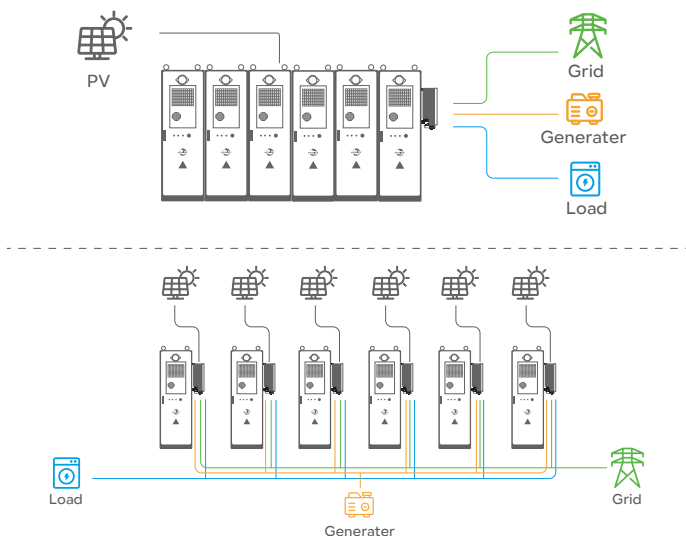
- Ideal for frequent, intensive energy cycling apps.



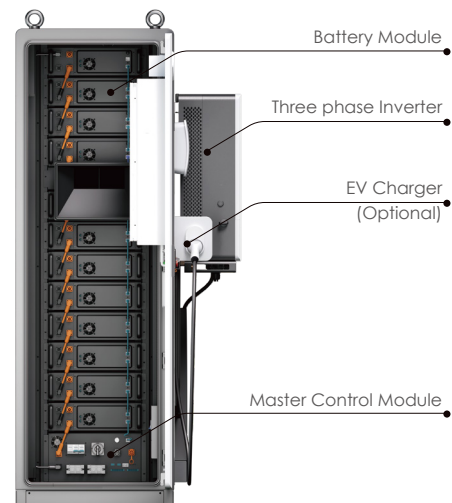
USER FRIENDLY SETUP

- Could platform / APP remote monitor.

System Layout



System Demonstration



● Product Specifications

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
Discharge Current(A)	100
Charge Current(A)	95

General Parameters

Battery Model	K-KS061050A0-EU
Dimension(W*D*H)	750*950*2280mm / 29.5*37.4*89.7in
Weight Approximate	1050kg / 2314.8lb
Working Temperature(°C)	-20 ~ 55
Communication Interface	CAN, RS485, Wi-Fi, LTE
Humidity(RH)	5%~85%
Altitude(m)	≤2000
IP Rating	IP55
Storage Temperature(°C)	-20 ~ 35
Recommend Depth of Discharge	90%
Cycle Life	>8000 cycles
Warranty	3 Years Free, Paid From The 4th To The 15th Year
Certification	UL1973, UL9540A, UN38.3, IEC62619 UL 1741-2021 (incl UL1741SB), CSA C22.2, No 107.1-16 IEEE 1547-2018 & 1547α-2020 & 1547.1-2020 (SRD V2.0), UL1699B

114~215kWh Air-Cooling Battery

KS-215B



HIGH PERFORMANCE

- >8000 cycles life.
- Lifespan surpassing 15 years.



SAFE AND RELIABLE

- System-level fire protection , active early warning system.
- IP55 design, available for indoor / outdoor.



