

Commercial & Industrial

Energy Storage Solution

FOR US MARKET



Renon Power Technology Inc.

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Renon Power

We Care The Sustainability

With our own R&D team and automatic production factory, we are dedicated to delivering innovative, reliable, and affordable energy storage solutions to global customers.

At Renon, we believe that sustainable energy is the future. We are passionate about reducing carbon emissions and preserving our planet for future generations. That's why we invest heavily in research and development, leveraging the latest technologies to design and manufacture energy storage systems that are efficient, scalable, and adaptable.

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, Renon has the right solution for you.

Our commitment to quality and customer satisfaction is unwavering. We work closely with our clients to understand their unique needs and provide customized solutions that meet or exceed their expectations. We also provide comprehensive technical support, maintenance, and warranty services to ensure that our customers get the most out of their investment.

[JOIN US ON OUR MISSION TO MAKE GREEN POWER WITHIN REACH.](#)

**PROVIDE INNOVATIVE,
RELIABLE, AND
AFFORDABLE ENERGY
STORAGE SOLUTIONS
TO CUSTOMERS
WORLDWIDE.**



Content

Meeting the highest standards of quality and safety in the global market.

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Industry Application

Renon's energy storage products are extensively applied across residential, commercial, and industrial sectors. With exceptional performance, cutting-edge technology, and efficient energy management, they provide reliable, innovative, and eco-friendly energy solutions, helping global users achieve their sustainability goals.



Residential
Apartment



Residential
Detached House



Agriculture & Livestock
Farm & Ranch

Commercial
Supermarket & Kiosk



Commercial
Charging Station



Commercial
Community



Industrial
Manufactory



Industrial
Supercomputing



Industrial
Electricity Generating Station



As a company that values renewable energy, we are passionate about developing solutions that contribute to a greener, more sustainable future. Our products are designed to reduce carbon emissions and promote environmental conservation.

Products Display

Our integrated C&I solutions offer autonomous energy storage and management for commerce and industry.

Battery Storage System



P03
ECube 60AP



P05
MPack 215B



P07
PV Combiner Cube



P09
Smart Cube

Distribution Cabinet System



P11
MPack 233A



P13
AC Combiner Cube

Distribution Container System



P15
Smart Matrix

Battery-Buffered Charging System



P17
EStand M260



P19
EStand 240/480



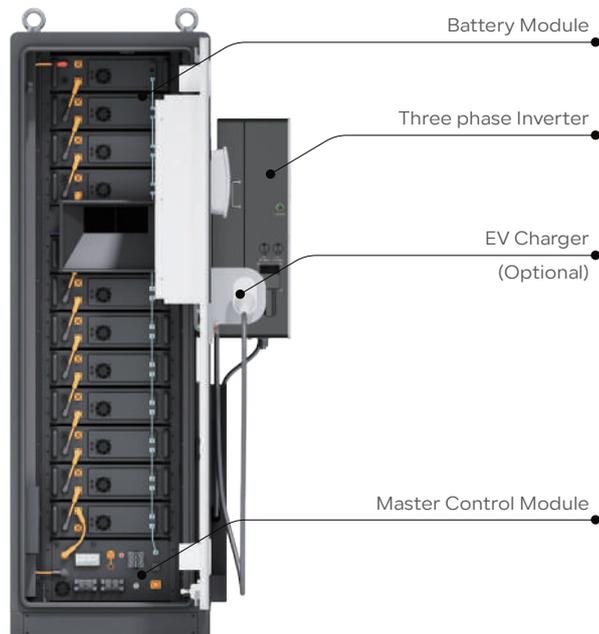
ECube 60AP

60kWh Air-Cooling Battery

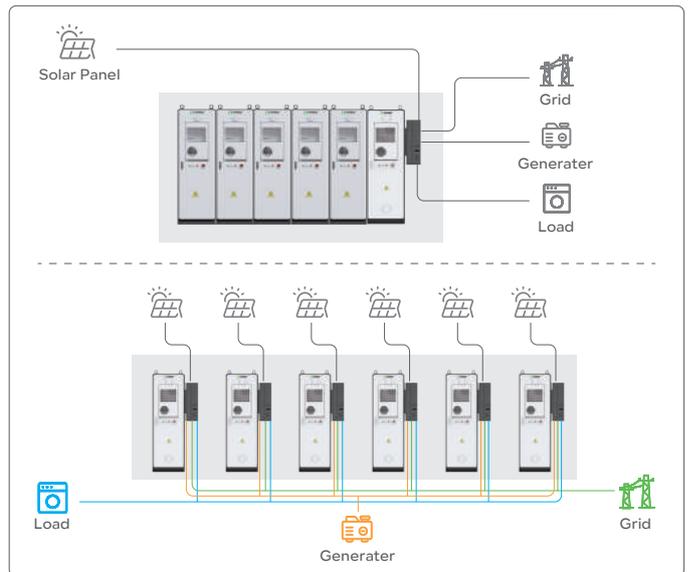
The ultimate commercial and industrial energy storage solution with optimized temperature control, high-rate energy cycling, comprehensive fire and gas safety detection, and advanced integrated power management technologies.



System Demonstration



System Layout



Application Scenario



Battery Energy Storage	Optional 1	Optional 2
Cell Chemistry	LiFePO4	LiFePO4
Module Energy (kWh)	5.12	5.12
Module Nominal Voltage (V)	51.2	51.2
Module Capacity (Ah)	100	100
Battery Module Combination	6S2P	12S1P
System Nominal Voltage (V)	307.2	614.4
System Operating Voltage (V)	281.25~340.8	562.5~681.6
System Energy (kWh)	61.44	61.44
Charge Current (A)	95	95
Discharge Current (A)	100	100

PV Input	Optional 1	Optional 2
Max. Allowed PV Power (STC)(kW)	39	78
MPPT Voltage Range(V)	150~500V	150~850
Startup Voltage(V)	180	180
Max. Input Voltage 1(V)	550	1000
Max. operating input current per MPPT(A)	36	36
Max. short circuit current per MPPT(A)	55	55
No. of MPP Trackers	4	4
No. of PV Strings per MPPT	2	2
Max. AC Coupled Input(kW)	30	60

Charging System(Optional)

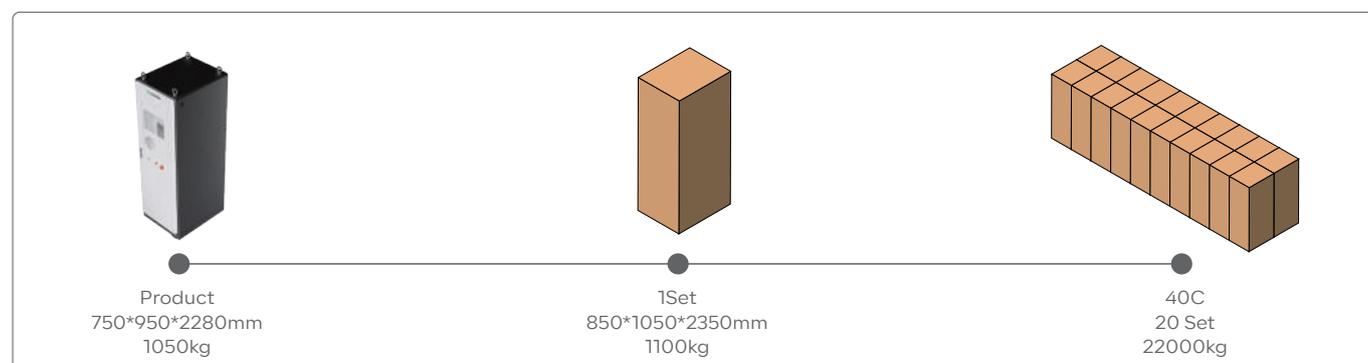
Charging Type	Charging Mode 3 Case c, level 2
Outlet options	AC Type 1 (SAEJ1772)
Input/Output Current rating(A)	32 / 48 / 80
Input/Output Power rating(kW)	7.7 / 11.5 / 19.2@240VAC
Input/output voltage(VAC)	208~240
Input Frequency(Hz)	50/60
Cable Length	16 feet, Optional: 25 feet
Distribution Systems	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 (EPS)	Optional 1	Optional 2
Nominal AC Voltage(3Φ)(V)	120/208	277/480
Grid Frequency(Hz)	50 / 60	50/60
Real Power, max continuous(3Φ)(kW)	30	60
Max. Output Current(A)	83.4	72.3
Peak Apparent Power (10s, off-grid, 3Φ)(kVA)	45	90
Max. Grid Passthrough Current (10min)(A)	200	200
Continuous Grid Passthrough Current(A)	180	180
Power Factor Output Range	±0.8 adjustable	
Backup Transfer Time	5ms (adjustable)	
CEC Efficiency	96.5%	
Max Efficiency	97.5%	
Design (DC to AC)	Transformerless DC	
Stackable	Up to 10 in parallel	

General Parameters

Product Model(Optional 1)	R-EC060030A1-US
Product Model(Optional 2)	R-EC060060A1-US
Dimension (W*D*H)	750*950*2280mm / 29.5*37.4*89.7in
Weight Approximate	1050kg / 2314.8lb
Working Temperature	-20~55°C
Communication Interface	CAN, RS485, Wi-Fi, LTE
Humidity	5%~85%RH
Altitude	≤2000m
IP Rating	IP55
Storage Temperature	-20~35°C
Recommend Depth of Discharge	90%
Cycle Life	>8000 cycles
Warranty	3 years free, paid from the 4th to the 15th year
Certification(Battery)	UL1973U, L9540A UL 1741-2021 (incl UL1741SB) IEEE 1547-2018 & 1547a-2020 & 15471-2020 (SRD V2.0), UL1699B
Certification(Inverter)	UL 1741-2021 (UL1741SB) CSA C22.2 No 1071-16, IEEE 1547-2018 & 1547a-2020 & 15471-2020 (SRD V2.0) UL 1741 CRD-PCS, UL1699B, CEC, SGIP 4

Packaging & Shipping Details



ECube 215B

114~215kWh Air-Cooling Battery

High Security: Utilizes high-safety lithium iron phosphate batteries, with partition safety isolation, built-in module-level and system-level fire protection, and an active safety early warning system to ensure reliable operation.

