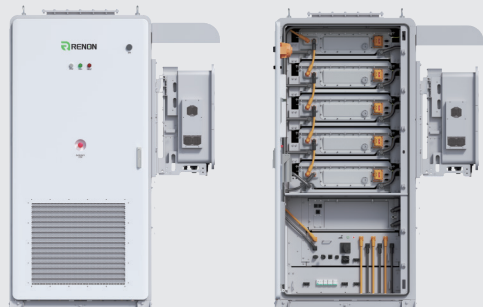


MPack 261AS

261kWh Liquid-cooled Battery

The MPack 261AS stores 261 kWh of electricity, supporting flexible integration with solar, diesel, and grid power. Its modular design allows for easy expansion, while intelligent energy management and remote monitoring optimize system performance. Up to six units can be paralleled for seamless grid transfer within 20 ms.



Product Function



Efficient Energy Storage

Stores 261kWh of electricity for future use, ensuring a stable energy reserve. It supports multiple energy inputs, including solar power, diesel generators, and the grid, providing flexible power integration.



Scalable & Flexible Design

Features a modular design that supports parallel system integration for expanded capacity. Its flexible configuration allows adjustments in power output and storage capacity to meet diverse energy needs.



Smart Multi-Source Inputs

Intelligent ports accept multiple power sources—including grid-tied inverters, generators, and wind turbines—and coordinates them for stable, efficient operation.



Intelligent Energy Management

Utilizes an advanced Energy Management System (EMS) to optimize charging and discharging strategies. Remote monitoring and management capabilities enhance operational efficiency and system performance.



AC and DC-Coupled PV for Flexible Expansion

Supports both AC and DC PV coupling, enabling easy scalability and retrofits without major system rework.



Up to 6 Units AC-Parallel

Parallel up to six systems on the AC side and achieve seamless transfer to/from the grid in approximately 20 ms to keep critical loads online.

Product Features

Up to 200% PV Oversizing

Maximizes solar harvest and utilization, enabling higher yield in low-irradiance hours without major system changes.

High-Efficiency Power Conversion

With superior charge and discharge efficiency, it minimizes energy loss while delivering millisecond-level response times to meet urgent power demands.

160% / 200 ms Off-Grid Overload for Reliable Starts

Delivers short-burst headroom to handle inrush current, ensuring smooth startup of motors and water pumps without nuisance trips.

Enhanced Safety & Reliability

Equipped with multiple protection mechanisms, including safeguards against overcharging, over-discharging, over heating, and short circuits. Fire-resistant materials and flame-retardant design further enhance operational safety.

