

## 233kWh Liquid-Cooling Battery

# KS-233A



### HIGH PERFORMANCE

- High-efficiency liquid cooling.



### FLEXIBLE APPLICATION

- Efficient BMS technology.



### SAFE AND RELIABLE

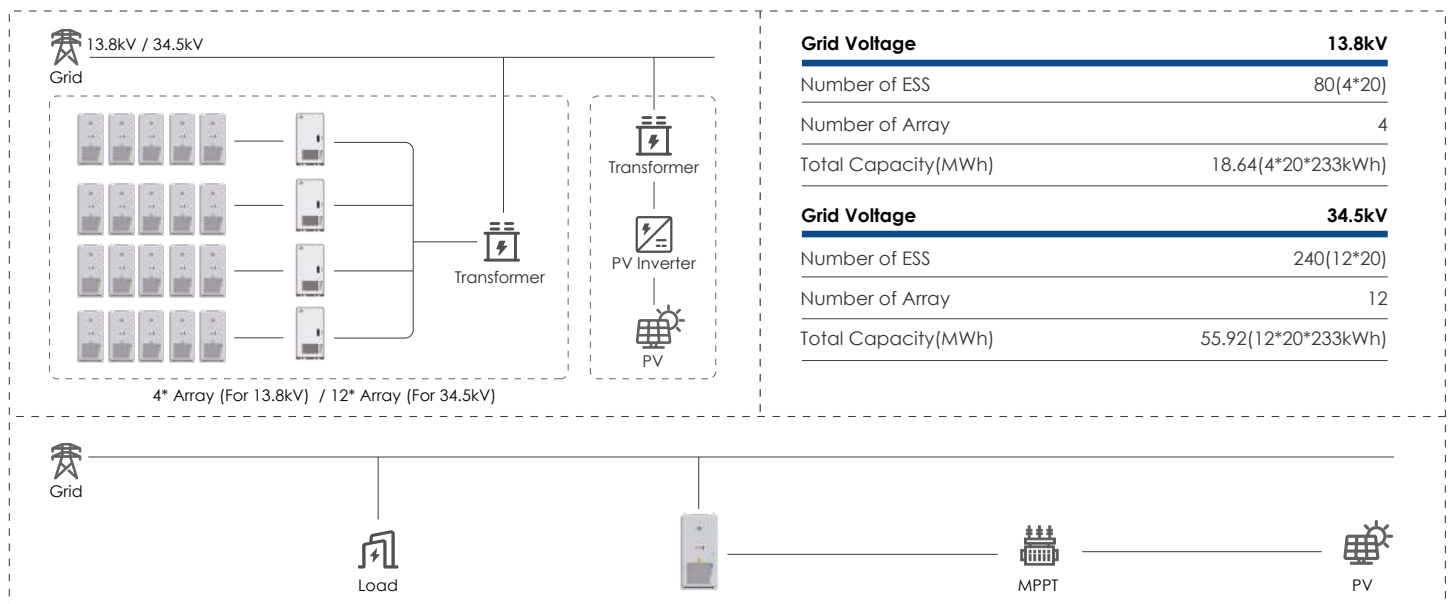
- Battery monitoring, fire prevention, a top venting design.
- Ai management.