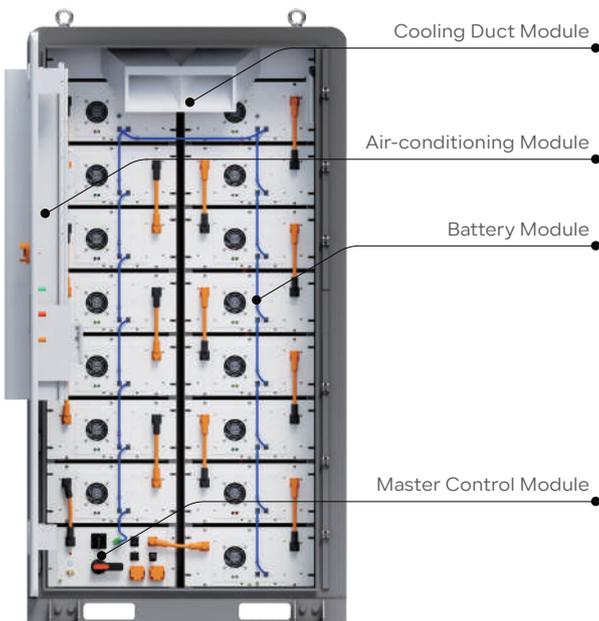
Efficient BMS Technology: Features high-efficiency equalization technology and low power consumption BMS sampling chips, reducing module inconsistencies and eliminating series loss for optimal performance.

Long Life Cycle & Thermal Management: Offers over 8000 cycle times with a lifespan exceeding 15 years, supported by laser welding and a high-efficiency Air-cooling and heating system maintaining cell temperature consistency.

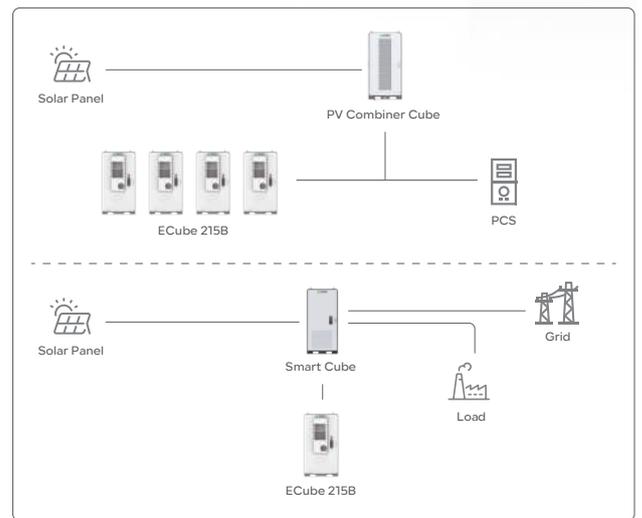
Easy Installation & Maintenance: Standardized design for simplified installation and user deployment, with a fully modular setup for convenient operation and maintenance, both locally and via cloud systems.



System Demonstration



System Layout



Application Scenario



COMMUNITY



OFFICE SPACE



FARM

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							

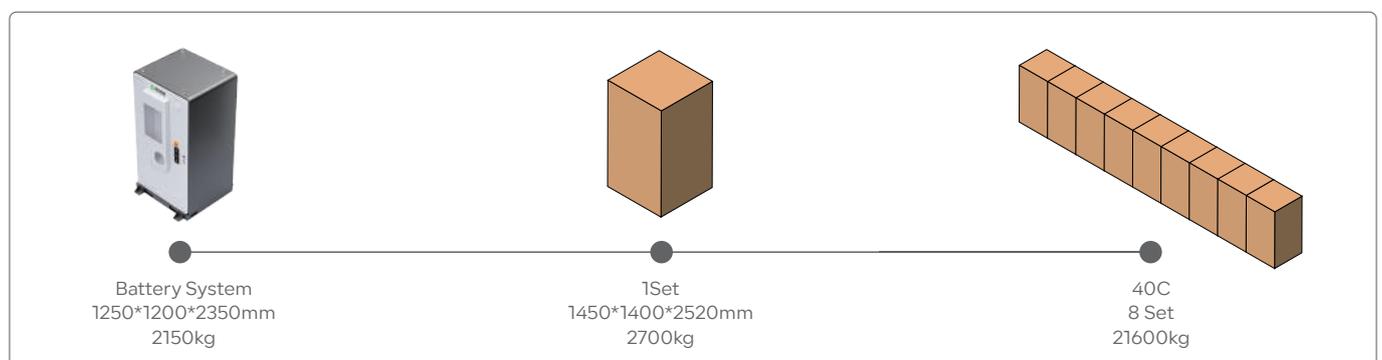
System Characteristic

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

Product Model	R-EC114LCB01	R-EC129LCB01	R-EC143LCB01	R-EC157LCB01	R-EC172LCB01	R-EC186LCB01	R-EC200LCB01	R-EC215LCB01
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	-30°C ~ 55°C							
Operating Humidity (RH)	0 ~ 95%							
Storage Conditions	-20°C ~ 30°C, Up to 95% RH, non-condensing, State of Energy (SoE): 50% initial							

■ Packaging & Shipping Details



PV Combiner Cube

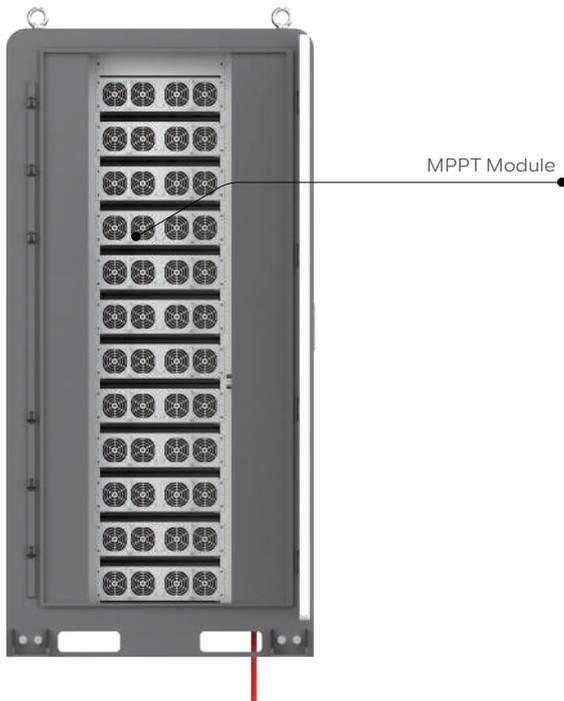
PV Combiner Cabinet (for ECube 215B)

The "PV Combiner Cube" is specifically designed for the Renon Power "ECube 215B" pure battery cabinet product, serving as an essential photovoltaic combiner box. This advanced system enhances energy collection efficiency by integrating multiple photovoltaic arrays seamlessly.

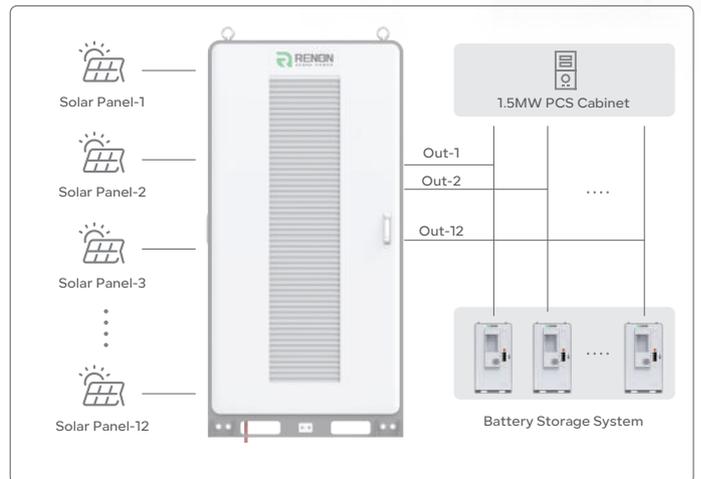
One PV Combiner Cube can support up to 12 ECube 215B.



System Demonstration



System Layout



Application Scenario



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

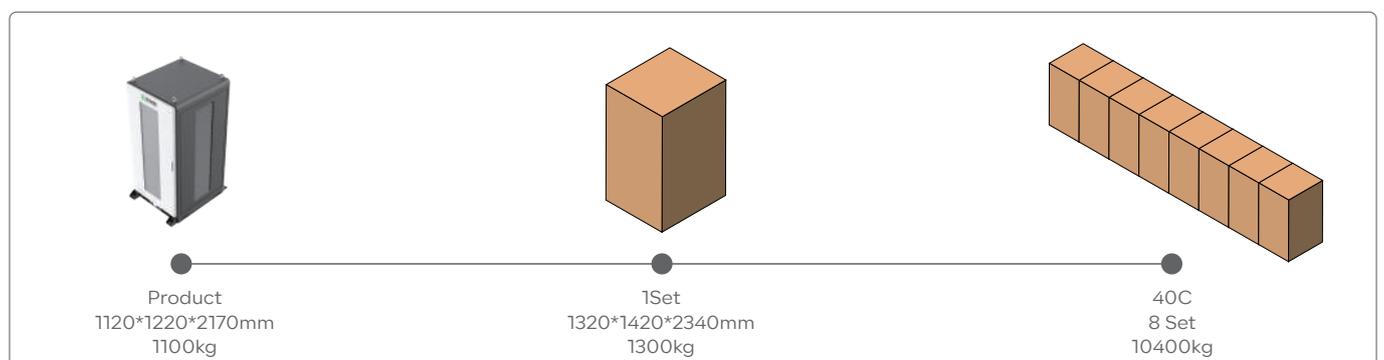
DC Output	
Individual Module Output Power(kW)	30
Max. Number of Modules	12
Total Output Power(kW)	360
Output Voltage Range(Vdc)	150 ~ 1000
Output Current Range(Adc)	0~100@Per MPPT
Voltage Regulation Accuracy	<±0.5%(150~1000V, 0~20MHz)
Precision of Steady Current	≤±1%(Output load 20% ~ 100%)
Load Regulation	≤±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	
Product Model	R-PV360PVC01
Type of Cooling	Forced Air-cooling
Dimensions (W*D*H)	1120*1220*2170mm / 44*48*85.4in
Total Weight	1100kg / 2425lb
Altitude	<2000m
Noise Level @1m	<75 dB(A)
IP Rating	IP54
Operating Temperature	-40°C~75°C (above 55°C needs to be reduced)
Storage Temperature	-40°C~70°C
Relative Humidity	≤95%RH, non-condensing



