Liquid-Cooling LFP BESS

KS-233A

233kWh

HIGH PERFORMANCE

- >8000 life cycles.[1]
- 233kWh capacity, 125 kW AC output power.

SAFE AND RELIABLE

- LiFePO4 cells, battery monitoring, fire prevention.
- Certified UL, IEC, CE, UN38.3 for compliance.

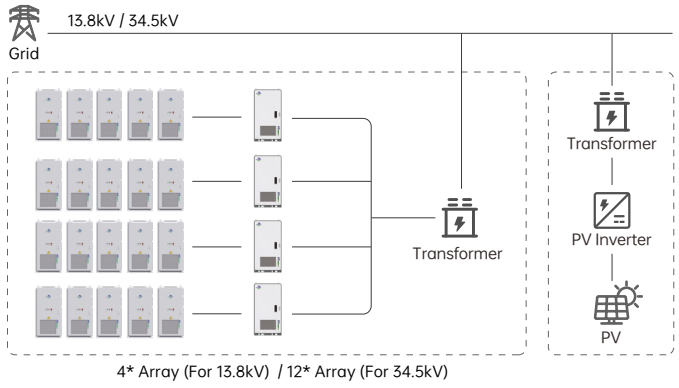
SMART O&M

- Supports remote diagnostics and O&M.

FLEXIBLE APPLICATION

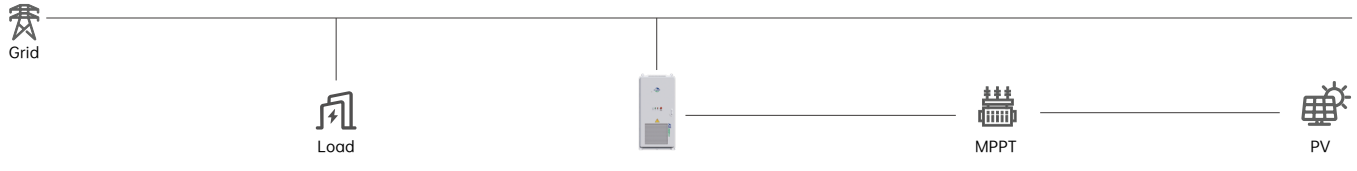
- Uninterrupted power with grid/off-grid flexibility.

Max. Parallel/Single System Layout



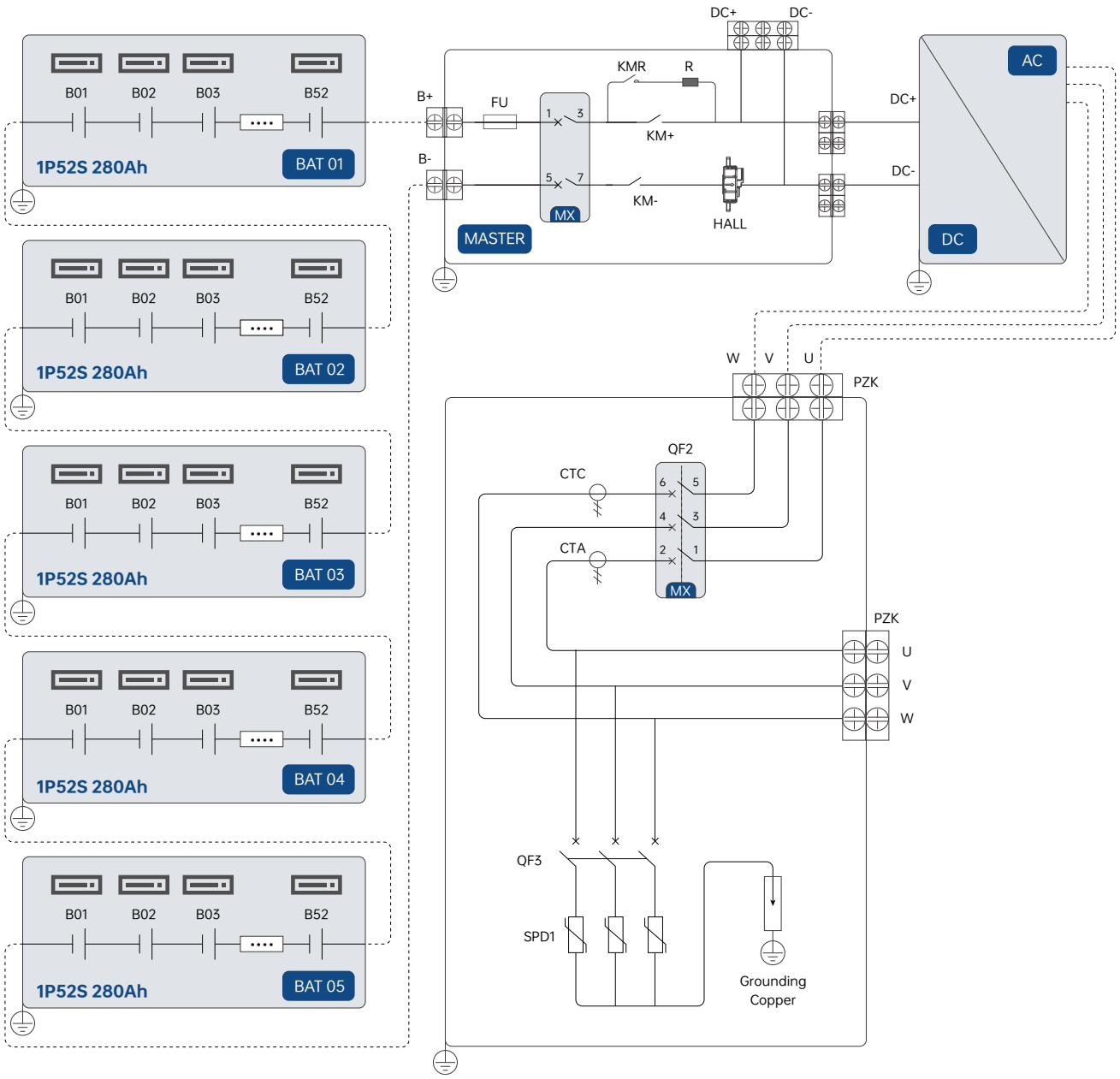
Grid Voltage	13.8kV
Number of ESS	80(4*20)
Number of Array	4
Total Capacity(MWh)	18.64(4*20*233kWh)

