

Liquid-Cooling LFP BESS

KS-261AS

261kWh



ALL-IN-ONE ESS

- 261.2kWh LFP liquid-cooled ESS with hybrid inverter.
- Intelligent coordination of battery, PV, load and grid.



200% PV OVERSIZING

- 125kW AC output supports up to 250kW PV input.
- 10 MPPTs / 20 strings maximize solar utilization.



FAST BACKUP RESPONSE

- 125kW backup output with 1.6× overload capability.
- <10ms off-grid switching for critical loads.



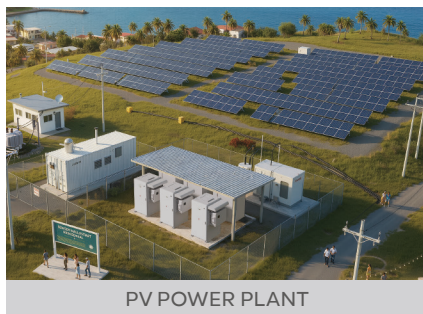
FLEXIBLE PV MODES

- Supports Self-use, Sell-first and Off-grid modes.
- Adaptable for different C&I energy applications.

Application Scenario



COMMUNITY

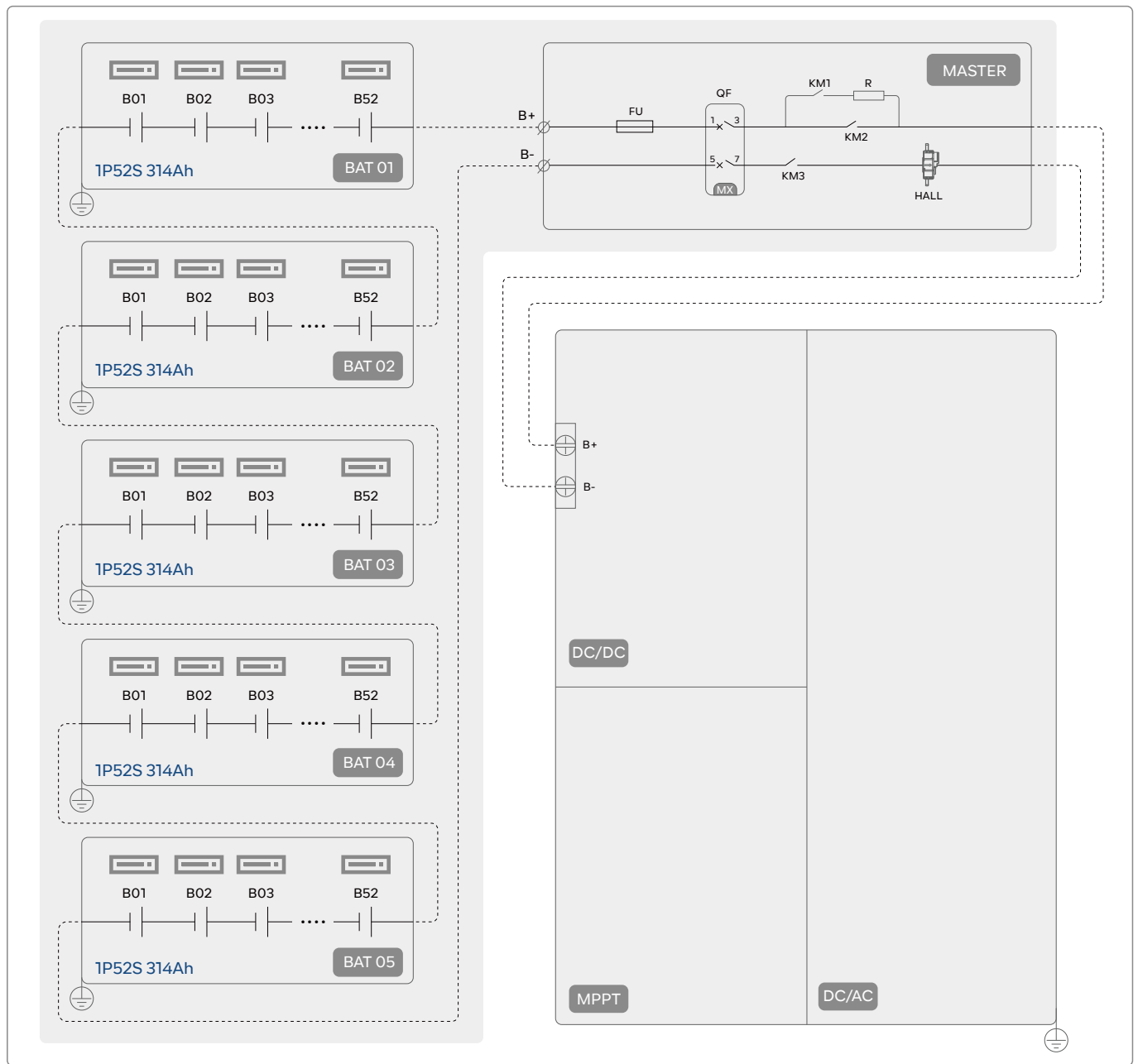


PV POWER PLANT

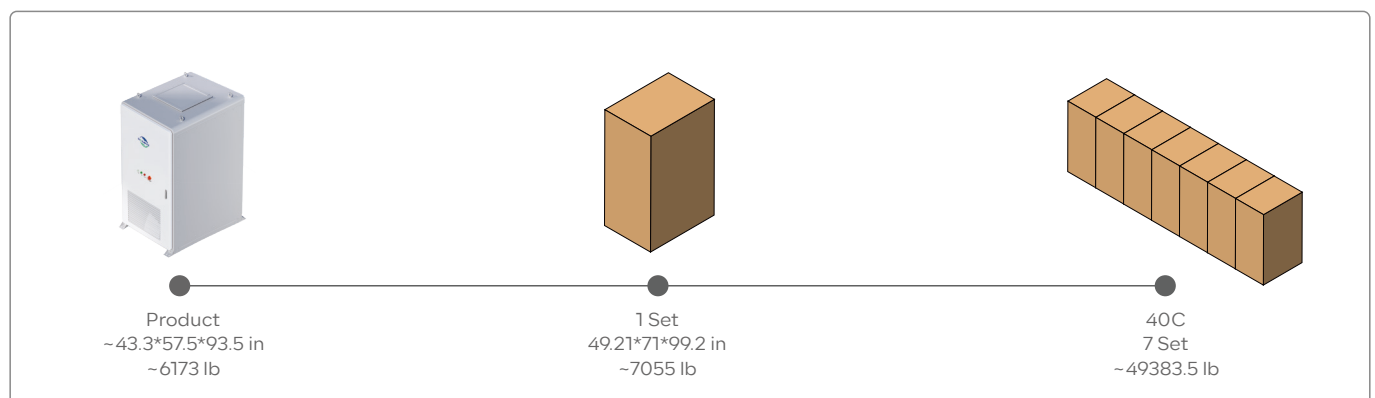


