

ECube 215B_(US)

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.

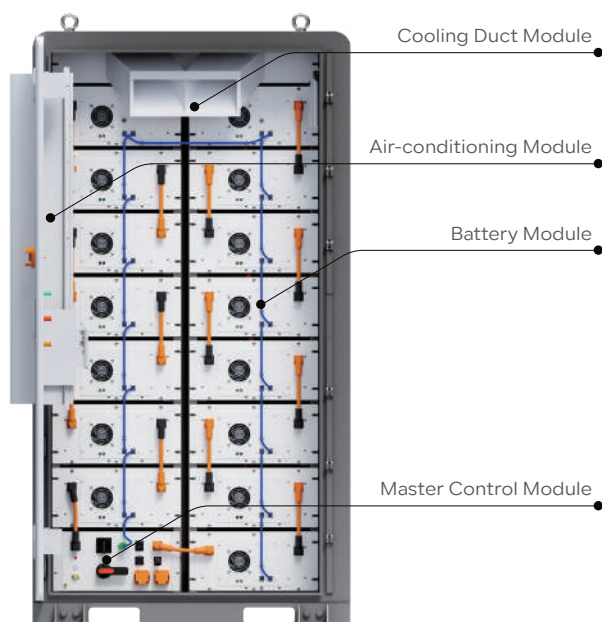
Efficient BMS Technology: Features high-efficiency equalization technology and low power consumption BMS sampling chips, reducing module inconsistencies and eliminating series loss for optimal performance.

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.

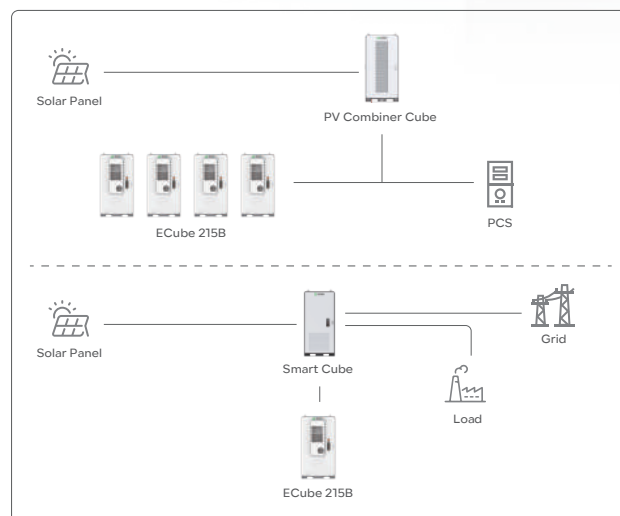
Easy Installation & Maintenance: Standardized design for simplified installation and user deployment, with a fully modular setup for convenient operation and maintenance, both locally and via cloud systems.