Grid Voltage	34.5kV
Number of ESS	240(12*20)
Number of Array	12
Total Capacity(MWh)	55.92(12*20*233kWh)



[1] Tested cycle life under standard test conditions: 25°C, 0.5C, 80% DOD.

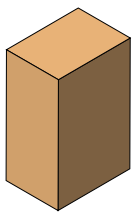
Product Topology(For 480V System)



Packaging & Shipping Details

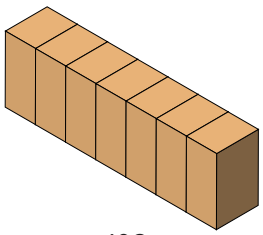
Product

~43*57.3*93.4in
~5952.5lb



1Set

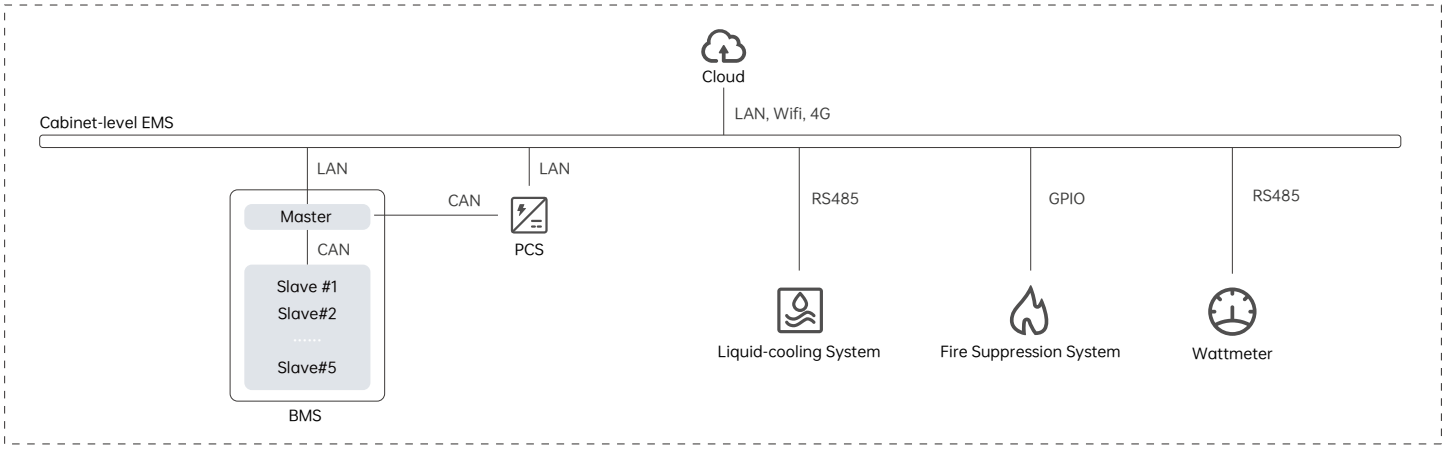
~49.21*71*99.2 in
~7055 lb

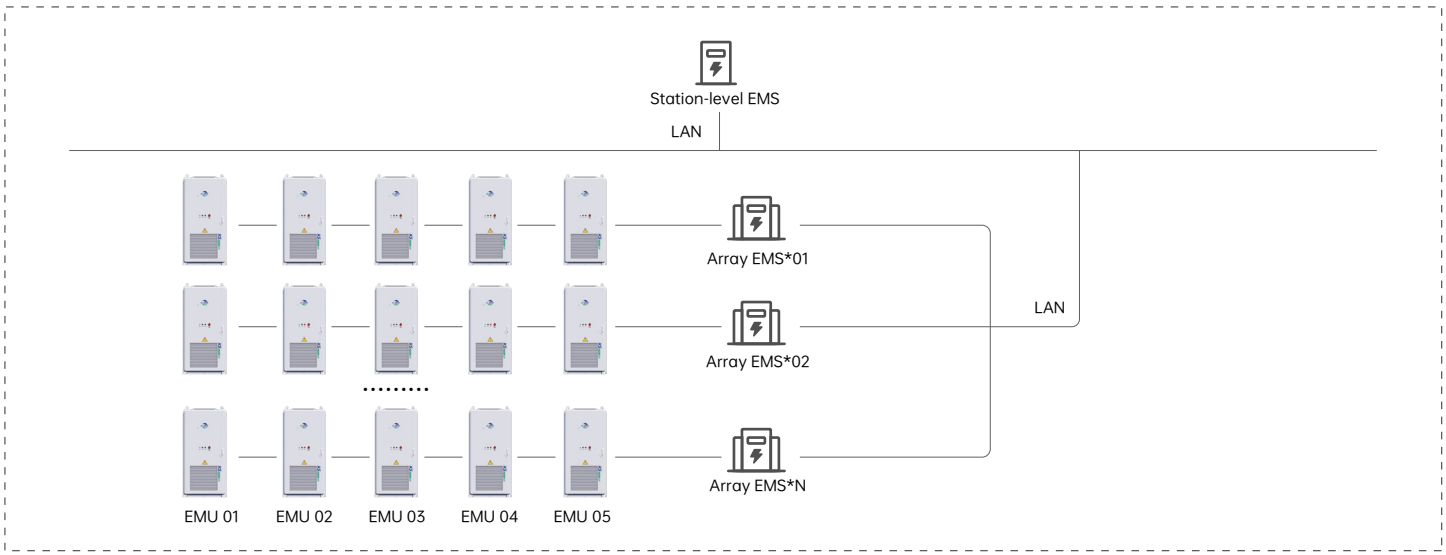


40C

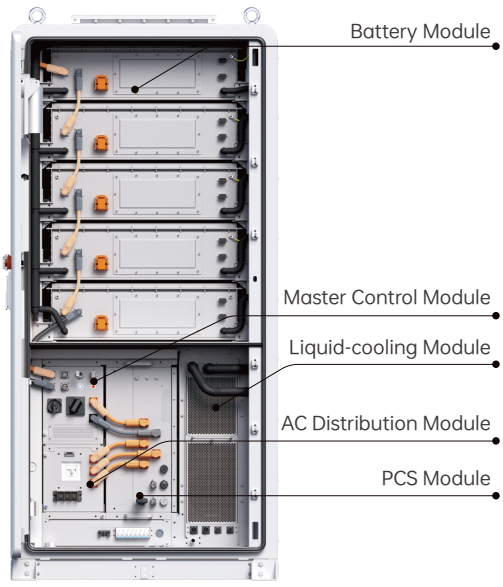
7 Set
~49383.5 lb

Energy Management System(EMS) Structure





System Demonstration



Product Specifications

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%

DC Input/Output

Max. Power (kW)	250
Voltage Range (V)	761~923
Max. Current (A)	320

System Characteristic

Communication Interface	CAN, RS485, Wi-Fi, LTE
Warranty	5 Years
Certifications	ANSI/CAN/UL 1973:2022, ANSI/CAN/UL 9540:2020, UL 9540A:2019, UL 1741:2012 Ed.3+R:19May2023 UL 1741:2021 Ed.3(Supplement SB), CSA C22.2#107.1:2016 Ed.4+U1, IEEE 1547:2018,IEEE 1547.1:2020, IEC 62619/TUV MARK: 2025, EMC/RF:2025, CE-LVD/62477:2025, CEC

General Parameters

Battery Model	K-KS233125A0-US
Dimensions - W*D*H (in)	43*57.3*93.4
Total Weight (lb)	5798(±10%)
Operation Altitude	≤4000m/13122ft(2000m/6561ft derating)
Noise Level @1m	<75 dB(A)
IP Rating	IP54
Operating Temperature(°C/°F)	-20°C~55°C, derating above 40°C
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