CRYPTOCURRENCY MINING

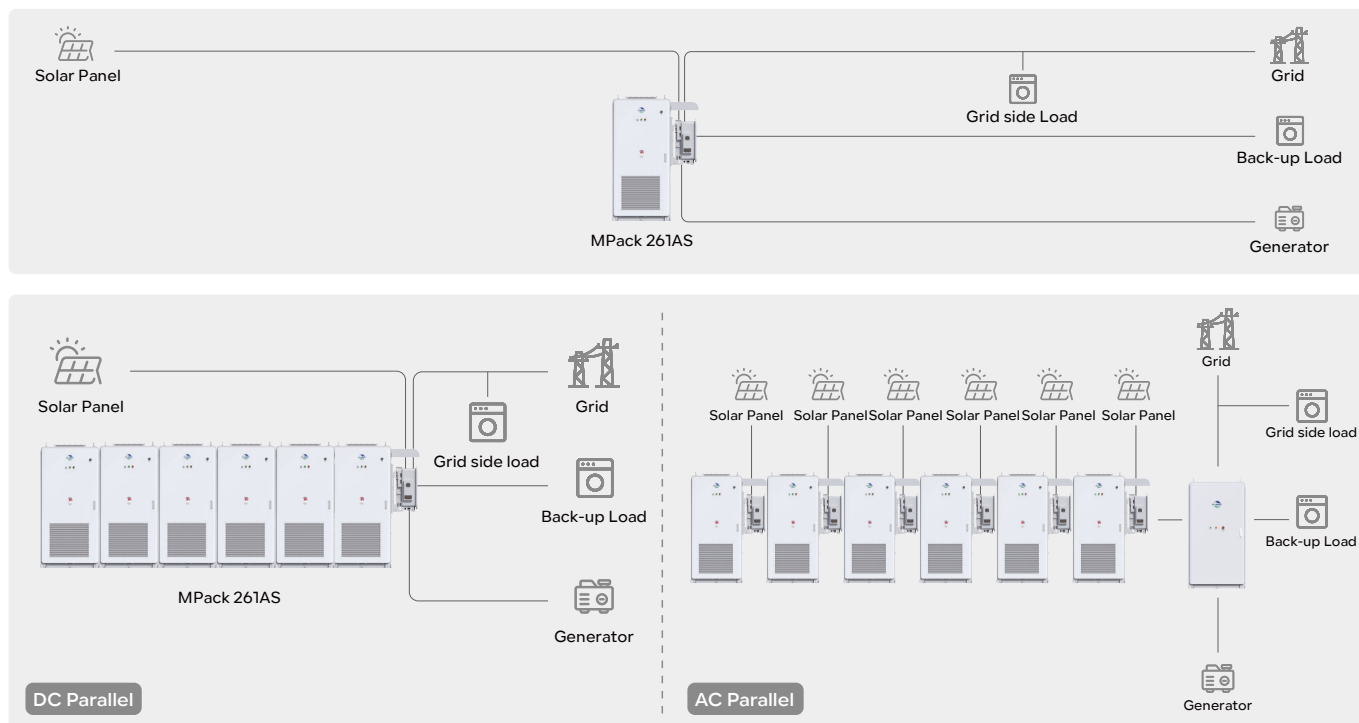
● Product Topology



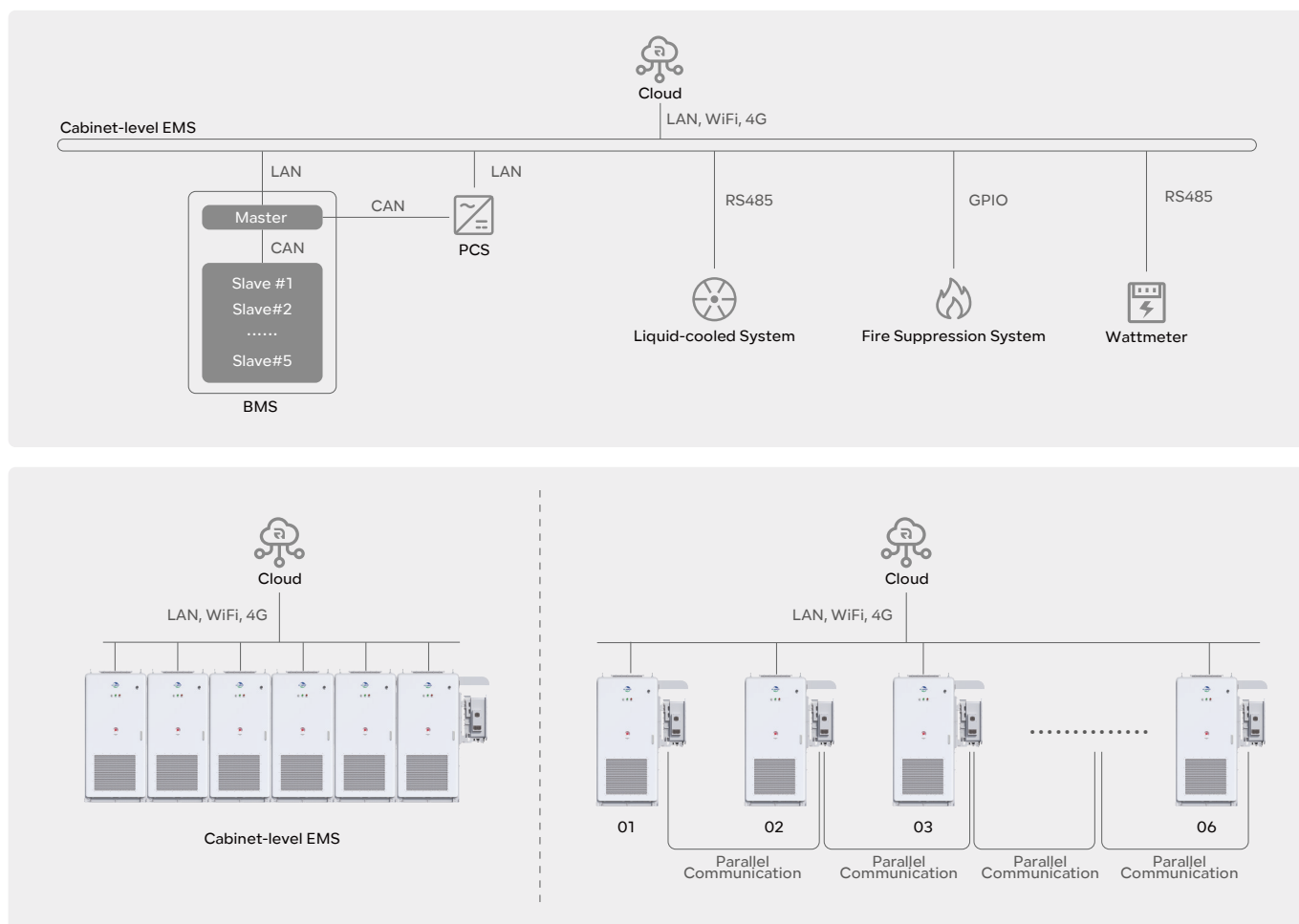
● Packaging & Shipping Details



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
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	K-KSS261125A1-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