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							

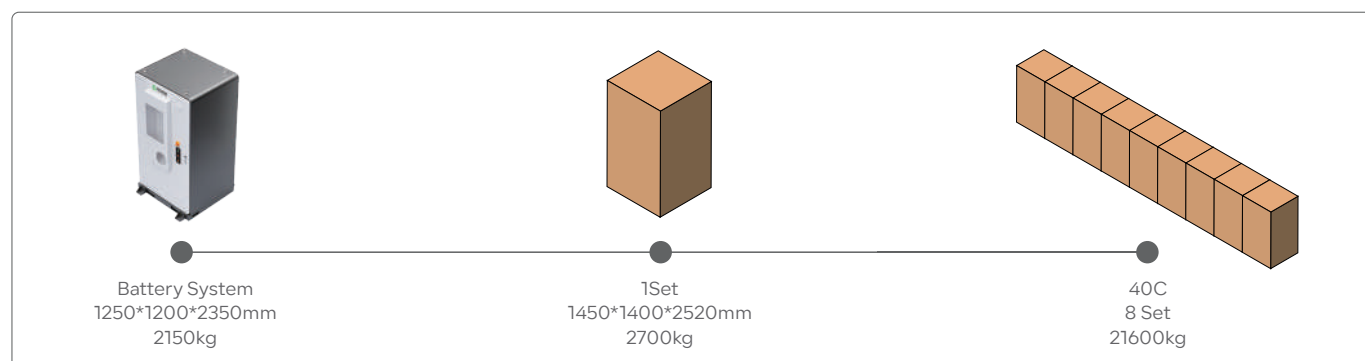
System Characteristic

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

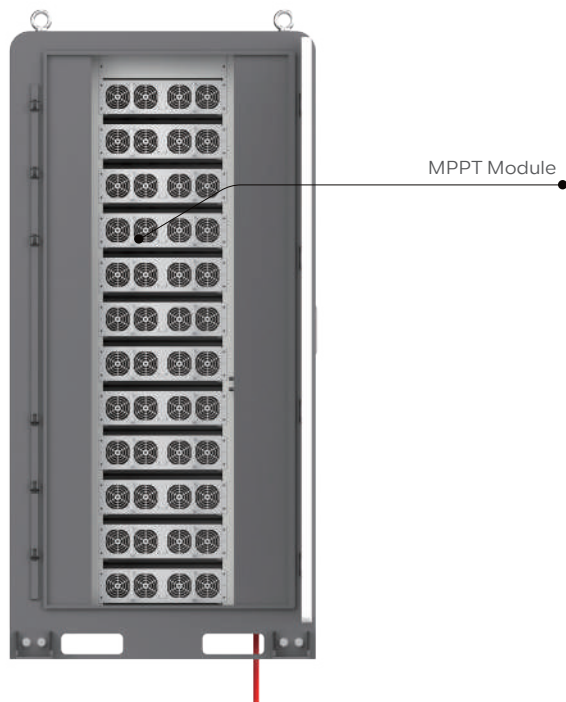
PV Combiner Cabinet (for ECube 215B)

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.

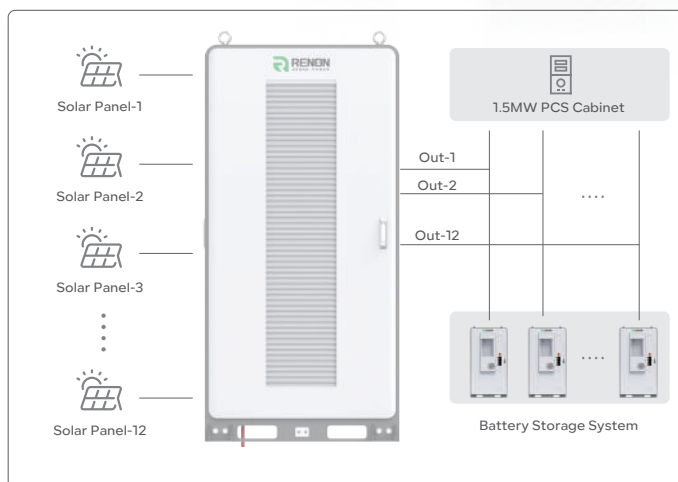
One PV Combiner Cube can support up to 12 ECube 215B.



System Demonstration



System Layout



Application Scenario



ELECTRICITY GENERATING STATION



INDUSTRIAL PARK



REMOTE AREA OFF-GRID

PV Input	
Input Voltage(Vdc)	300~825
The Max. Static Voltage Borne under 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