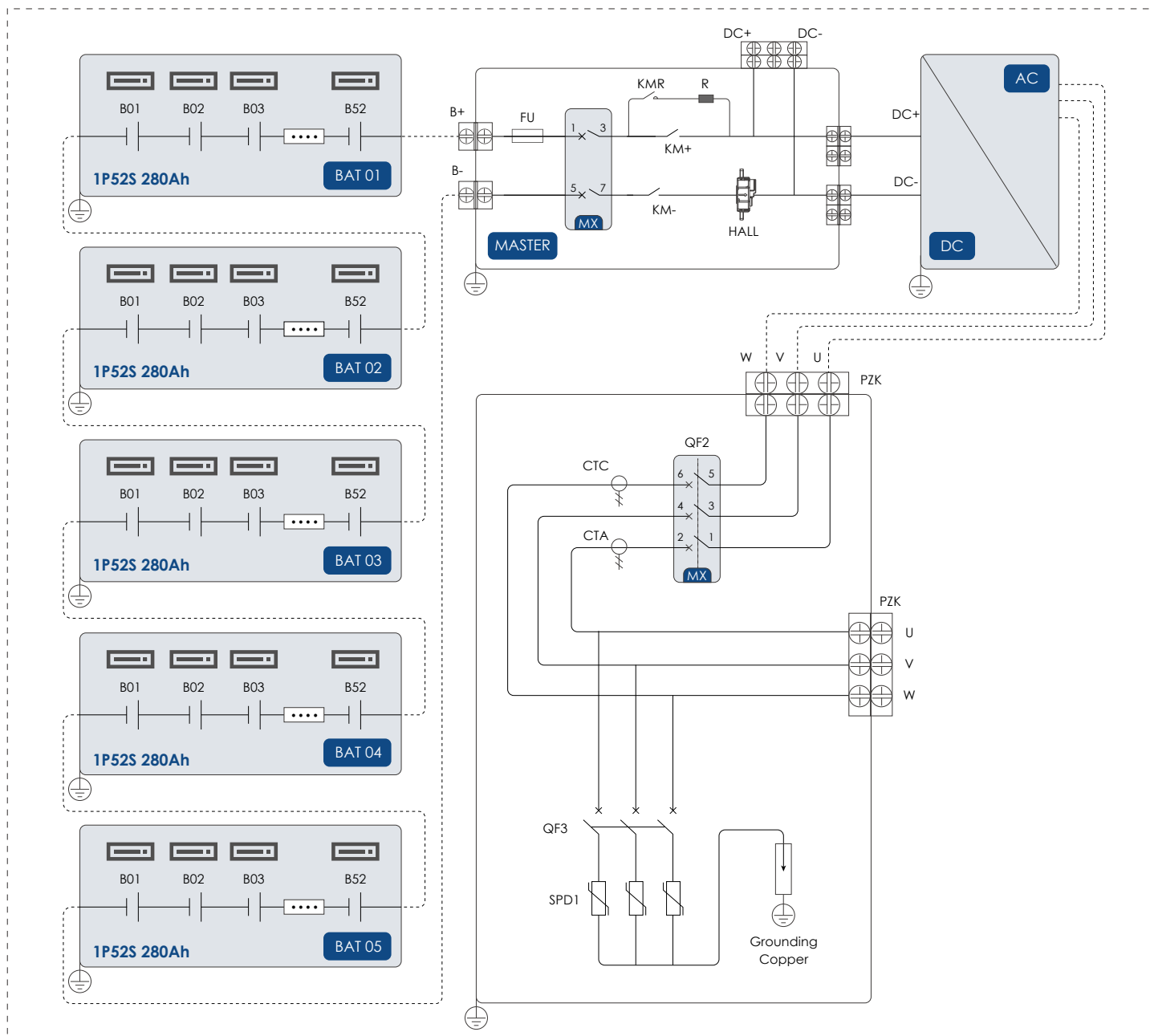
### EASY INSTALLATION

- Modular design for ease of expansion.