FLEXIBLE APPLICATION

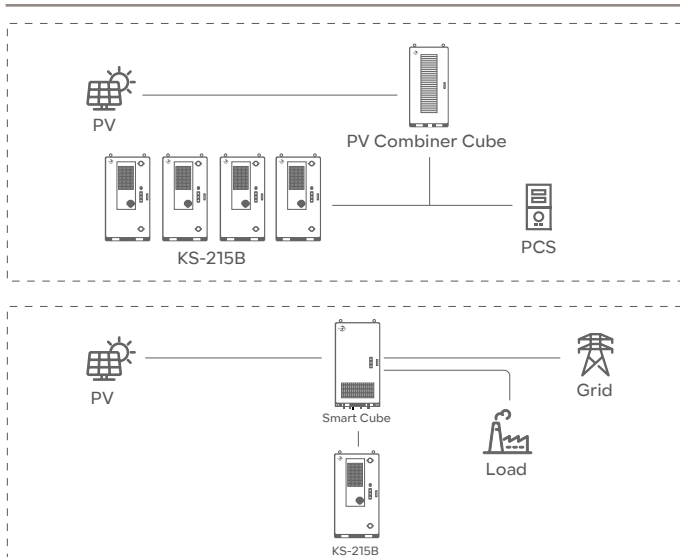
- Efficient BMS Technology.



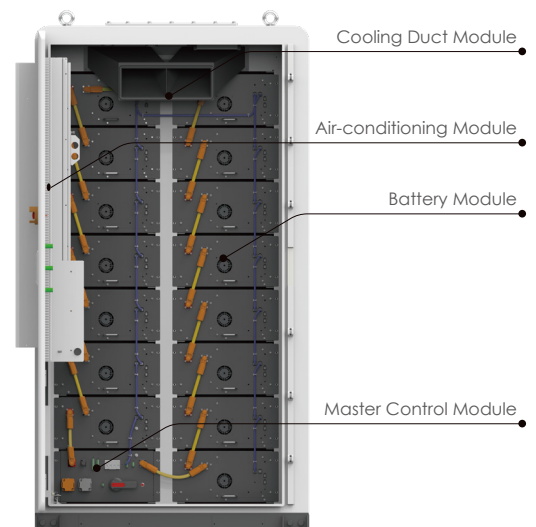
EASY INSTALLATION

- Modular design for ease of expansion.

● System Layout



● System Demonstration



● Product Specifications

Battery Energy Storage	114kWh	129kWh	143kWh	157kWh	172kWh	186kWh	200kWh	215kWh
Single Cell Type	LFP 3.2V / 280AH							
Module Combination	1P16S							
System Combination(Modules)	8	9	10	11	12	13	14	15
Capacity(kWh)	114.69	129.02	143.36	157.70	172.03	186.37	200.70	215.04
Nominal Voltage(Vdc)	409.6	460.8	512	563.2	614.4	665.6	716.8	768
Voltage Range(Vdc)	345.6 ~ 460.8	388.8 ~ 518.4	432 ~ 576	475.2 ~ 633.6	518.4 ~ 691.2	561.6 ~ 748.8	604.8 ~ 806.4	648 ~ 864
Charge/Discharge Current	0.5C							
Discharge Depth	100% DoD							
Service Life	>8000 cycles@80% DoD							
Thermal Management Mode	Air-cooling Technology							
Thermal Runaway Management	Aerosol Extinguishing or PFH							

System Characteristic

Communication Interface	CAN							
Warranty	3 years free, paid from the 4th to the 15th year							
Certifications(Cell)	UN38.3, UL1973, IEC62619, UL9540A, GB/T 36276							
Certifications(System)	IEC62477, IEC62619, IEC61000-6-2/4, UN3480							

General Parameters

Battery Model	K-KS215ACB01							
Dimensions(W*D*H)	1250*1200*2350mm / 49.2*47.2*92.5in							
Total Weight	1394kg 3073lb	1502kg 3311lb	1610kg 3549lb	1718kg 3787lb	1826kg 4025lb	1934kg 4263lb	2042kg 4462lb	2150kg 4740lb
Operation Altitude	2000m / 6561ft							
Noise Level @1m	<75 dB(A)							
IP Rating	IP55							
Operating Temperature(°C)	-30 ~ 55							
Operating Humidity(RH)	0 ~ 95%							
Storage Conditions	-20°C ~ 30°C, Up to 95% RH,non-condensing, State of Energy (SoE): 50% initial							

Intelligent EMS Cabinet (for KS-215B)

KS-215E



HIGH PERFORMANCE

- >8000 cycles life.
- Combines PCS, DCDC, and STS modules.