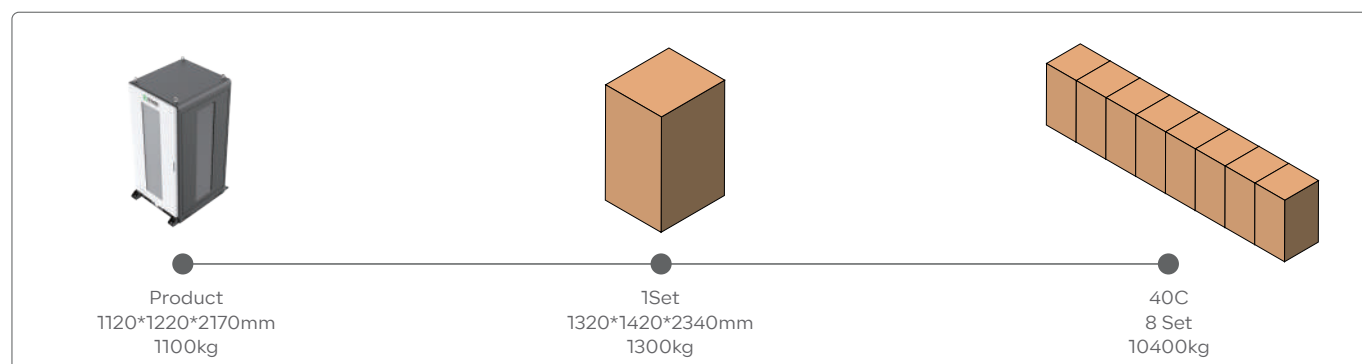
DC Output	
Individual Module Output Power(kW)	30
Max. Number of Modules	12
Total Output Power(kW)	360
Output Voltage Range(Vdc)	150 ~ 1000
Output Current Range(Adc)	0~100@Per MPPT
Voltage Regulation Accuracy	<±0.5%(150~1000V, 0~20MHz)
Precision of Steady Current	≤±1%(Output load 20% ~ 100%)
Load Regulation	≤±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



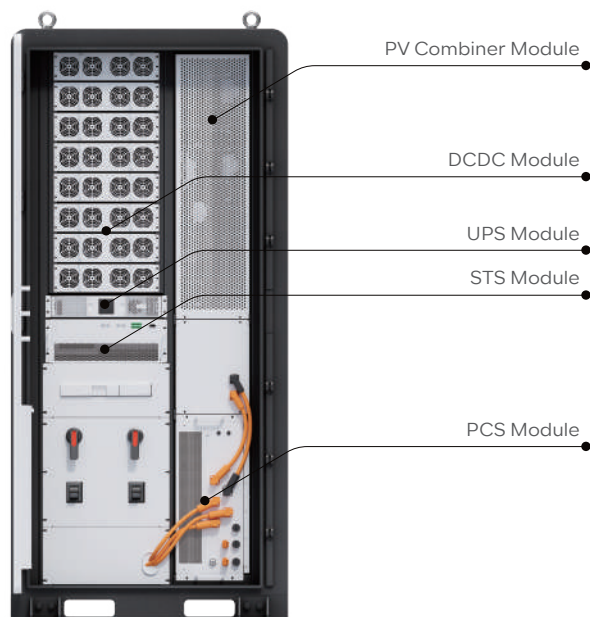
Smart Cube

Intelligent EMS Cabinet (for ECube 215B)

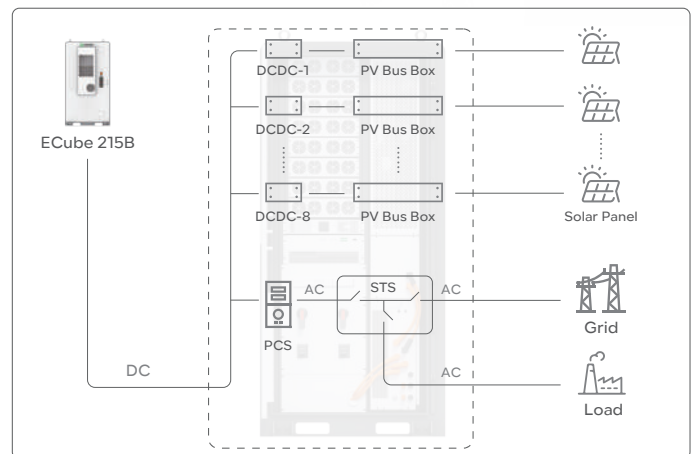
The "Smart Cube" intelligent EMS cabinet is designed for the ECube 215B, integrating PCS, DCDC, and STS modules into a unified energy management system. Utilizing advanced EMS technology, it provides real-time monitoring and optimization of energy flow, enhancing system stability and efficiency. Smart 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