■ Packaging & Shipping Details



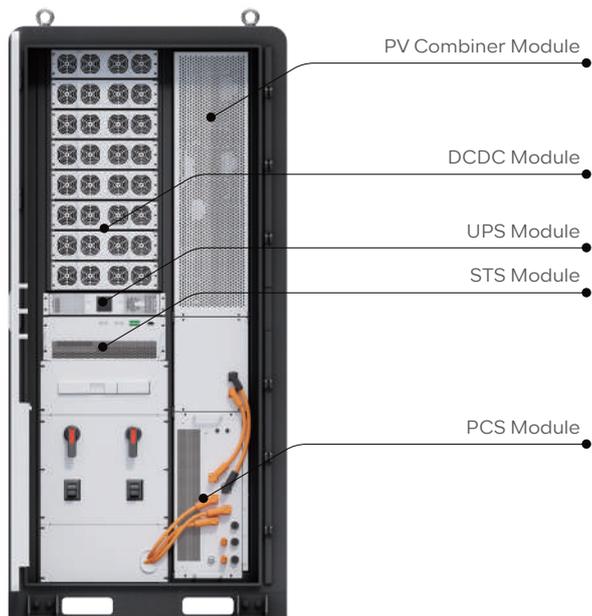
Smart Cube

Intelligent EMS Cabinet (for ECube 215B)

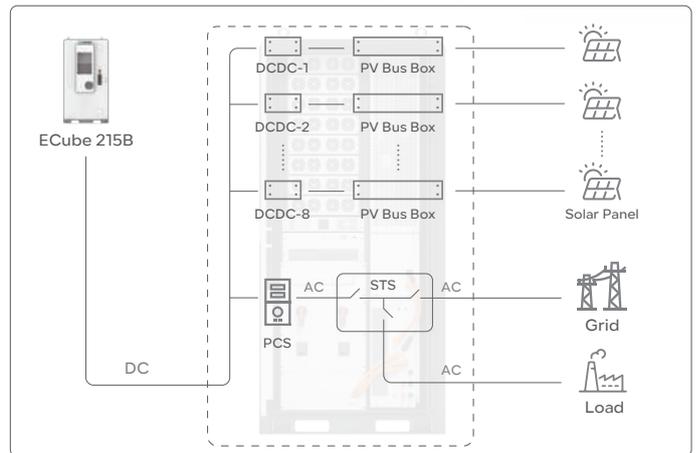
The "Smart Cube" intelligent EMS cabinet is designed for the ECube 215B, integrating PCS, DCDC, and STS modules into a unified energy management system. Utilizing advanced EMS technology, it provides real-time monitoring and optimization of energy flow, enhancing system stability and efficiency. Smart Cube offers reliable energy storage, conversion, and intelligent scheduling, catering to diverse application needs. It is an ideal solution for improving energy efficiency and supporting sustainable development.



System Demonstration



System Layout



Application Scenario



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

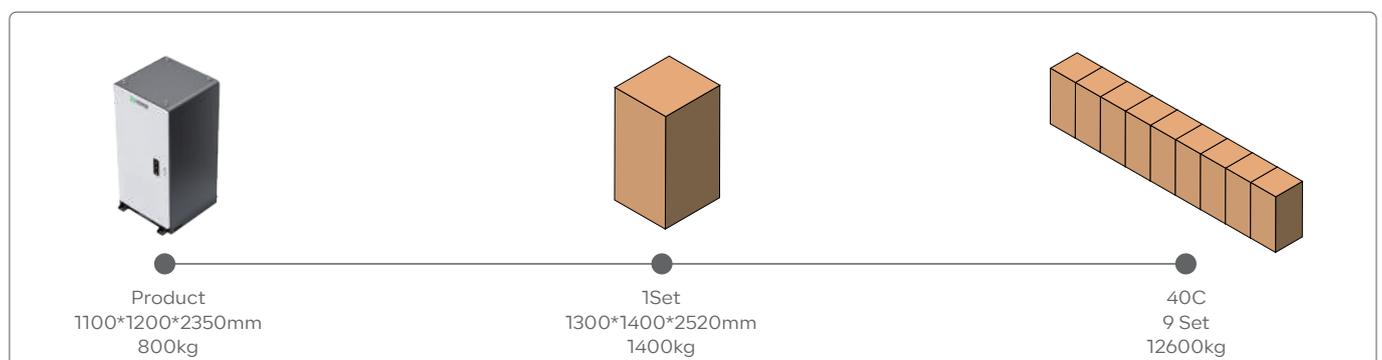
AC Output	
Rated Grid Voltage (Vac)	480 / 3P3W
Max. Continuous Input Current (Aac)	165.4
Rated Frequency (Hz)	60
Rated Power (kW)	107
Power Factor	>0.99(at rated power)
Adjustable Power Factor	-1~1
THDi	<3%(at rated power)
Overload Capacity	110%
Integrated STS	NO

Battery Input	
DC Input (Vdc)	1500
DC Voltage Range (Vdc)	720~1300
Max. DC Current (A)	195
Auto Buffering Function	Yes
DC Breaker	No

System Characteristic	
Warranty	3 years free, paid from the 4th to the 15th year
Certification(PCS)	UL1741, CSA C22.2 No 1071, IEEE1547
Certification(MPPT)	UL2202

General Parameters	
Product Model	R-SC107CBS01-US
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	-35°C ~ 60°C
Operating Humidity (RH)	0 ~ 95%

■ Packaging & Shipping Details



MPack 233A

233kWh Liquid-Cooling Battery

Highly Integrated: Combines an all-in-one design with high power density, requiring minimal space and offering flexible transportation and installation.

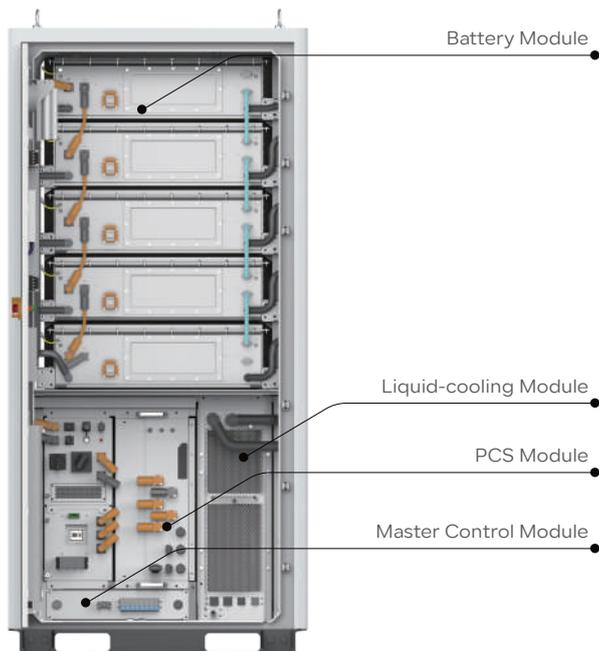
Safety & Reliability: Features comprehensive battery monitoring, multi-level fire prevention, top venting design, and proactive AI management to ensure maximum safety and reliability.

Efficient & Flexible: Boasts a modular structure with high-efficiency liquid cooling, adaptable to extreme environments, maximizing battery life and performance.

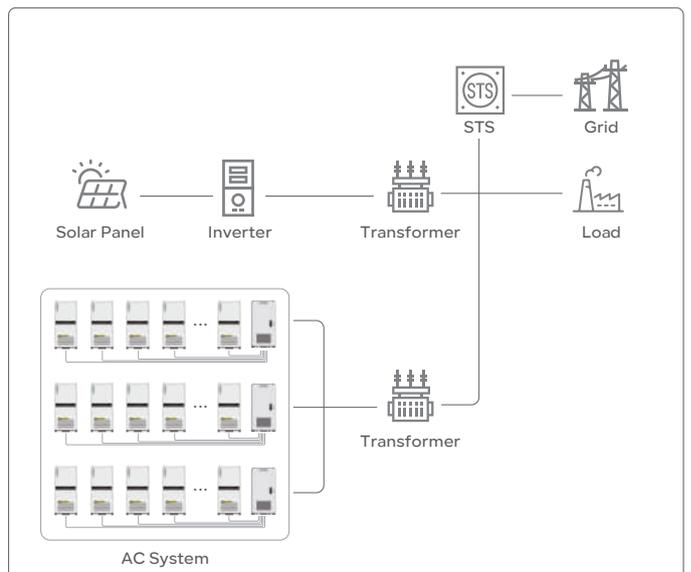
Intelligent Operation & Maintenance: Equipped with a full EMS for easy upgrades, big data-managed inspection, proactive handling, and intelligent SOC calibration for optimal performance without downtime.