SAFE AND RELIABLE

- Enhances system stability and efficiency.
- Reliable energy storage, conversion, smart scheduling.



FLEXIBLE APPLICATION

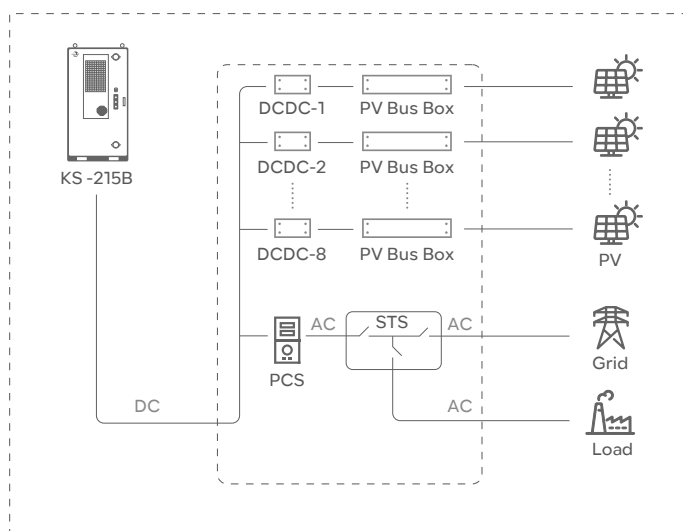
- Efficient BMS Technology.



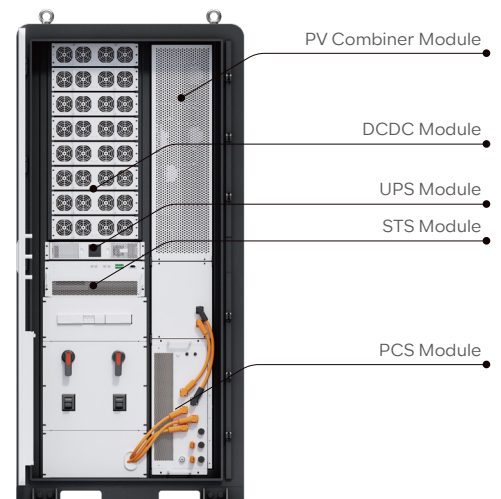
USER FRIENDLY SETUP

- Real-time monitoring and optimization of energy flow.

System Layout



System Demonstration



● Product Specifications

PV Input

Rated Power(kW)	240
Input Voltage(Vdc)	300 ~ 825
The Max. Static Voltage Borne under No Operation (Vdc)	900
Rated Voltage(Vdc)	700
Standby Power Consumption	<14W*8@700 with normal standby mode / <4W*8@700Vdc with Super Standby Mode
Max. Input Current(Vdc)	50*8
Number of MPPT	8
No. of PV Strings per MPP Trackers	4

AC Output

Rated Grid Voltage(Vac)	400V/3N/DE
Max. Continuous Input Current(Adc)	217
Rated Frequency(Hz)	5 / 60
Rated Power(kW)	125
Power Factor	>0.99
Adjustable Power Factor	-1 ~ 1
THDi	<3%(At Rated Power)
Overload Capacity	120%
Integrated STS	Yes(≤10mS)

System Characteristic

Warranty	3 years free, paid from the 4th to the 15th year
Certification(PCS)	EN50549
Certification(MPPT)	EN61851

General Parameters

Battery Model	K-KS107EMCA0-EU
Dimensions (W*D*H)	1100*1200*2350mm / 43.3*47.2*92.5in
Total Weight	800kg / 1763.7lb
Cooling	Intelligent Air-cooling
Operation Altitude	2000m / 6561ft
Noise Level@1m	<75 dB(A)
IP Rating	IP54
Operating Temperature(°C)	-35 ~ 60
Operating Humidity(RH)	0 ~ 95%

PV Combiner Cabinet (for KS-215B)

KS-215C



HIGH PERFORMANCE

- Specially crafted for the "KS-215B".
- MAX. output power 360Kw(12 modules).



SAFE AND RELIABLE

- IP55 design, minimize external environmental impact.