Application Scenario



COMMUNITY

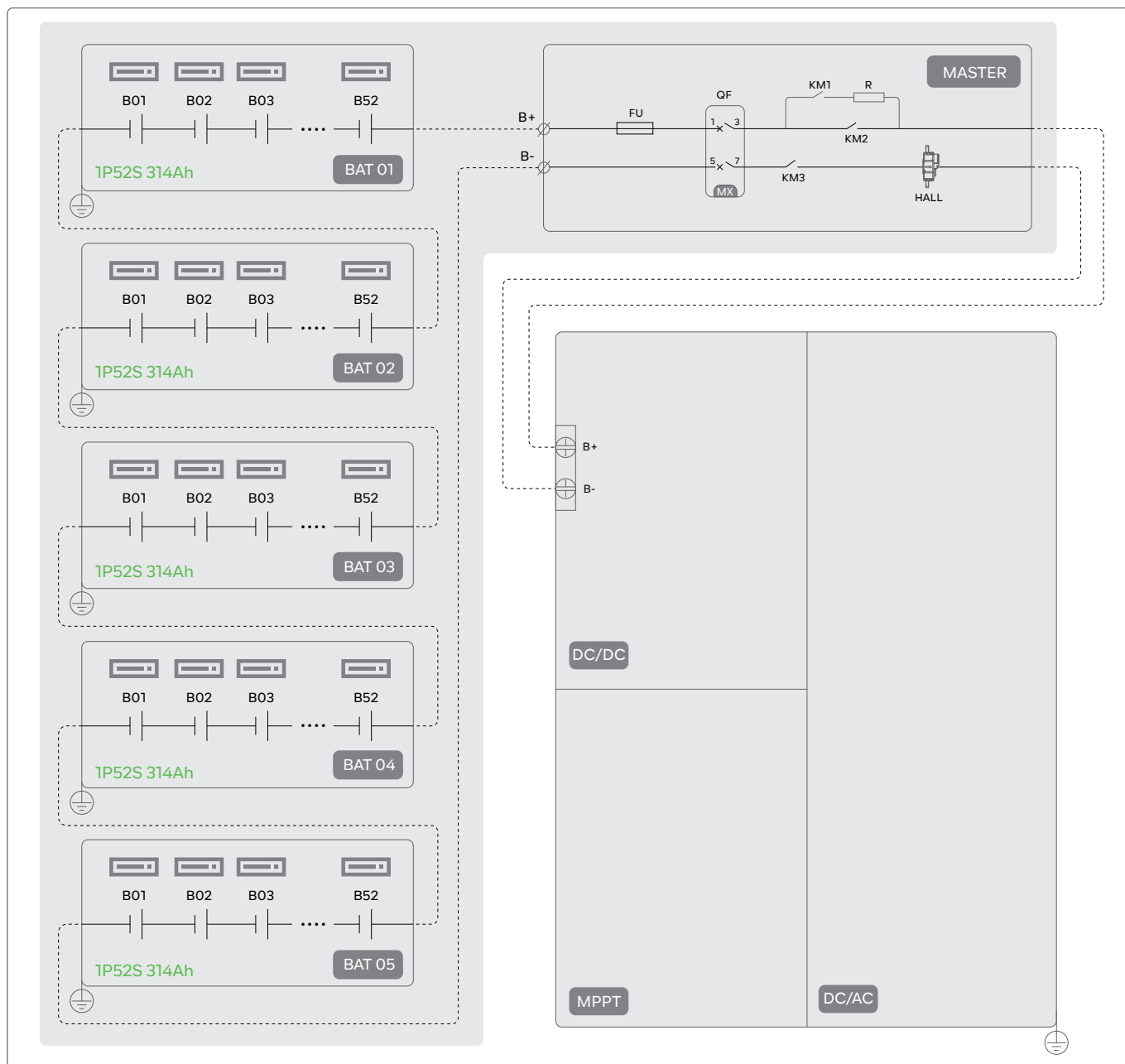


PV POWER PLANT

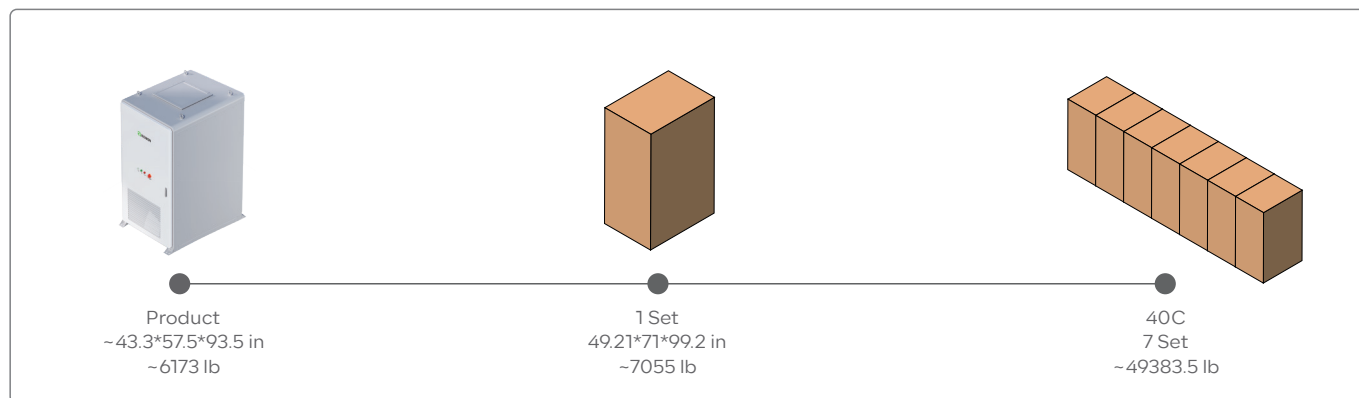


CRYPTOCURRENCY MINING

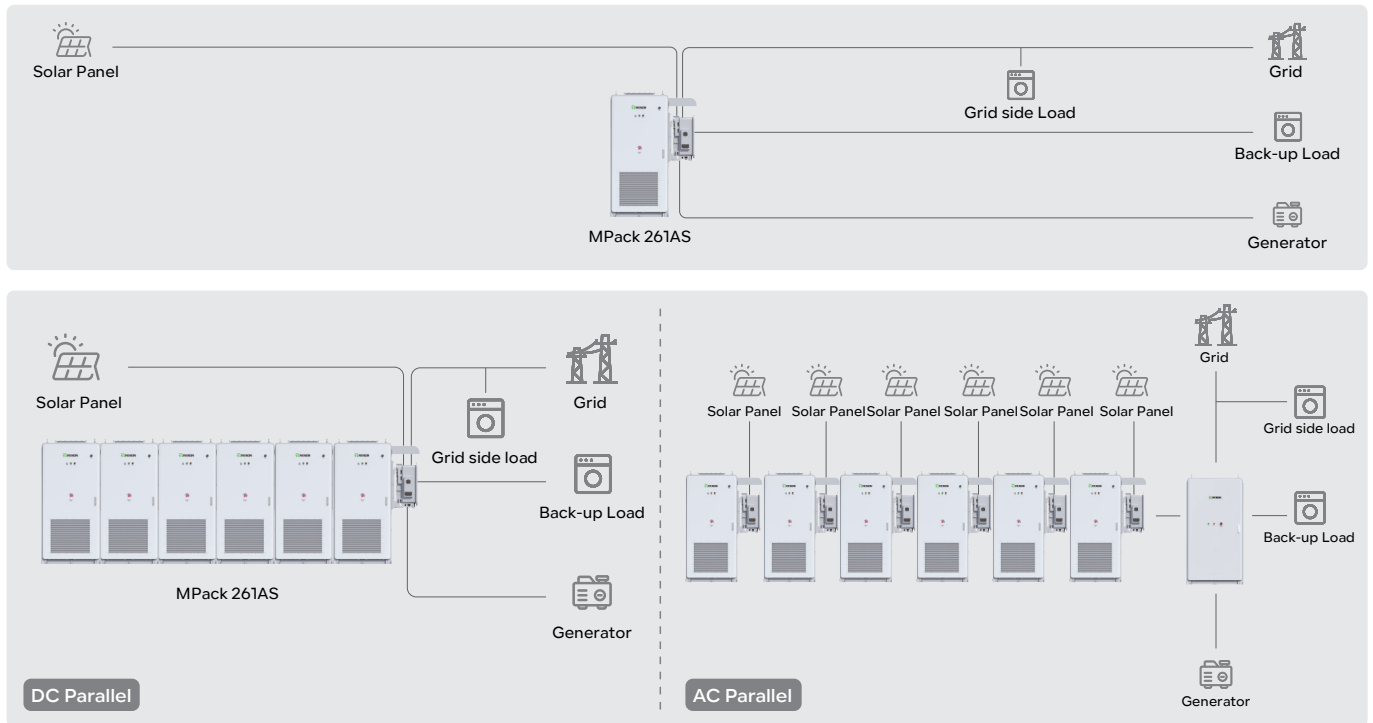
Product Topology



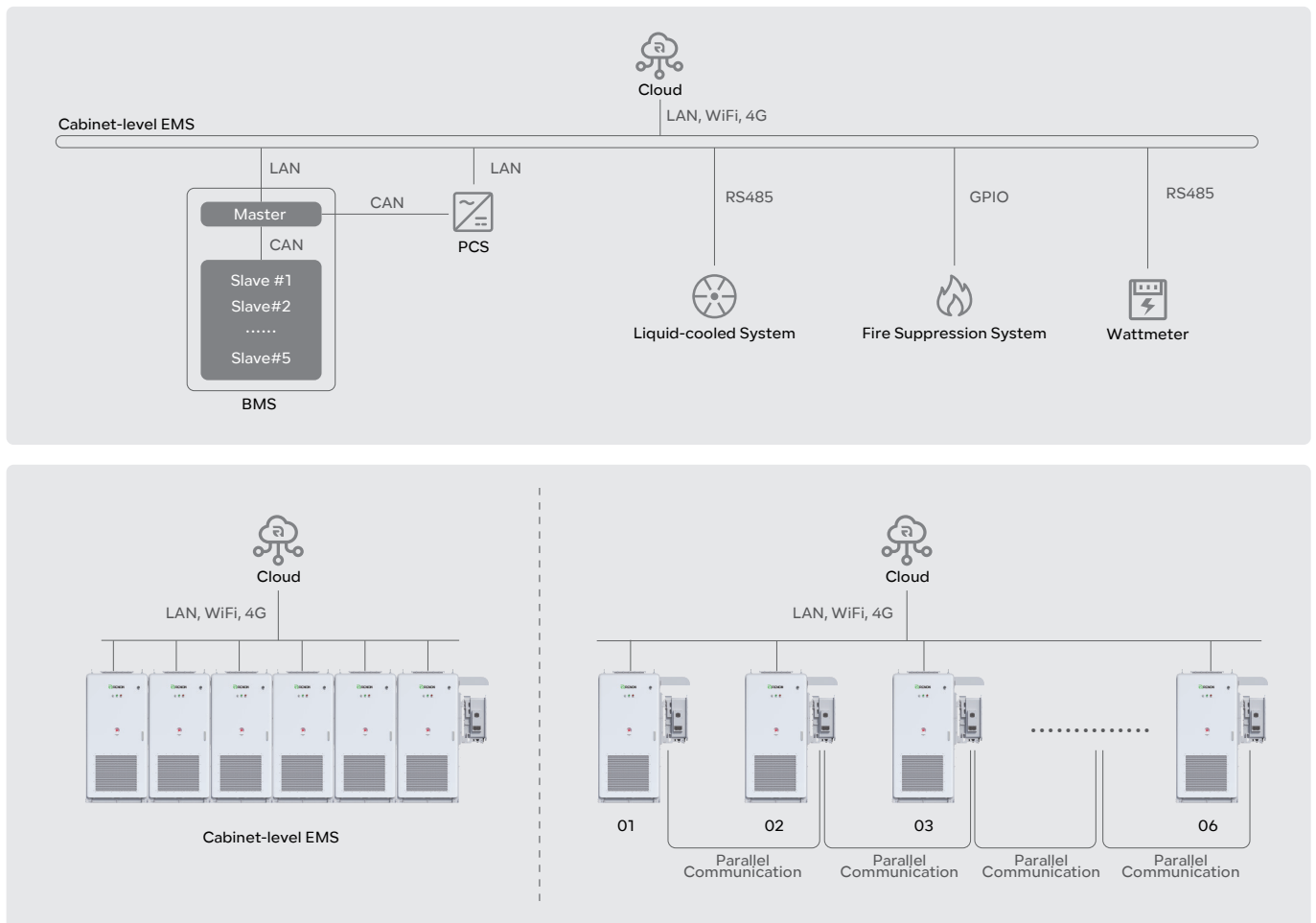
Packaging & Shipping Details



Single / Max. Parallel System Layout



Energy Management System(EMS) Structure



Product Parameter

Battery Energy Storage	
Cell Type	LFP 3.2V/314Ah
Module configuration	1P52S
System Combination (Modules)	5 in series
Capacity (kWh)	261.2
Nominal Voltage (V)	832
Operation Voltage Range (VDC)	702~936
Discharge Depth	90% DoD
Thermal Management Mode	Liquid-cooled
Thermal Control Management	Aerosol Extinguishing

PV Input

Max. Power of PV Array (kW)	250
Max. Voltage (V)	1000
Rated Voltage (V)	600
