

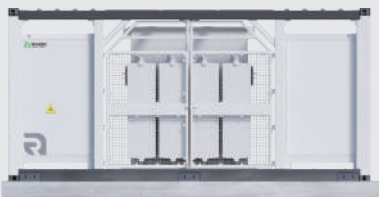
# Smart Matrix<sub>(US)</sub>

## Modular Liquid-cooling Distributed Container System

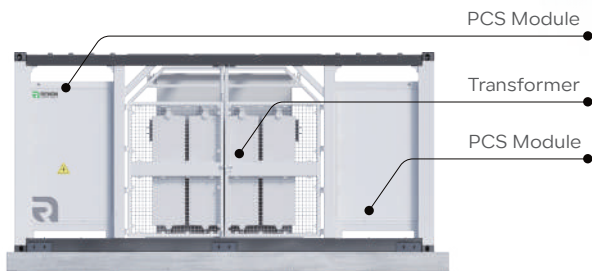
New Generation of Distributed Industrial and Commercial Storage Solutions



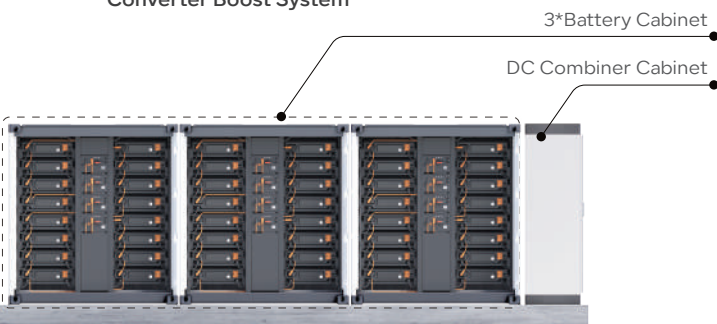
Converter Boost System



### System Demonstration

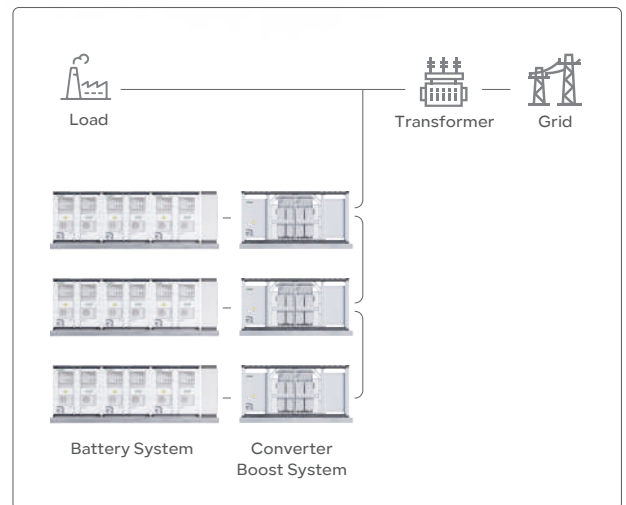


Converter Boost System



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		

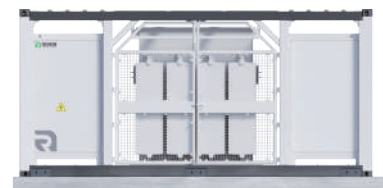
### ■ Packaging & Shipping Details



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



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



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

# Smart Matrix<sup>(EU)</sup>

## Liquid-cooling Distributed Container System

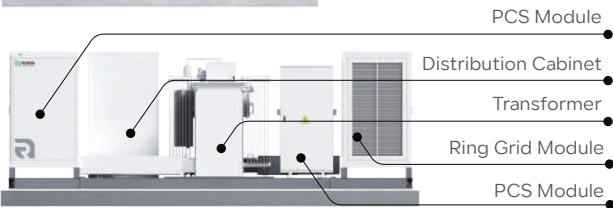
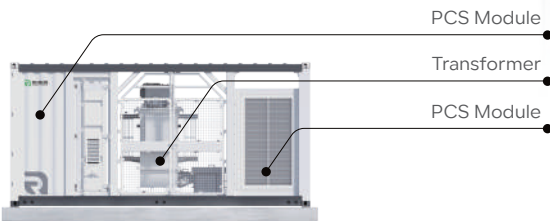
New Generation of Distributed Industrial and Commercial Storage Solutions



Converter Boost System(30ft)



### System Demonstration

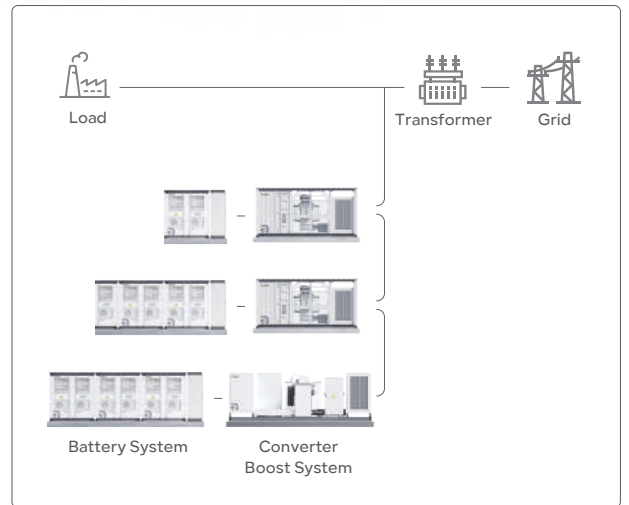


Converter Boost System



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		

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Battery System Total Weight	~15000kg / 33069lb	~30000kg / 66139lb	~45000kg / 99208lb
Converter Boost System Dimensions(W*D*H)	6058*2438*2896mm 238.5*96*114in	6058*2438*2896mm 238.5*96*114in	7600*2200*2553mm 229*86.6*100.5in
Converter Boost System Total Weight	15000kg / 33069lb	15000kg / 33069lb	20000kg / 44092lb
Operation Altitude	3000m / 10000feet(>3000m/10000feet derating)		
Noise 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 Conditions	-20°C to 30°C, Up to 95% RH, non-condensing, State of Energy (SoE): 50% initial		

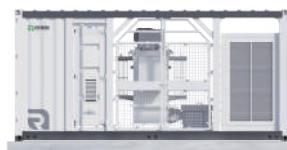
## ■ Packaging & Shipping Details



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



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



Converter Boost System(20ft)  
6058\*2438\*2896mm  
~15000kg



Converter Boost System(30ft)  
7600\*2200\*2553mm  
~20000kg