FLEXIBLE APPLICATION

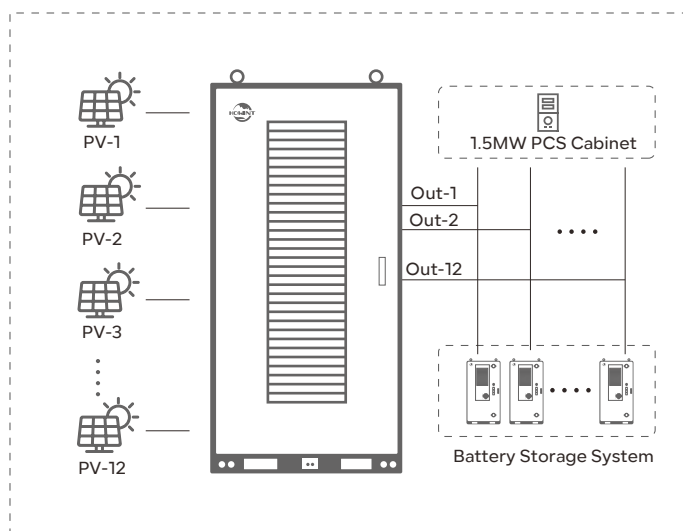
- Energy collection efficiency by seamlessly integrating multiple photovoltaic arrays.



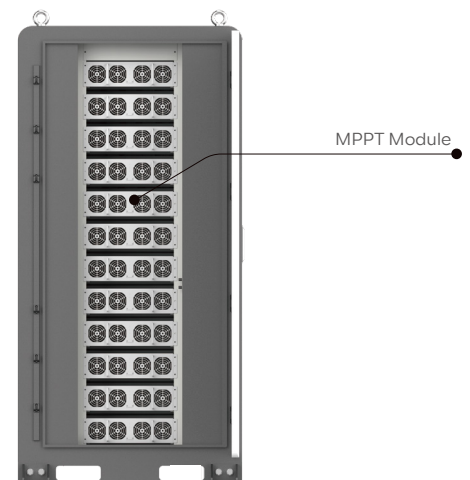
EASY INSTALLATION

- Modular design for ease of expansion.

● System Layout



● System Demonstration



● Product Specifications

PV Input

Input Voltage(Vdc)	300 ~ 825
The Max. Static Voltage Borneunder No Operation(Vdc)	900
Rated Voltage(Vdc)	700
MPPT Operating Voltage Range(Vdc)	300 ~ 740
MPPT Full Load Voltage Range(Vdc)	650 ~ 740
MPPT Starting Voltage(V)	375
MPPT Efficiency	>99.5%(MPP≥5000W)
Max. Input Current(Adc)	50*12
Number of MPPT	12
No. of PV Strings per MPP Trackers	4

DC Output

Individual Module Output Power(kW)	30
Max. Number of Modules	12
Total Output Power(kW)	360
Output Voltage Range(Vdc)	150 ~ 1000
Output Current Range(Adc)	0~100@Per MPPT
Voltage Regulation Accuracy	<±0.5%(150 ~ 1000V, 0 ~ 20MHz)
Precision of Steady Current	≤±1%(Output load 20% ~ 100%)
Load Regulation	≤±0.5%
Source Adjustment Rate	≤±0.1%(The Test Range is 650V ~ 825V)
Start the Overshoot	≤±3%
Voltage Ripple Factor	≤1%(150 ~ 1000V, 0 ~ 20MHz)

System Characteristic

Communication Interface	CAN bus, LAN
Warranty	3 Years Free, Paid From The 4th to The 15th Year
EMC / EMI	EN61851-21-2, class B
Safety	UL2202, EN61851-1, EN61851-23

General Parameters

Battery Model	K-KS360PCCD0-EU
Type of Cooling	Forced Air-cooling
Dimensions(W*D*H)	1120*1220*2170mm / 44*48*85.4in
Total Weight	1100kg / 2425lb
Altitude(m)	<2000
Noise Level@1m	<75 dB(A)
IP Rating	IP54
Operating Temperature(°C)	-40 ~ 75(above 55°C needs to be reduced)
Storage Temperature(°C)	-40 ~ 70
Relative Humidity	≤95%RH, Non-condensing

233kWh Liquid-Cooling Battery

KS-233A



HIGH PERFORMANCE

- High-efficiency liquid cooling.