COMMUNITY



OFFICE SPACE



FARM

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

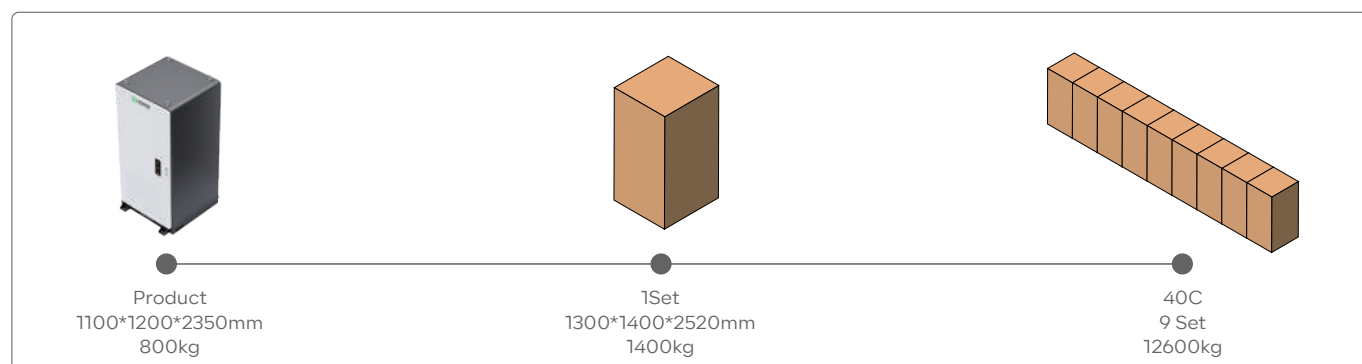
AC Output	
Rated Grid Voltage (Vac)	480 / 3P3W
Max. Continuous Input Current (Aac)	165.4
Rated Frequency (Hz)	60
Rated Power (kW)	107
Power Factor	>0.99(at rated power)
Adjustable Power Factor	-1~1
THDi	<3%(at rated power)
Overload Capacity	110%
Integrated STS	NO

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 107.1, 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



ECube 215B_(EU)

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.

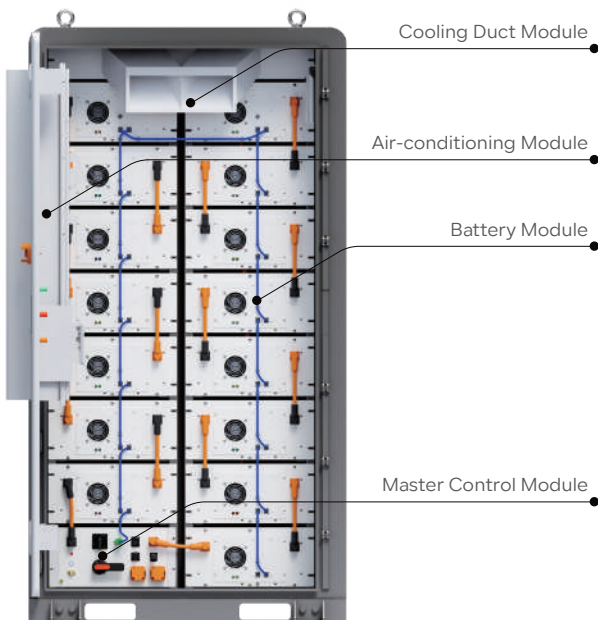
Efficient BMS Technology: Features high-efficiency equalization technology and low power consumption BMS sampling chips, reducing module inconsistencies and eliminating series loss for optimal performance.