System Demonstration



System Layout



Application Scenario



FARM & RANCH



SUPERCOMPUTING



MANUFACTORY

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%

System Characteristic

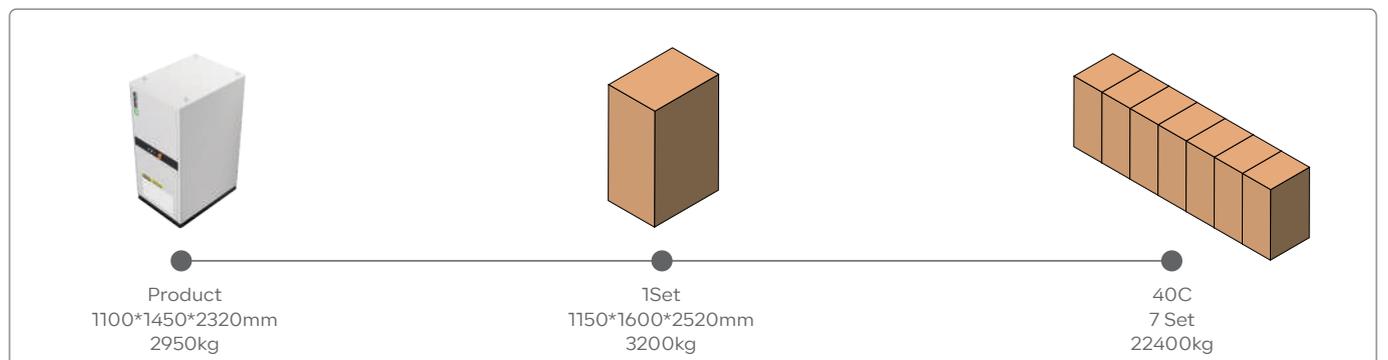
Communication Interface	CAN, RS485, Wi-Fi, LTE
Warranty	3 years free, paid from the 4th to the 15th year
Certifications	IEC 62619, EN 61000-6-1/2/3/4 EN 62019-1/2, UL1973, UL9540A UL9540, UN38.3

General Parameters

Battery Model	R-MP233125A1-US
Dimensions (W*D*H)	1100*1450*2320mm / 43*57*91.3in
Total Weight	2860(±5)kg / 6305(±11)lb
Operation Altitude	2000m / 6561ft
Noise Level @1m	<75 dB(A)
IP Rating	IP54
Operating Temperature	-20°C to 55°C
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



Packaging & Shipping Details



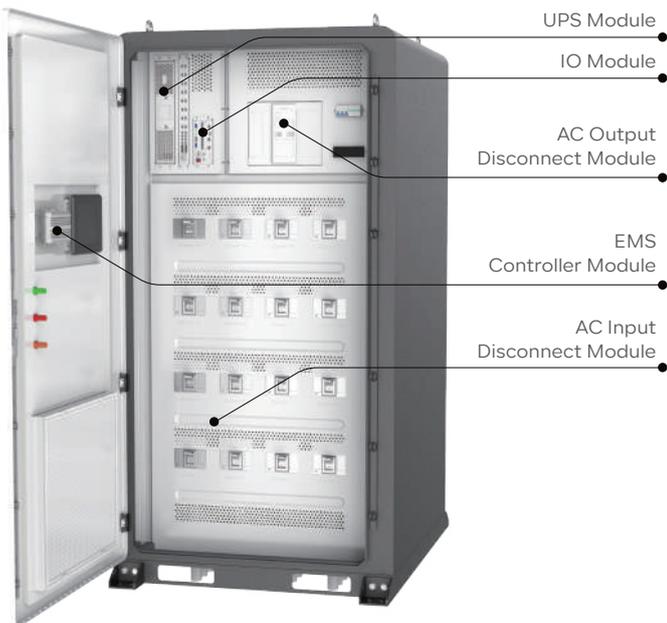
AC Combiner Cube

AC Combiner Cabinet (for Mpack 233A)

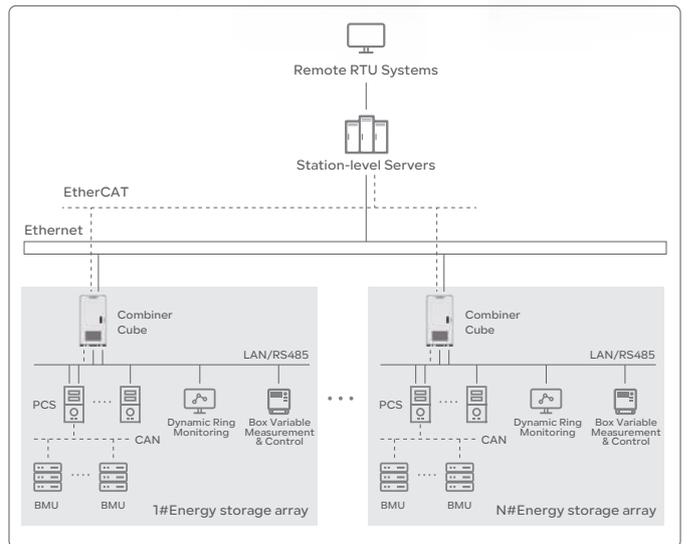
The Combiner Cube is your ideal solution for enhancing the functionality and reliability of the Mpack 233A configuration, ensuring a seamless and efficient energy management experience.



System Demonstration



System Layout



Application Scenario



Model	AC Combiner Cube-16US	AC Combiner Cube-16C
Input Voltage(Vac)	480	690
Access Channel	16	16
Output Channel	1	1
Max. Rated Power(kW)	2000	3200
Rated Current(A)	2406	2678
Measuring Accuracy	Class 0.5 (bidirectional meter)	
Overload Protection	Yes	
UPS	Optional	

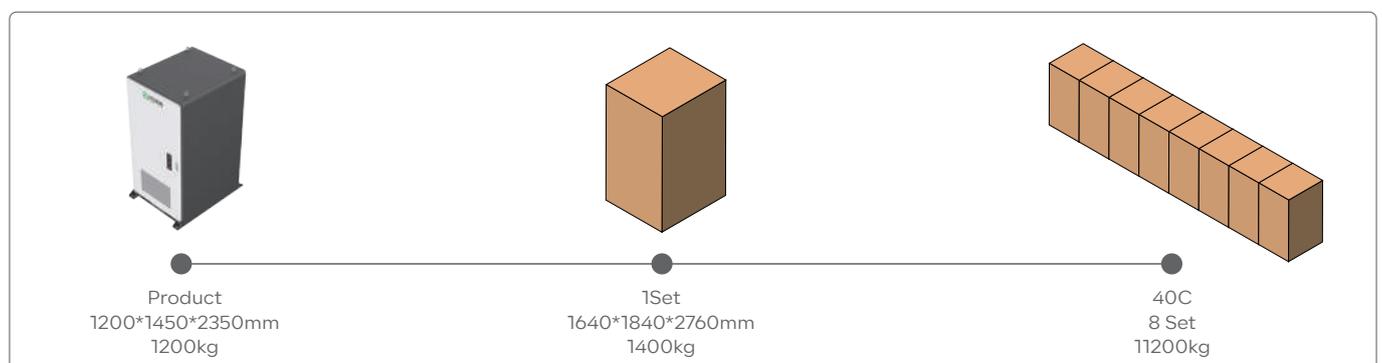
System Characteristic

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

General Parameters

Product Model	R-AC2000ACC01-US	R-AC3200ACC01-C
Dimensions (W*D*H)	1200*1450*2350mm / 47.2*57*92.5in	
Total Weight	1200kg / 2645.5lb	
Altitude	<2000m	
Noise Level @1m	<65 dB(A)	
IP Rating	IP54	
Operating Temperature	-35°C ~ 55°C	
Storage Temperature	-40°C ~ 70°C	
Relative Humidity(Rh)	≤95%, non-condensing	

■ Packaging & Shipping Details



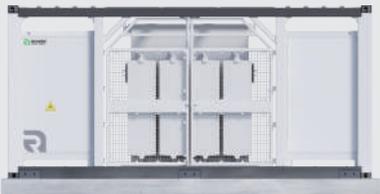
Smart Matrix

Modular Liquid-cooling Distributed Container System

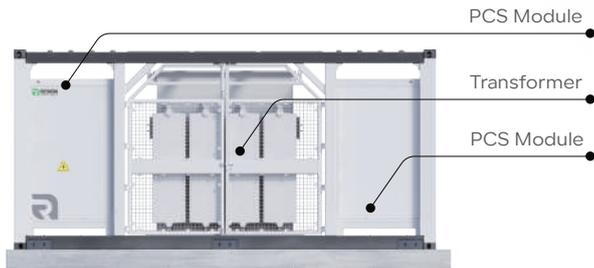
New Generation of Distributed Industrial and Commercial Storage Solutions



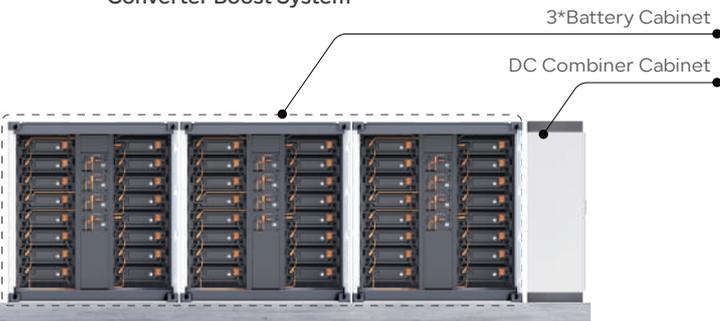
Converter Boost System



System Demonstration

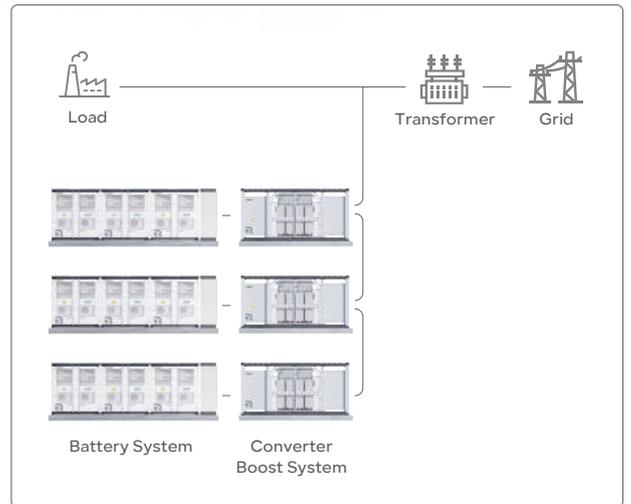


Converter Boost System



Battery System

System Layout



Application Scenario



REMOTE AREA OFF-GRID



ELECTRICITY GENERATING STATION



ISLAND

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(Vac)	11kV~33kV		
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			
Product Model	R-SM1672LCB01	R-SM3344LCB01	R-SM5016LCB01
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	-30°C to 55°C (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		