SAFE AND RELIABLE

- battery monitoring, fire prevention, a top venting design.
- AI management.



FLEXIBLE APPLICATION

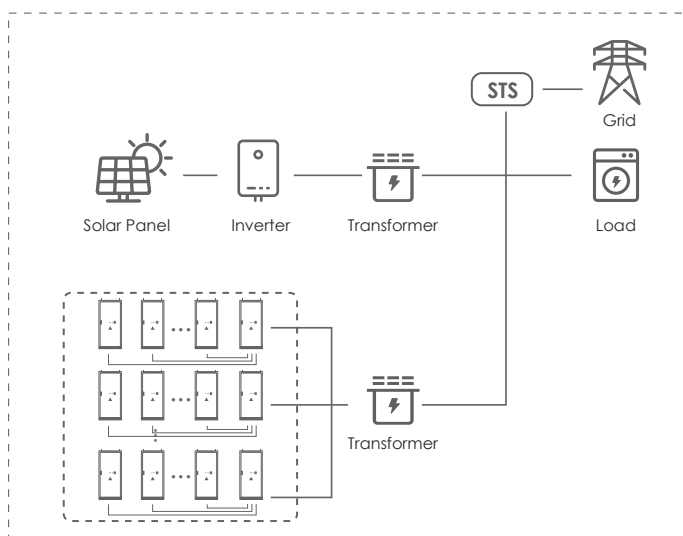
- Efficient BMS Technology.



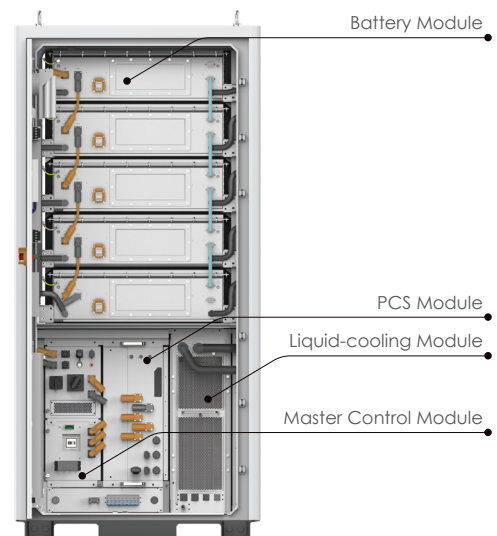
EASY INSTALLATION

- Modular design for ease of expansion.

System Layout



System Demonstration



● Product Specifications

Battery Energy Storage

Single Cell Type	LFP 3.2V / 280AH
Module Combination	1P52S
System Combination	5 modules in series
Capacity(kWh)	233
Nominal Voltage(V)	832
Operation Voltage Range(Vdc)	702 ~ 949
Discharge Depth	90% DoD
Thermal Management Mode	Liquid Cooling
Thermal runaway management	Aerosol Extinguishing

AC Output

Rated AC output power(kW)	125
Max. AC output power(kVA)	150
Rated output voltage(Vac)	400
Output voltage range(Vac)	-15% ~ 10%(settable)
Rated grid frequency(Hz)	50 / 60(settable)
Max. output current(A)	182
Adjustable power factor	>0.99
THDi	<3%

System Characteristic

PCS Cooling	Forced Air Cooling
PCS Topology	non-isolation
AC/DC start function	Integration
Switch from Grid-connected to Off-grid	Integration
Communication Interface	CAN, RS485, WiFi, LTE
Warranty	3 Years Free, Paid From The 4th to The 15th Year
Certifications	IEC 62619, EN 61000-6-1/2/3/4 EN 62019-1/2, UL1973, UL9540A, UL9540, UN38.3

General Parameters

Battery Model	K-KS233125A0-US
Dimensions(W*D*H)	1100*1450*2350mm / 43*57*92.5in
Total Weight	2950kg / 6503lb
Operation Altitude	2000m / 6561ft
Noise Level@1m	<75 dB(A)
IP Rating	IP54
Operating Temperature(°C)	-20 to 55
Operating Humidity(RH)	0 to 95%
Storage Conditions	-20°C to 30°C Up to 95% RH, non-condensing State of Energy (SoE): 50% initial

AC Combiner Cabinet (for KS-233A)

KS-233C



HIGH PERFORMANCE

- Enhancing the functionality and reliability of the KS-233A .