## ● Max. Parallel/Single System Layout



### ● Product Topology(For 480V System)

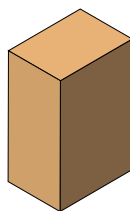


### ● Packaging & Shipping Details



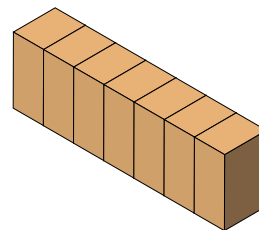
Product

~43\*57.3\*93.4in  
~5952.5lb



**1Set**

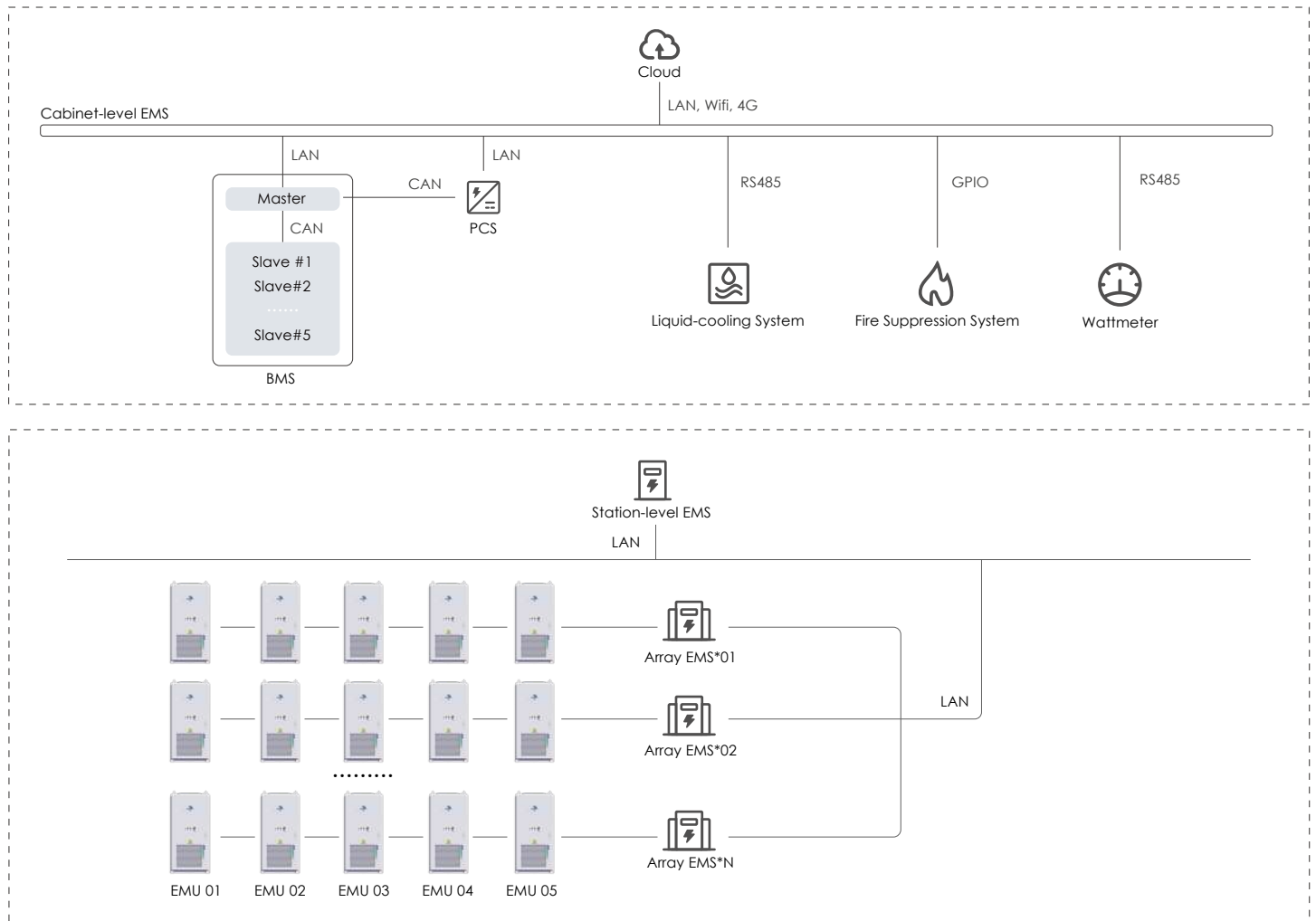
49.21\*71\*99.2 in  
~7055 lb



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<br>UL 1741:2021 Ed.3(Supplement SB), CSA C22.2#107.1:2016 Ed.4+U1, IEEE 1547:2018,IEEE 1547.1:2020 |

### 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) | -20~55/-4~131                                                                        |
| 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 |