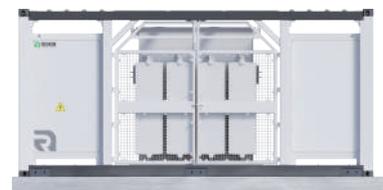
■ Packaging & Shipping Details



1*Battery System
2991*2438*2591mm
~15000kg



2*Battery System
6058*2438*2591mm
~30000kg



Converter Boost System
6058*2438*2896mm
~25000kg

EStand M260

Mobile Battery-Buffered EVC System

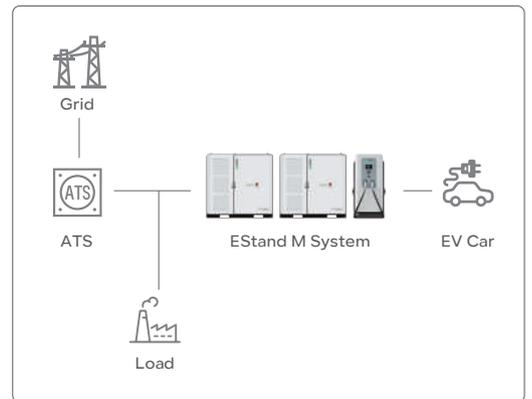
Scalable to 520kWh

2*260kWh liquid-cooled lithium-ion battery



System Demonstration

System Layout



Application Scenario



Energy Storage System	
Battery Capacity(kWh)	261
Battery Charging Rate	≤0.5C
Battery Discharge Rate	≤0.8C
Battery Efficiency	≥97%
Battery Module IP Rating	IP65
Battery Cooling System	Liquid-cooling
Thermal Control Management	Aerosol Extinguishing
Dimensions (W*D*H)	1800*1500*1750mm / 70.8*59*68.9in
Weight	2850kg / 6283lb

AC Input	
Rated AC Output Power(kW)	250
Max. AC Output Power(kVA)	266
Rated Output Voltage(Vac)	480
Output Voltage Range	-15% - +10%(settable)
Grid Frequency Range(Hz)	60Hz(settable)
Max. Output Current(A)	330.8
Power Factor	1 (leading) - 1(lagging)
Adjustable Power Factor	> 0.99
THDi	< 3%
Overloading Capability	110%

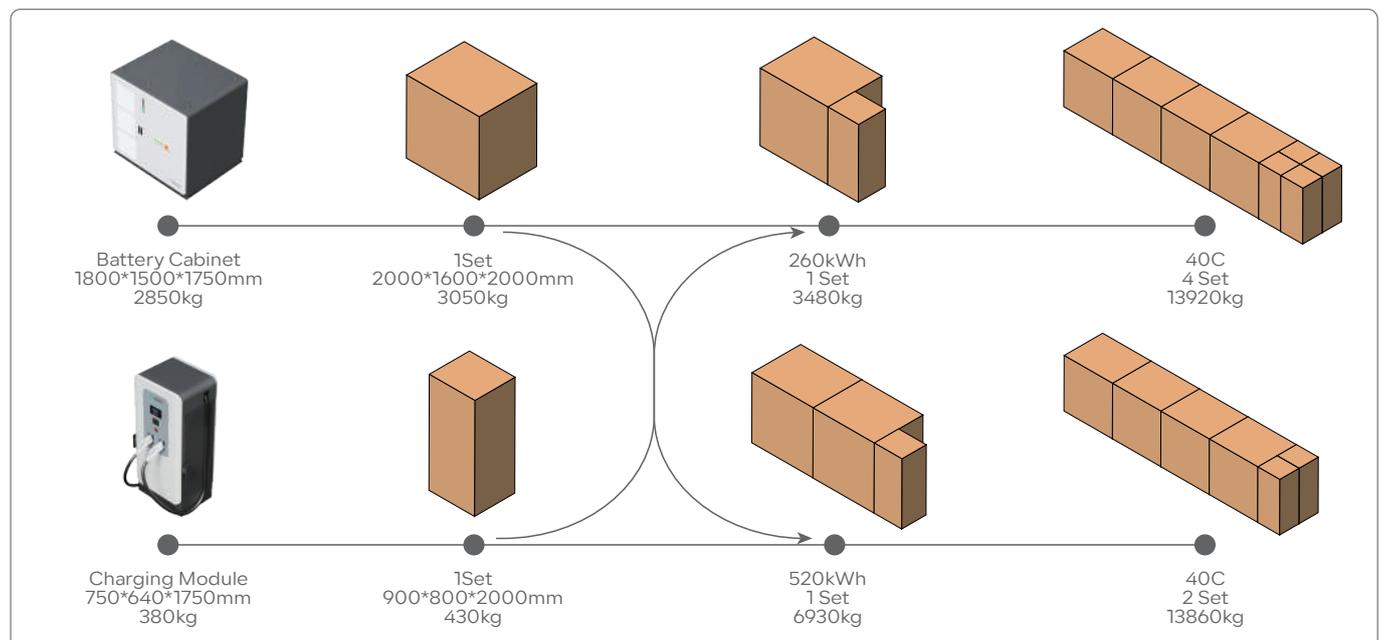
Standard	
Battery	UL9540A
EV Charger	UL2202, FCC, EN 61851-1, EN 61851-23, EN 61000-2/-4
System Level	UL 1973, UL9540A, UL9540 FCC, IEC 62619, EN62109-1/2 EN61000-6-2/4, UN38.3

Charging System	
Charging Type	DC fast charging
DC Output Power(kW)	240
DC Output Voltage(Vdc)	200-1000*
Maximum Current(A)	250
Distribution Systems	TN-S,TN-C, TN-C-S, TT (required external RCD)
Connector Type	3P +N + PE
Protection	Overcurrent, overvoltage, undervoltage, integrated surge protection, ground fault including DC leakage protection, door opening protection
Power Factor (Full Load)	≥ 0.99
THDi	< 5%
Efficiency	≥ 94% (peak)
Dimensions (W*D*H)	750*640*1750mm / 29.5*25*68.9in
Weight	380kg / 837.7lb

*Constant power from 300-1000

General Parameters	
Product Model	R-ST261250A0-US
Ambient Temperature	-25°C-50°C(over 45°C derating)
Humidity	≤95%, No condensation
Storage Conditions	-20°C to 30°C, Up to 95% RH, non-condensing, State of Energy (SoE): 50% initial
Altitude	2000m / 6561ft
Noise Level @1m	<80 dB(A)
EMC Emission	Type A
Medium Interference	No explosive hazardous, No toxic & harmful gases Without strong vibration and shock, no strong electromagnetic interference
System IP Rating	IP54

■ Packaging & Shipping Details



EStand 240

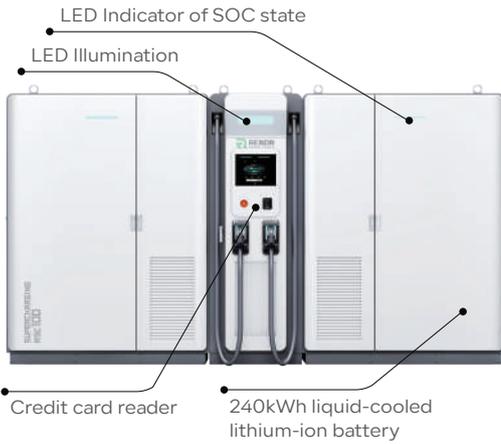
Battery-Buffered EVC System

Scalable to 480kWh

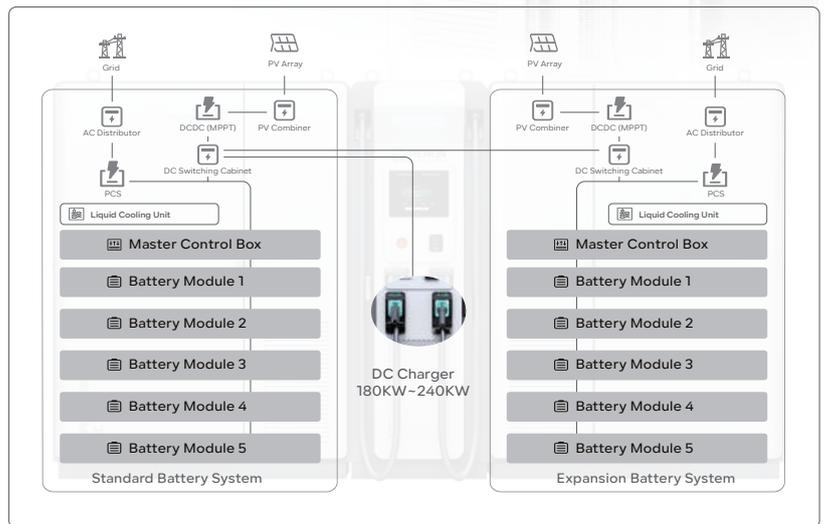
2*240kWh liquid-cooled lithium-ion battery