SAFE AND RELIABLE

- Seamless and efficient energy management experience.
- IP54 design, available for indoor / outdoor.



FLEXIBLE APPLICATION

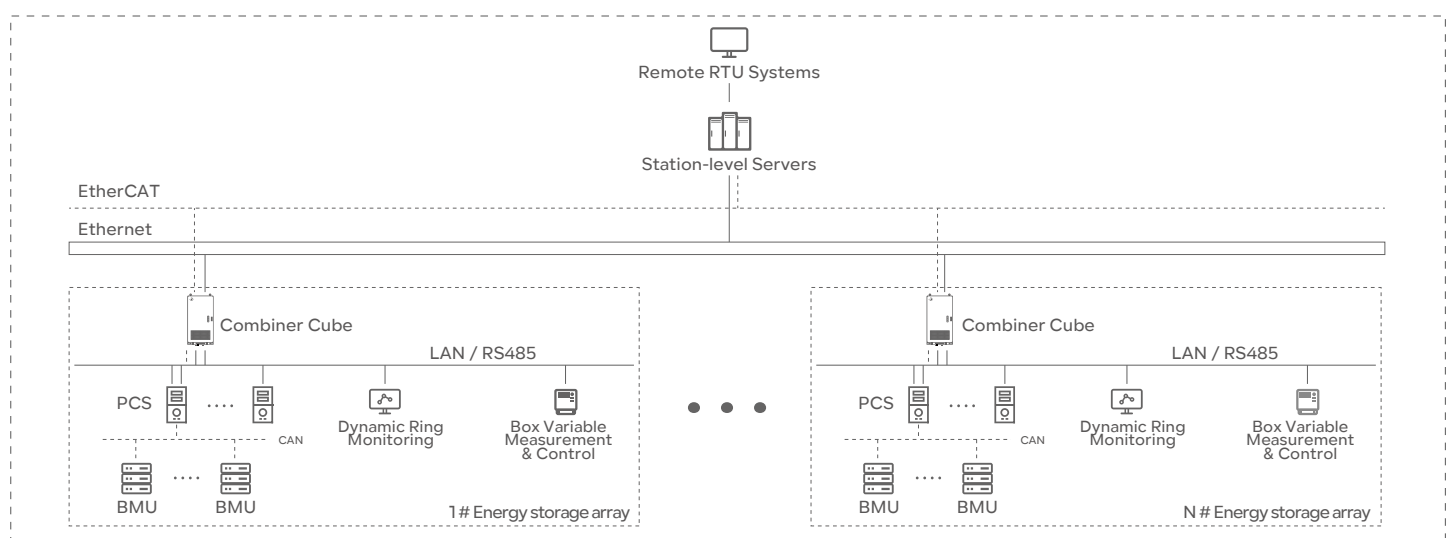
- Max. Rated Power 3200kW.



USER FRIENDLY SETUP

- Noise Level<65 dB(A).