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.

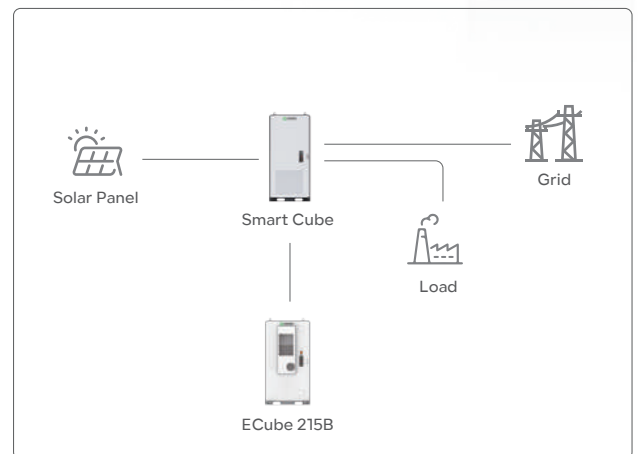
Easy Installation & Maintenance: Standardized design for simplified installation and user deployment, with a fully modular setup for convenient operation and maintenance, both locally and via cloud systems.



System Demonstration



System Layout



Application Scenario



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Charge/Discharge Current	0.5C							
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Service Life	>8000 cycles@80% DoD							
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Thermal Runaway Management	Aerosol Extinguishing or PFH							