System Overview



System Layout



Application Scenario



Product Specification	EStand 240	EStand 480
Type	DC Charging Station With ESS	
Installation	On Ground	
Applicable Site	Outdoors or Underground Parking	
Material	Industrial Grade Alloy	
Color	White weather-resistant coating	
Dimensions (W*D*H)	2557*700*2350mm / 100.7*27.5*92.5in	4314*700*2350mm / 201.4*27.5*92.5in
Weight	3850kg / 8487.8lb	7350kg / 16204lb
Energy Storage System		
Battery Capacity(kWh)	240	480
Battery Charging Rate	≤0.5C	
Battery Discharge Rate	≤0.8C	
Battery Efficiency	≥97%	
Battery Module IP Rating	IP65	
Battery Cooling System	Liquid-cooling	
Thermal Control Management	Aerosol Extinguishing	
AC Output		
Rated AC Output Power(kW)	125	250
Max. AC Output Power(kVA)	137.5	275
Rated Output Voltage(Vac)	480	480
Output Voltage Range(Vac)	-15% ~ +10%(settable)	
Rated Grid Frequency(Hz)	60Hz(settable)	
Max. Output Current(A)	165.4	330.8
Adjustable Power Factor	>0.99	
THDi	<3%	
PV Input		
DC Input Voltage(Vdc)	300~825(Start up Voltage:375)	
Max Input current(Adc)	100	200
Rated Power(kW)	60	120
Number of MPPT	2	4
Cooling System	Air-cooled	
Standard		
Battery	UL9540A	
EV Charger	UL2202, FCC, EN 61851-1, EN 61851-23, EN 61000-2/-4	
System Level	UL 1973, UL9540A, UL9540, FCC, IEC 62619, EN62109-1/2, EN61000-6-2/4, UN38.3	
Safety		
Input Protection	Under voltage protection,over voltage protection,over current protection, over temperature protection,leakage protection, lightning protection, short circuit protection	
Output Protection	Short circuit protection,over-temperature protection,communication fault protection,leakage protection,over-current protection	
Emergency Protection	Set emergency stop button,leakage protection function,high-precision output insulation monitoring function	
Special Protection	IP54 protection level, anti-salt damage	

Charging System	EStand 240	EStand 480
Charging Voltage(Vdc)	150~1000(Constant power from 300-1000)	
Charging Efficiency	95% (peak)	
Connectors	2	
Power Distribution	2 connectors intelligent distribution	
Charging Power	180kW/240kW	
Cable	400A, 5m, CCS	
Cooling System	Air-cooling	
User Interface	7" LCD high-contrast touchscreen, optional 15.6" or 32" LCD display	
User Authentication	RFID, QR code	
RFID Reader	ISO/IEC 14443 A Mifare RFID reader	
Connectivity	4G/3G/Ethernet (RJ45)	
Communication	Proprietary and OCPP 1.6J	
Emergency Button	Yes	

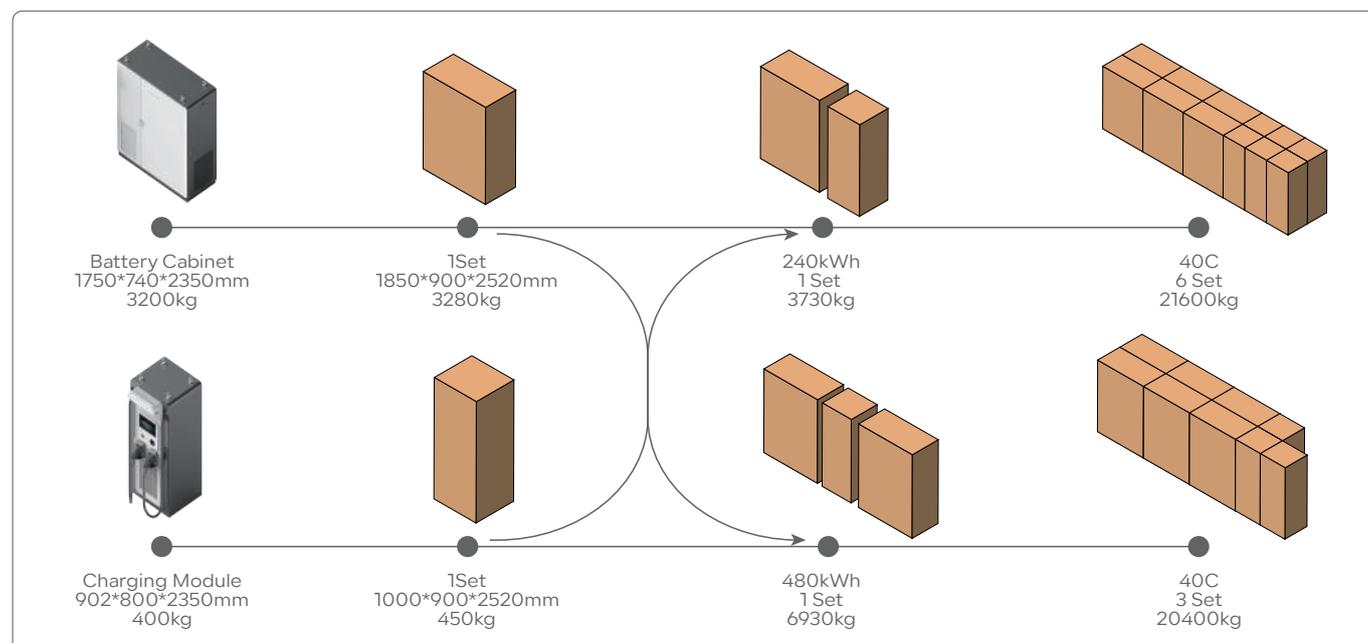
Meter

AC Side	AC meter
DC Side	2-access DC meter

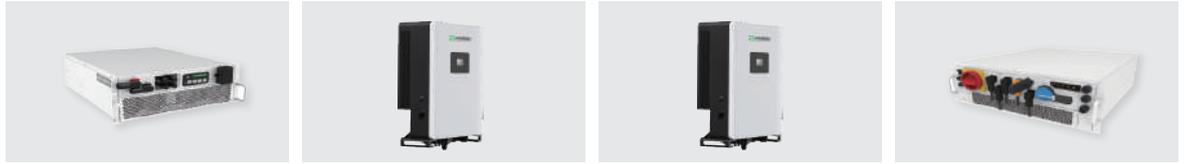
General Parameters

Product Model	R-ST240125A0-US	R-ST480250A0-US
Ambient Temperature	-25°C ~ 50°C(over 45°C derating)	
Humidity	≤95%, No condensation	
Storage Conditions	-20°C ~ 30°C, Up to 95% RH, non-condensing, State of Energy (SoE): 50% initial	
Altitude	2000m / 6561ft	
Noise Level @1m	<80 dB(A)	
EMC Emission	Type A	
Medium	No explosive hazardous, No toxic & harmful gases	
Interference	Without strong vibration and shock,no strong electromagnetic interference	
System IP Rating	IP54	

■ Packaging & Shipping Details



Selection



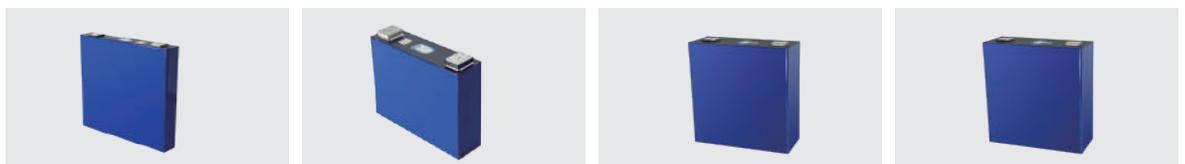
Intelligent PCS	30kW	30kW	60kW	125kW
Voltage Range(Vdc)	150-750	150-500	400-800	720-1300
AC Output(Vac)	3W3P+PE, 480 (±15%)	120/208	277/480	480, 3P+PE
AC frequency(Hz)	60 (±2.5)	50/60	50/60	60



Master Control	R-MC150-ECO4	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 / 61.7lb	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



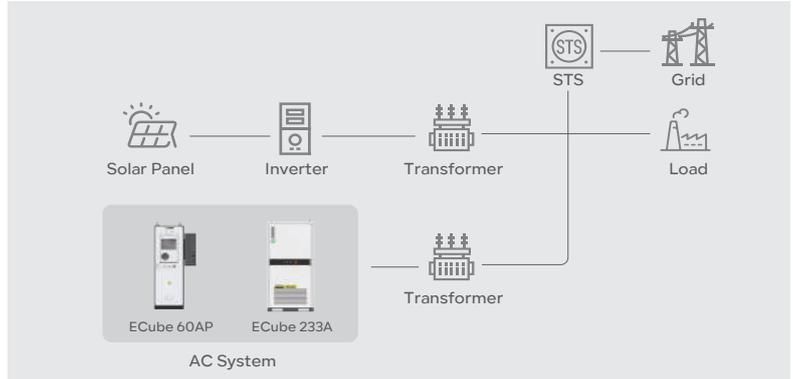
Battery Cell	RF100	RF205	RF280	RF314
Rated Capacity(Ah)	100	205	280	314
Rated Voltage(V)	3.2	3.2	3.2	3.2
Max. Charge Rate	1C	1C	1C	1C
Internal Resistance	≤ 0.8mΩ	≤ 0.5mΩ	< 0.3mΩ	< 0.3mΩ
W*D*H(prediction)	174*27.2*207mm / 6.8*1*8.1in	174*53.7*207mm / 6.8*1.5*8.1in	174*71*207mm / 6.8*2.8*8.1in	174*71*174mm / 6.8*2.8*8.1in

Solution

AC System Solution

Reliable Power for Commercial and Industrial Applications

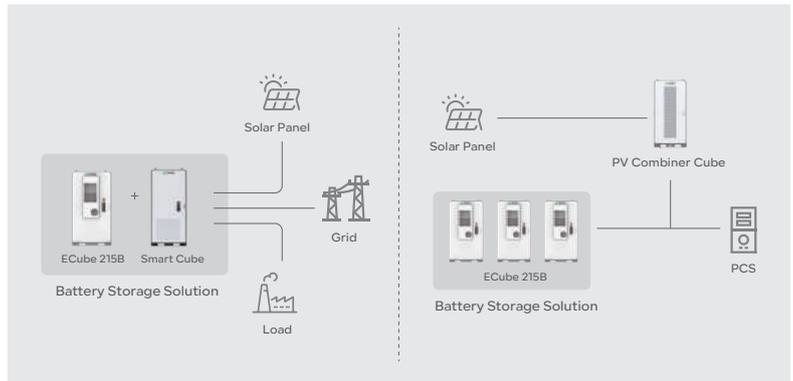
AC solutions provide consistent and efficient energy, ideal for factories, remote offices, suburban residences, farms, convenience stores, and supermarkets. Multiple product options ensure uninterrupted power supply.