System Layout



● Product Specifications

Model	Common(use)	EU
Input Voltage(Vac)	690	400
Access Channel	16	16
Output Channel	1	1
Max. Rated Power(kW)	3200	2000
Rated Current(A)	2678	2887
Measuring Accuracy	Class 0.5(Bidirectional Meter)	
Overload Protection	Yes	
UPS	Optional	

System Characteristic

Communication Interface	CAN, LAN, RS485
Warranty	3 years free, paid from the 4th to the 15th year

General Parameters

Battery Model	K-KS2000PCCD0-EU
Dimensions(W*D*H)	1200*1450*2350mm / 47.2*57*92.5in
Total Weight	1200kg / 2645.5lb
Altitude(m)	<2000
Noise Level@1m	<65 dB(A)
IP Rating	IP54
Operating Temperature(°C)	-35 ~ 55
Storage Temperature	-40 ~ 70
Relative Humidity(RH)	≤95%, non-condensing

Liquid-cooling Distributed Container System

P-Block



HIGH PERFORMANCE

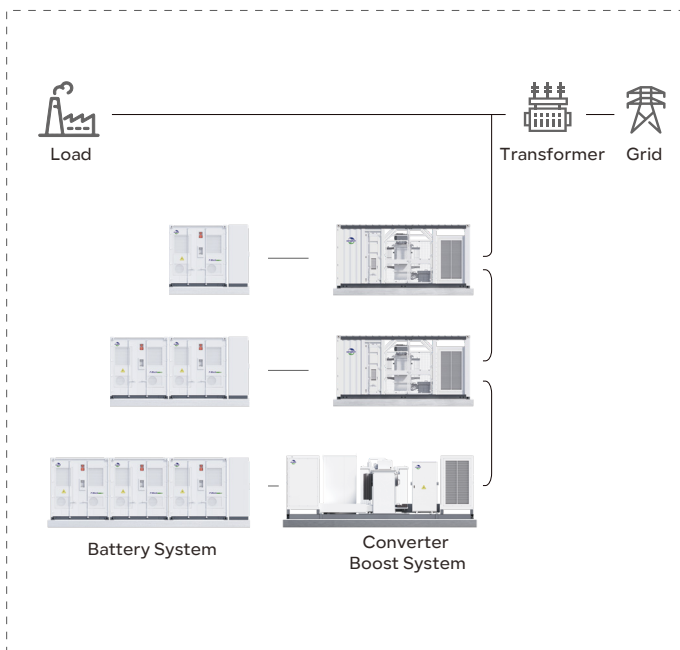
- New Generation of Distributed.



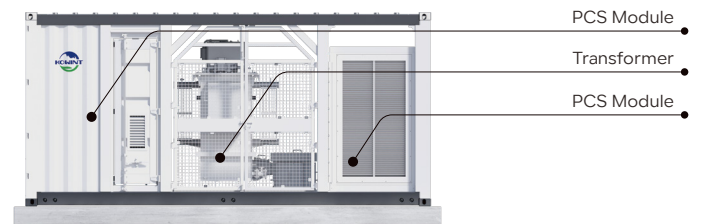
SAFE AND RELIABLE

- IP54 design, minimize external environmental impact.

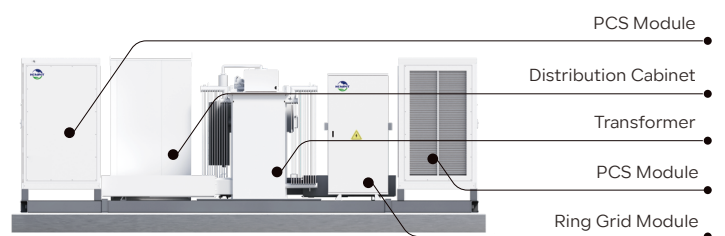
● System Layout



● System Demonstration For EU



For 10ft/20ft



For 30ft

● Product Specifications

Battery Energy Storage	1672kWh	3344kWh	5016kWh
Cell Type	LFP 3.2V / 314AH		
Module Configuration	1P104S		
String Configuration	1P416S		
Number of Battery System	1	2	3
Number of Strings	4	8	12
Capacity(kWh)	1672	3344	5016
Nominal Voltage(V)	1331.2		
Operation Voltage Range(Vdc)	1218.88 ~ 1476.8		
Discharge Depth	90% DoD		
Thermal Management Mode	Liquid-cooling		
Thermal Control Management	Aerosol Extinguishing or PFH		

AC Output

Rated AC Output Power(kVA)	840	1670	2500
Max. AC Output Power(kVA)	860	1725	2580
Output Voltage Range(kV)	11 ~ 33		
Rated Grid Frequency(HZ)	50 / 60		
AC PF	0.99 / -1~1		
THDi	≤3%		