Start-up Voltage (V)	180
MPPT Voltage Range (V)	150 ~ 950
Max. Input Current (A)	42*10
Max. Short Circuit Current (A)	60*10
MPPT Number / Max. Input Strings Number	10/20

AC Output (Grid Side)

Rated Output Power (kW)	125
Max. Apparent Output Power (kVA)	125
Rated Grid Voltage	3P/N/PE, 480V
Rated Grid Frequency (Hz)	50/60
Rated Grid Output Current (A)	150
Power Factor	0.99/-0.8~0.8
THDi	≤3%

AC Output (Back-up)

Rated Output Power (kW)	125
Max. Apparent Output Power	1.2 times of rated power, 100s 1.4 times of rated power, 10s 1.6 times of rated power, 200ms
Back-up Switch Time (Ms)	< 10
Rated Output Voltage	3/N/PE, 480V
Rated Frequency (Hz)	50/60
Thdv (@linear Load)	< 2%

AC Input (Generator)

Max. Input Power (kW)	125
Rated Input Current (A)	150
Rated Input Voltage	3/N/PE, 480V
Rated Input Frequency (Hz)	50/60

System Characteristic

Communication Interface	CAN, RS485, Ethernet
Warranty	5 years free, paid from the 6th to the 15th year
Certifications	ANSI/CAN/UL1973:2022 ANSI/CAN/UL9540:2023, UL9540A:2025 UL1741:2012 Ed.3+R:19May2023 UL1741:2021 Ed.3(Supplement SB) CSA C22.2#1071:2016 Ed.4+U1 IEEE 1547:2018, IEEE 1547:2020

General Parameters

Battery Model	R-MPS261125A1-US
Dimensions - W*D*H (in)	~43.3*57.5*93.5 (±0.5)
Total Weight (lb)	~6173 (±5%)
Max. Count of Grid-tie & islanding transitions	6
Grid-connected & Off-grid Switching Time	≤20ms
Operation Altitude	≤4000m/13122ft (2000m/6561ft derating)
Noise Level @1m	<75 dB(A)
IP Rating	IP54
Operating Temperature (°C/°F)	-25~55°C/-13~131°F
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