Battery Storage Solution

High-Performance Energy Storage

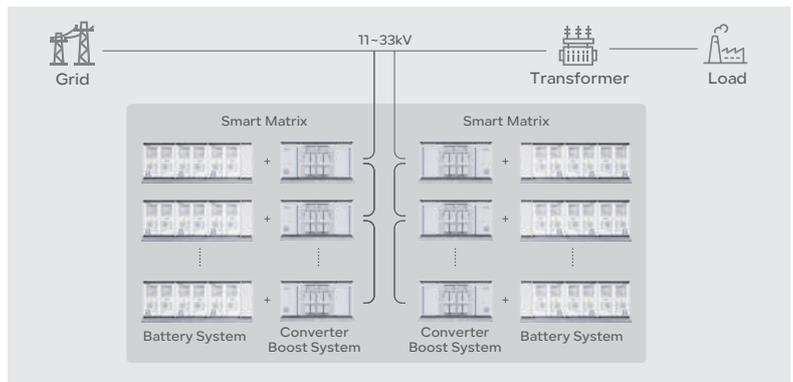
The battery system offers robust and scalable energy storage, perfect for commercial and industrial facilities. Various product options optimize energy use and enhance reliability in remote and urban settings.



Distributed Energy Storage Solution

Optimal Performance for Diverse Applications

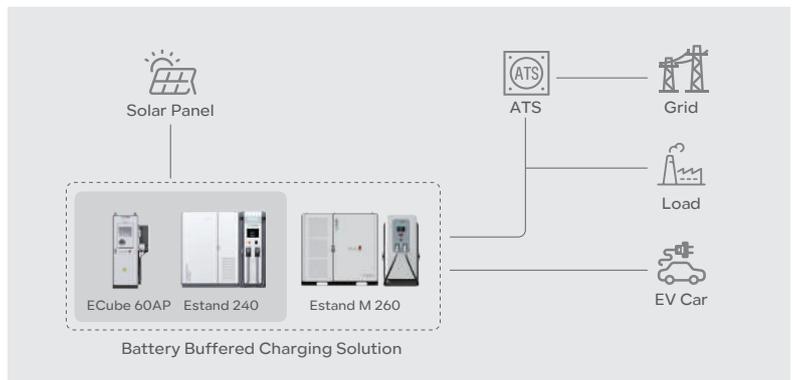
The distributed energy storage system delivers high-efficiency and modular energy storage, suitable for both urban and remote settings. This versatile solution ensures optimized energy management and enhanced reliability for commercial, industrial, and residential uses, offering scalable options to meet varying energy demands.



Battery Buffered Charging Solution

Efficient and Sustainable Charging for Parking Lots

The battery-buffered charging solution delivers efficient and sustainable energy for parking lots in shopping malls, hotels, large office buildings, and supermarkets, reducing grid dependency and enhancing energy efficiency.



ProControl Base

Cabinet Level Local ESMU

High-end integrated display and control system for commercial and industrial energy storage solutions.



Features



High-Performance Data Processing MCU

Equipped with a powerful processor and ample memory, ensuring fast response to demand-side instructions and efficient data processing.



Advanced Graphics and AI Capabilities

Featuring advanced graphics processing and AI capabilities, offering robust performance for enhanced device intelligence.



High-Brightness Full-View Touch Display

1280*800 resolution, 45cd/m² brightness, full viewing angle, and three-point capacitive touch screen, allowing easy viewing of system data and settings both indoors and outdoors.



Independent Smart Local Control

Built-in modes such as self-use, peak shaving, PV priority, grid priority, backup, and battery modes provide convenient local operation. Supports local intelligent monitoring, data curve generation, parameter settings, firmware updates, maintenance report generation, and log recording for simplified after-sales service.



Flexible Cloud Connectivity

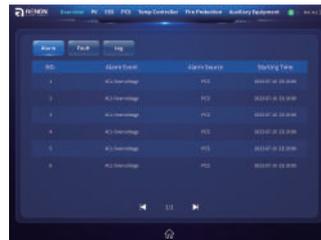
Supports multiple interfaces including LAN, WiFi, and LTE for versatile cloud platform connections based on customer needs.



Comprehensive Communication & Control Interfaces

Includes CAN, RS485, RS232, Type-C, USB3.0, LAN, TF card slot, Nano SIM, HDMI, and RTC interfaces, enabling connection to various external devices and sensors for centralized management and control.

Interface Showcase



Parameters

General Parameters	
CPU	RK3568 4x A53@2.0GHz
Memory	RAM: 4GB, EMMC: 64GB, EEPROM: 64KB, SSD: 1T(Optional)
GPU	Mail-G52
NPU	Support 1 Tops computing power
OS	Ubuntu 20.04
Brightness	450cd/m ²
Resolution	1280*800
Angle	Full viewing Angle
Touch	3 point capacitive screen
Communication interface	3* CAN, 6* RS485, 1*RS232, 1*Type-C, 1* USB3.0, 4* 1000Mbps, Lan, 1* TF card, 1* Nano SIM card, 1* HDMI, 1* RTC
Control interface	12* DO, 16* DI, 2* NTC, 1* Buzzer
Wireless communication	Wifi/BT, 4G, GPS
IP Rating	IP65
Operating temperature	-20°C~70°C

ProControl Prime

Station Level Local EMS

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



Features



Information Summarization and Monitoring

EMS collects and uploads operational data of distributed energy storage systems for centralized monitoring. It displays system trends, performance metrics, and fault history to help users optimize operations.



Strategy Algorithm Configuration

EMS offers flexible strategy algorithms for customizing energy storage system operations based on specific needs and system conditions. This allows for optimal energy dispatch and management to maximize efficiency and cost-effectiveness.



Alarm Generation and Handling

EMS provides a user-friendly tool for creating graphical interfaces of energy storage systems. It allows real-time monitoring and management through topology, status diagrams, and device controls.



Energy Metering and Anti-Reverse Flow Control

EMS handles energy metering and anti-reverse flow control, effectively managing energy flow within the storage system and ensuring stable PCS operation.



BMS Data Collection and Display

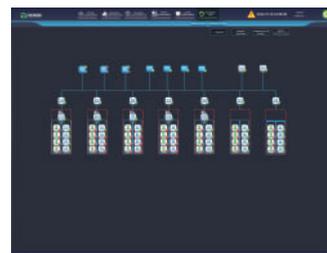
EMS communicates with Battery Management Systems (BMS) to collect real-time data on battery parameters and displays it graphically. This includes battery health, charge/discharge status, SOC, and SOH.



Profit Analysis

EMS includes robust profit analysis capabilities for in-depth assessment of energy storage system operational data. This analysis helps users evaluate economic benefits, providing strong support for decision-making.

Interface Showcase



Parameters

General Parameters	
CPU	2U Rack Server
Memory	Intel® Xeon® Gold 5218 Processor 22M Cache, 2.30 GHz, Qty 2
Hard disk capacity	64G
NIC	3*1.2T SAS
PCIE	4 Gigabit LAN cards 6 PCIe 3.0
Power Supply	slots 550W power supply*2
Chassis Size	Chassis Specifications: 445*87*746mm
IP Rating	IP20
Operating Temperature	5.0°C ~ 40.0°C (41.0°F ~ 104.0°F)
Operating Humidity	85% RH

Renon Smart

Cloud Energy Management System

We're Using Smart Power to Simplify Your Life.

Renon Smart is a comprehensive device management and monitoring solution for national agents, secondary agents, installers and users. Comprehensive system for managing large-scale power station and commercial and industrial energy storage systems



Features



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 a Six-Level Distribution System

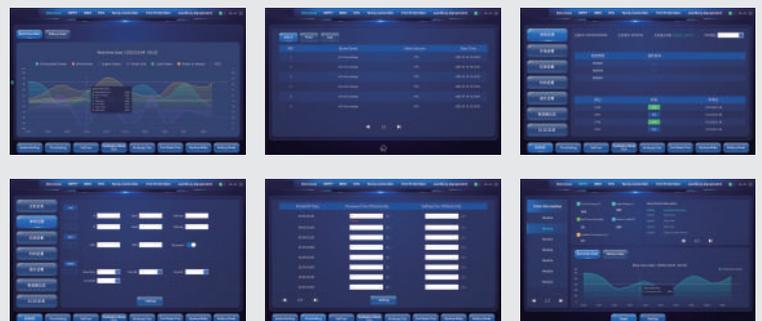
The six-level distribution system, from the brand owner to end-users, is more conducive to robust product channel construction.