System Characteristic

Communication Interface	CAN, RS485, Ethernet		
Warranty	3 Years Free , Paid From The 4th to The 15th Year		
Certifications	IEC62619, IEC62477, EN61000-6-2 / 4, UL9540A, UL9540, UN3536		

General Parameters

Battery Model	K-PB1670LCBA0-EU	K-PB3440LCBA0-EU	K-PB5012LCBA0-EU
Battery System Dimensions(W*D*H)	2991*2438*2591mm 117.8*96*102in	2991*4952*2591mm 117.8*195*114in	2991*7466*2591mm 117.8*294*102in
Battery System Total Weight	~15000kg / 33069lb	~30000kg / 66139lb	~45000kg / 99208lb
Converter Boost System Dimensions(W*D*H)	6058*2438*2896mm 238.5*96*114in		
Converter Boost System Total Weight	<25000kg / 55116lb		
Operation Altitude	3000m / 10000feet(>3000m / 10000feet derating)		
Nosie Level@1m	<75dB		
IP Rating	IP54		
Operation Temperature(°C)	-30 to 55(De-rating over 45°C)		
Operation Humidity(RH)	≤95%, No condensation		
Storage Conditons	-20°C to 30°C, Up to 95% RH, Non-condensing, State of Energy(SoE): 50% initial		

Selection

Intelligent PCS



30kW



60kW



125kW

Voltage Range(Vdc)	150~750	400~800	580~1000
AC Output(Vac)	3W3P+PE, 480 (±15%)	3 / N / PE, 230 V / 400	400
AC frequency(Hz)	60 (±2.5)	50/60	50/60

Master Control



R-MC150-EC04



R-MC150-EC01



R-MC250-EU01

Rated Voltage(Vdc)	750	750	1000
Voltage Range(Vdc)	200~750	200~750	400-1500
Rated Current(A)	100	150	200
Weight	28kg / 61.7 lb	32kg / 70.5lb	38kg / 83.7lb
W*D*H(prediction)	494*510*132mm / 19.4*20*5.2in	440*620*230mm / 17.3*24.4*9in	251*900*325mm / 9.8*35.4*12.8in

Flexible Battery Module



R-EMO51100-ECH01



R-EMO96100-ECH03



R-EM25280-ECH01



R-EM166280-ECH01-RP



R-EM166314-ECH01-RP

Rated Energy(kWh)	5.12	9.6	7.17	46.59	52.25
Rated Voltage(V)	51.2	96	25.6	166.4	166.4
Rated Capacity(Ah)	100	100	280	280	314
Max. Charging Current(A)	100	100	140	140	157
Peak Charging Current(A)	200(30S)	200(30S)	280(30S)	280(60S)	314(60S)
Max. Discharge Current(A)	100	100	140	140	157
Peak Discharge Current(A)	200(30S)	200(30S)	280(30S)	280(60S)	314(60S)
W*D*H	482.6*627.5*132mm 19*24.7*5.2in	494*680*132mm 19.4*26.7*5.2in	250.5*763.5*228mm 9.8*30*8.9in	812*1133*238.5mm 32*44.6*9.4in	779*1135*250mm 30.6*44.7*9.8in
Weight	43kg / 94.7lb	73kg / 161lb	60kg / 132lb	330kg / 727.5lb	348kg / 767lb

Battery Cell



RF100



RF205



RF280



RF314

Rated Capacity(Ah)	100	205	280	314
Rated Voltage(V)	3.2	3.2	3.2	3.2
Max. Charge Rate	1C	1C	1C	1C
Internal Resistance	≤ 0.8mΩ	≤ 0.5mΩ	< 0.3mΩ	< 0.3mΩ
W*D*H(prediction)	174*27.2*207mm / 6.8*1*8.1in	174*53.7*207mm / 6.8*1.5*8.1in	174*71*207mm / 6.8*2.8*8.1in	174*71*174mm / 6.8*2.8*8.1in

Memo No. _____

Date / /



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