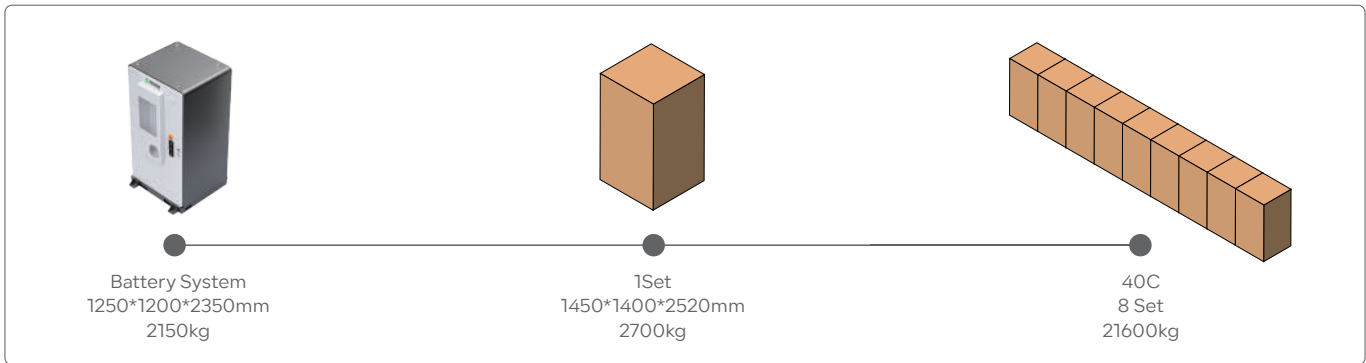
System Characteristic

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

System Model	R-EC144LCB01	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

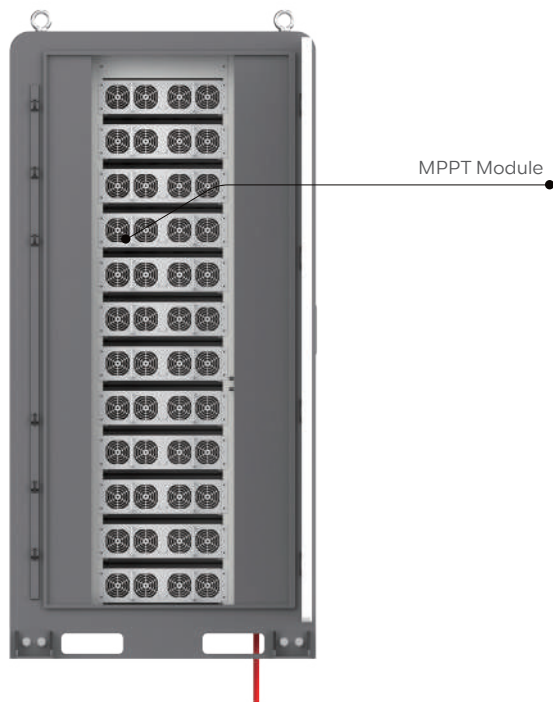
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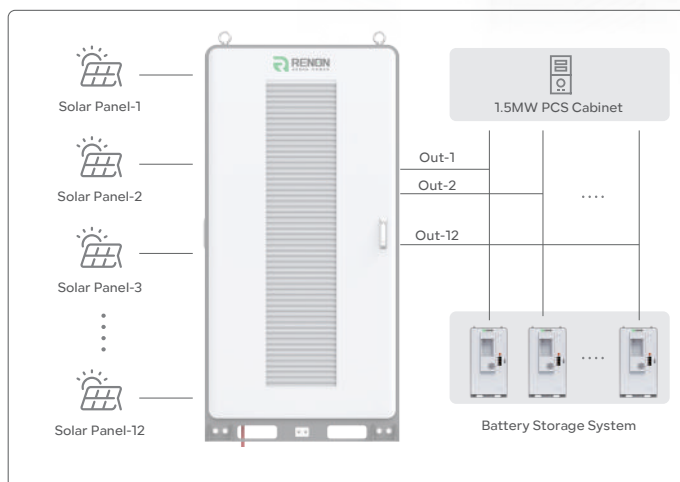
One PV Combiner Cube can support up to 12 ECube 215B.



System Demonstration



System Layout



Application Scenario



ELECTRICITY GENERATING STATION



INDUSTRIAL PARK



REMOTE AREA OFF-GRID

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

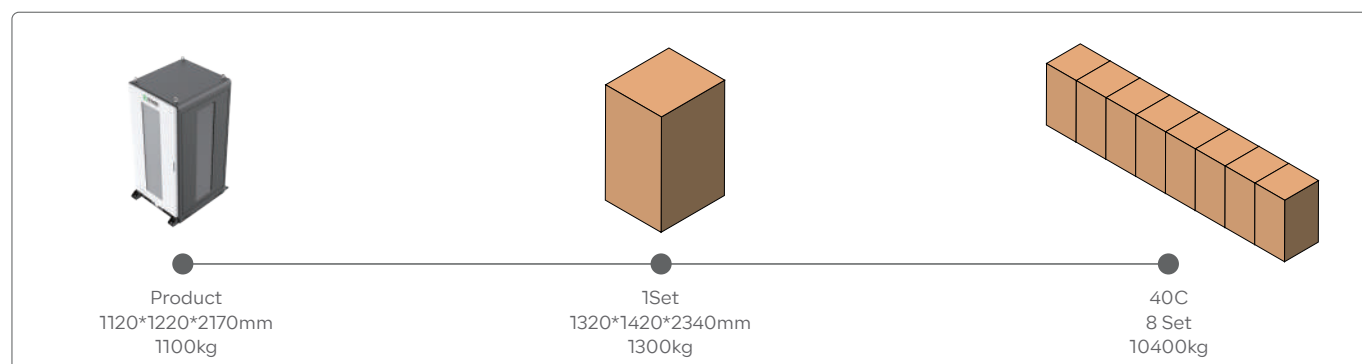
DC Output	
Individual Module Output Power(kW)	30
Max. Number of Modules	12
Total Output Power(kW)	360
Output Voltage Range(Vdc)	150 ~ 1000
Output Current Range(Adc)	0~100@Per MPPT
Voltage Regulation Accuracy	< ±0.5%(150~1000V, 0~20MHz)
Precision of Steady Current	≤ ±1%(Output load 20% ~ 100%)
Load Regulation	≤ ±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