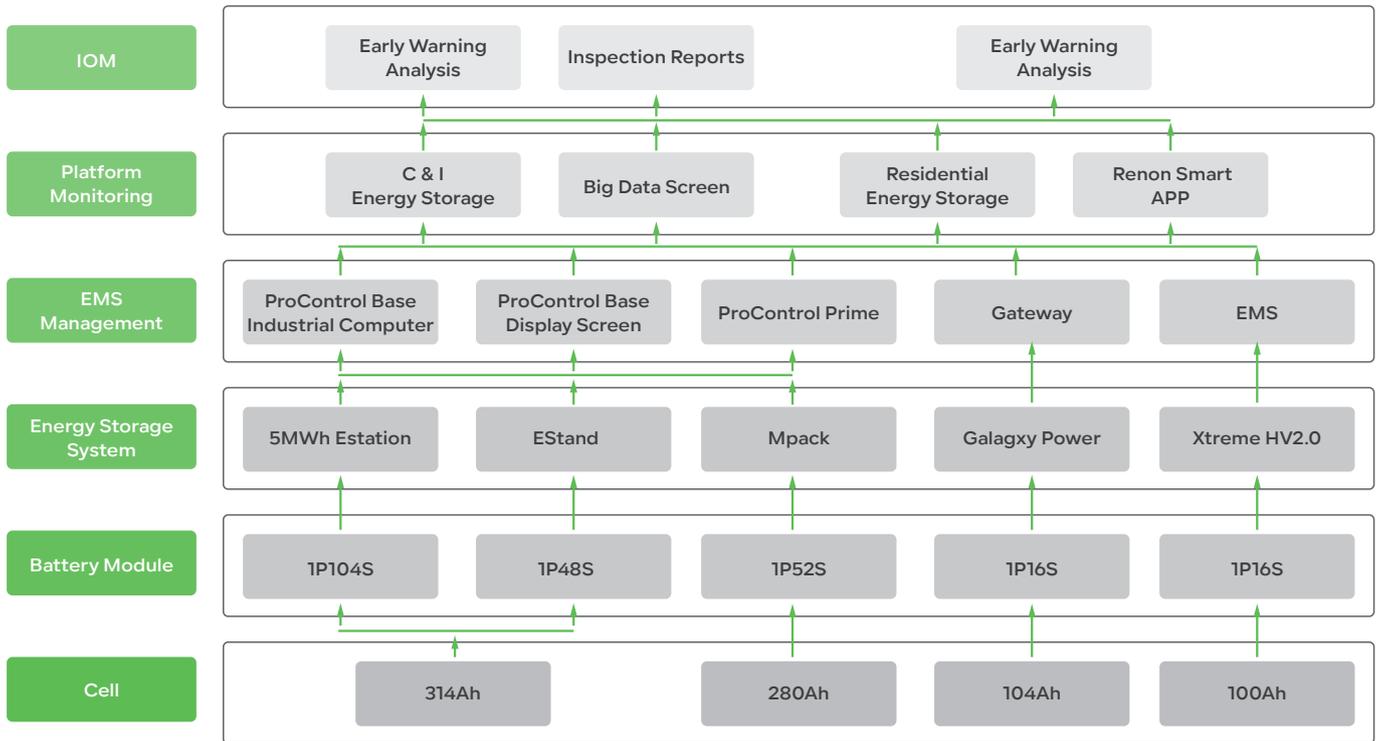
Seamless Connections with Intelligent Mall and Trial Applications

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

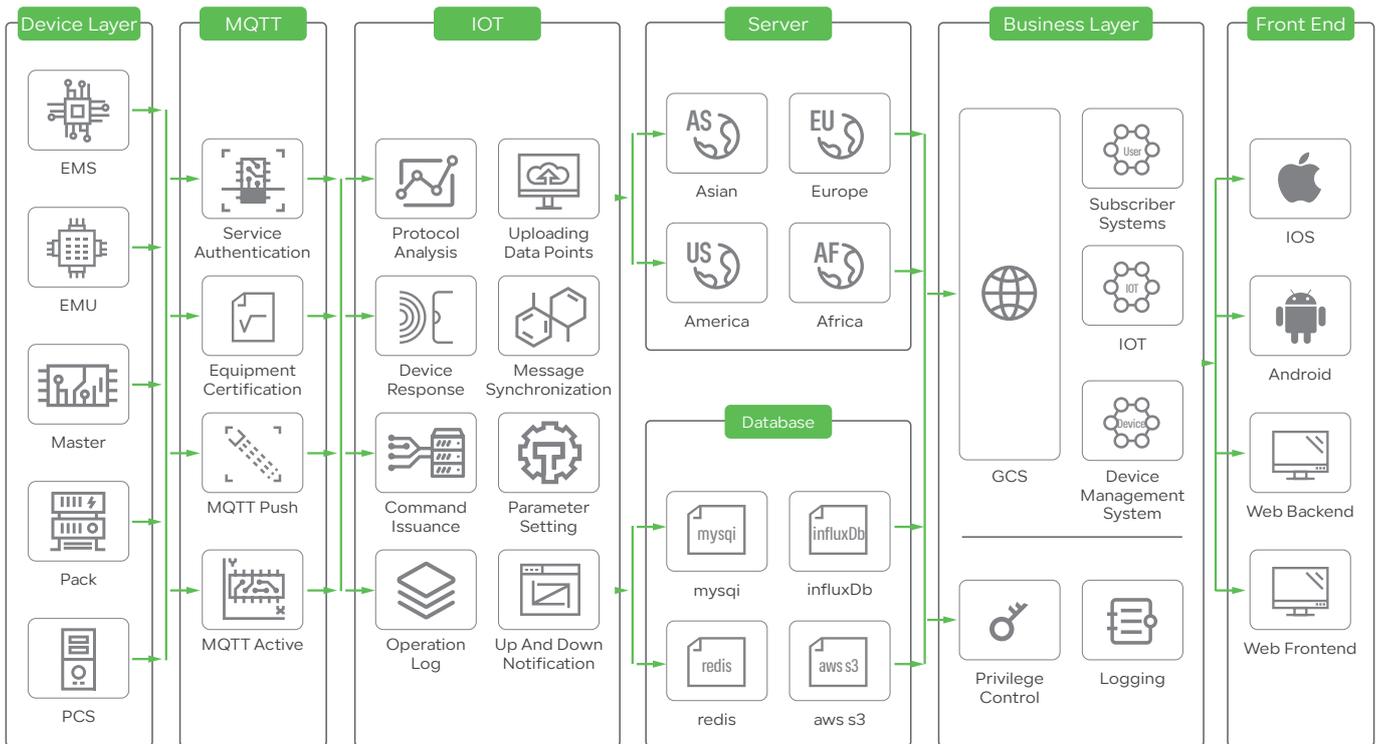
Interface Showcase



Physical Link



Platform Architecture



Installation Cases

Renon Power's global installations of microgrid systems enhance energy efficiency and sustainability, providing reliable power solutions for diverse commercial and industrial applications.



Renon AC ECube 186kWh

Johannesburg, South Africa



Renon DC ECube 157kWh

Kitsuki City, Japan



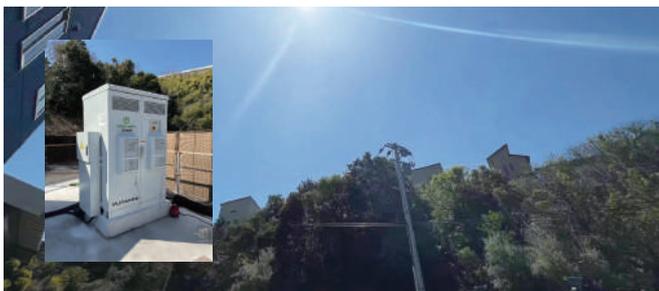
Renon DC ECube 38kWh

Chiba Prefecture



Renon DC ECube 157kWh

Fukushima, Japan



Renon DC ECube 157kWh

Kagoshima, Japan



Renon DC ECube 15kWh

Saitama, Japan



Renon Estation 744kWh

Capte Town, SA



Renon DC ECube 38kWh

Gunma prefecture, Japan

Renon Exhibition

At Renon Power, our team is our greatest asset. We are a diverse group of passionate professionals, united by a shared mission to make green power within reach.

The Smarter E 2024

Germany



RE Plus 2023

The United States



EnerGaia 2023

French



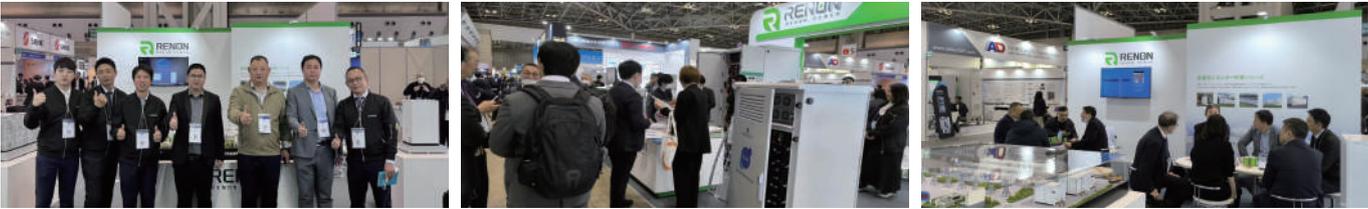
Energy Storage Summit Central Eastern Europe

Eastern Europe



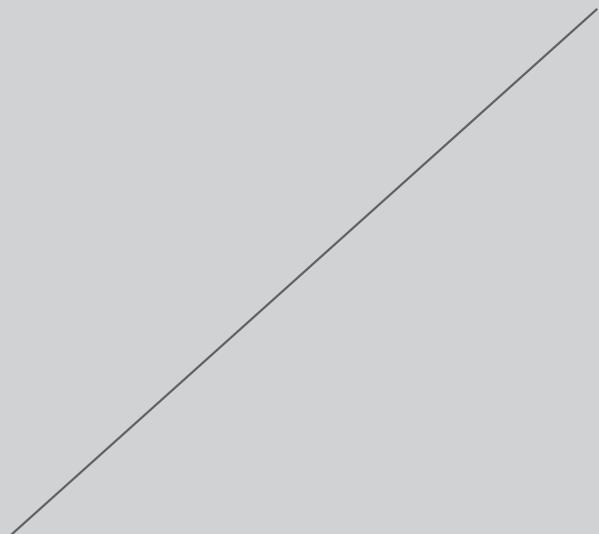
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PROVIDE
INNOVATIVE,
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