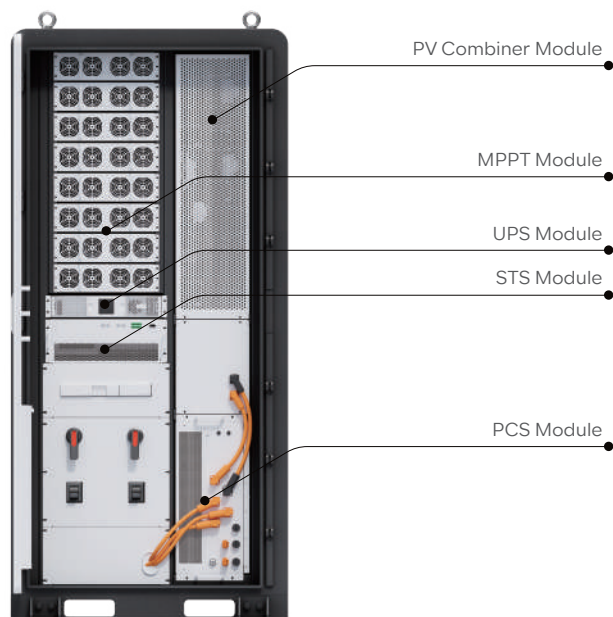
Smart Cube

Intelligent EMS Cabinet (For 215B)

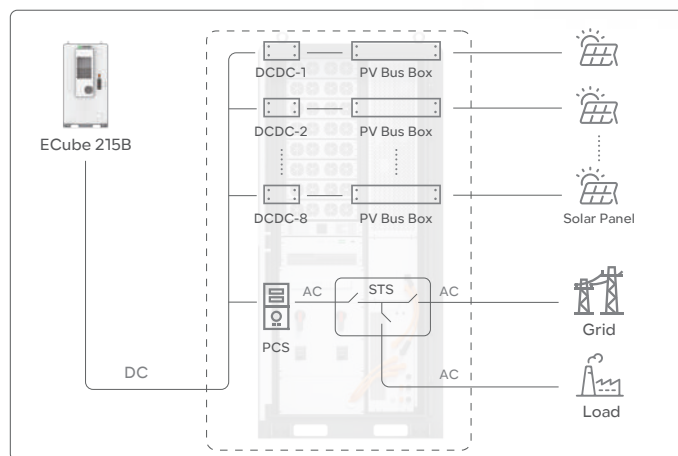
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System Demonstration



System Layout



Application Scenario



COMMUNITY



OFFICE SPACE



FARM

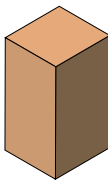
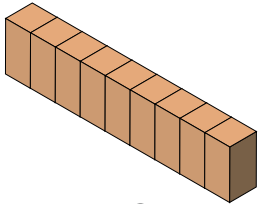
PV Input	
Rated Power (kW)	240
Input Voltage(Vdc)	300~825
The Max. Static Voltage Borne under No Operation(Vdc)	900
Rated Voltage(Vdc)	700
Standby Power Consumption	<14W*8 @700Vdc with normal standby mode / <4W*8 @700Vdc with super standby mode
Max. Input Current(Adc)	50*8
Number of MPPT	8
No. of PV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

AC Output	
Rated Grid Voltage (Vac)	480 / 3P3W
Max. Continuous Input Current (Aac)	165.4
Rated Frequency (Hz)	50/60
Rated Power (kW)	107
Power Factor	>0.99(at rated power)
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	
Product Model	R-SC107CBS01-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	-35°C ~ 60°C
Operating Humidity (RH)	0 ~ 95%

Packaging & Shipping Details

 Product 1100*1200*2350mm 800kg	 1Set 1300*1400*2520mm 1400kg	 40C 9 Set 12600kg
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