

60kWh Air-Cooling Battery

KS-60A



HIGH PERFORMANCE

- >8000 life cycles.



SAFE AND RELIABLE

- IP55 design, minimize external environmental impact.



FLEXIBLE APPLICATION

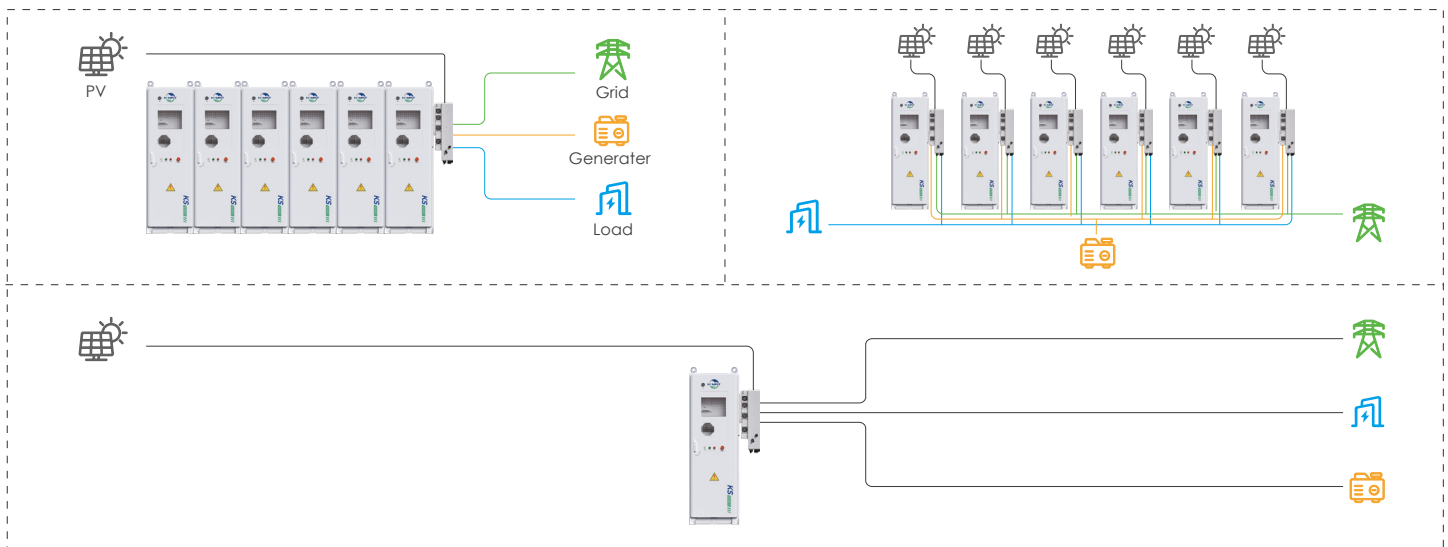
- Modular design for ease of expansion.
- Off-grid ops.



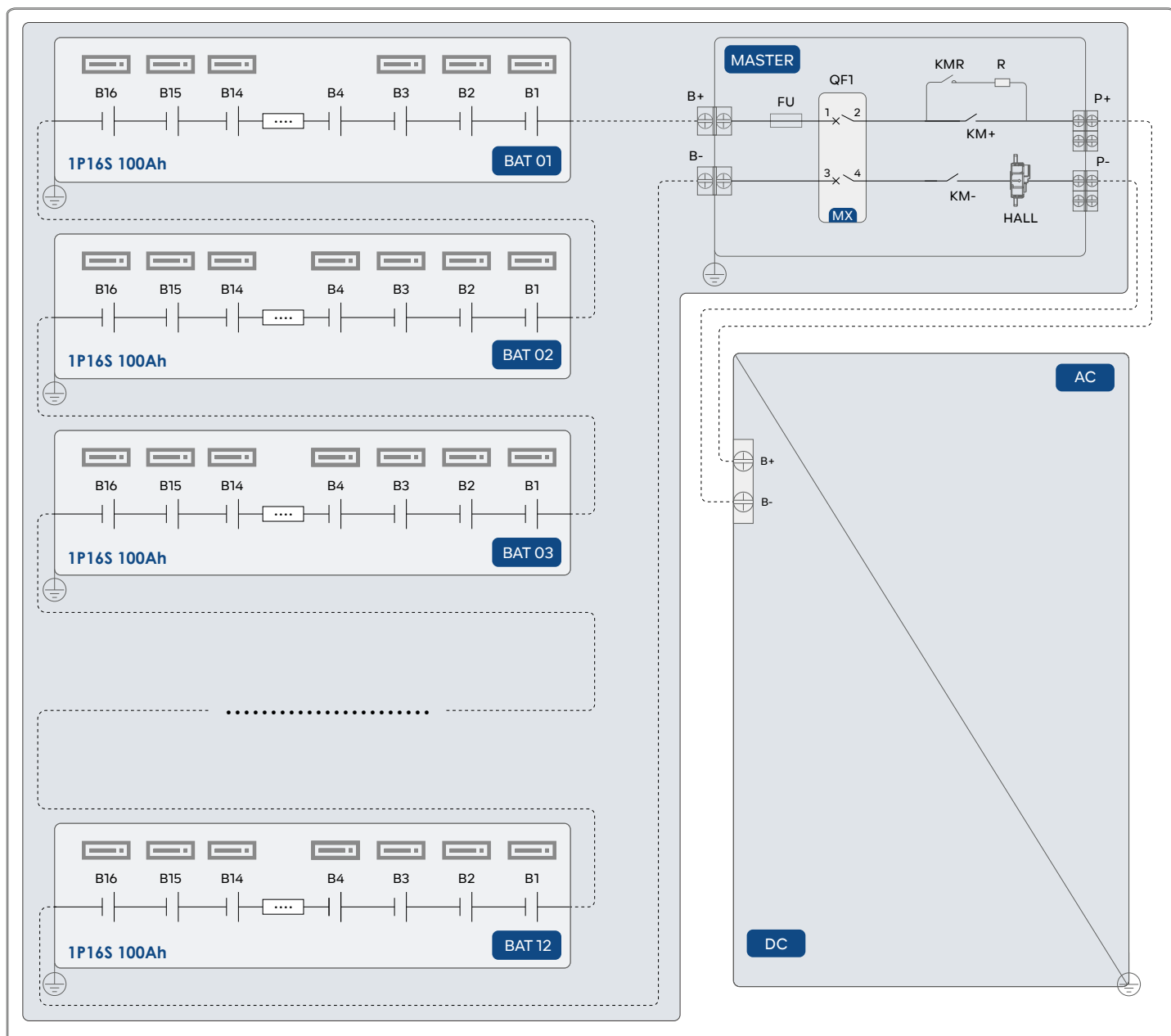
SMART ENERGY MANAGEMENT

- Efficient bms technology.
- Remote monitoring capabilities.

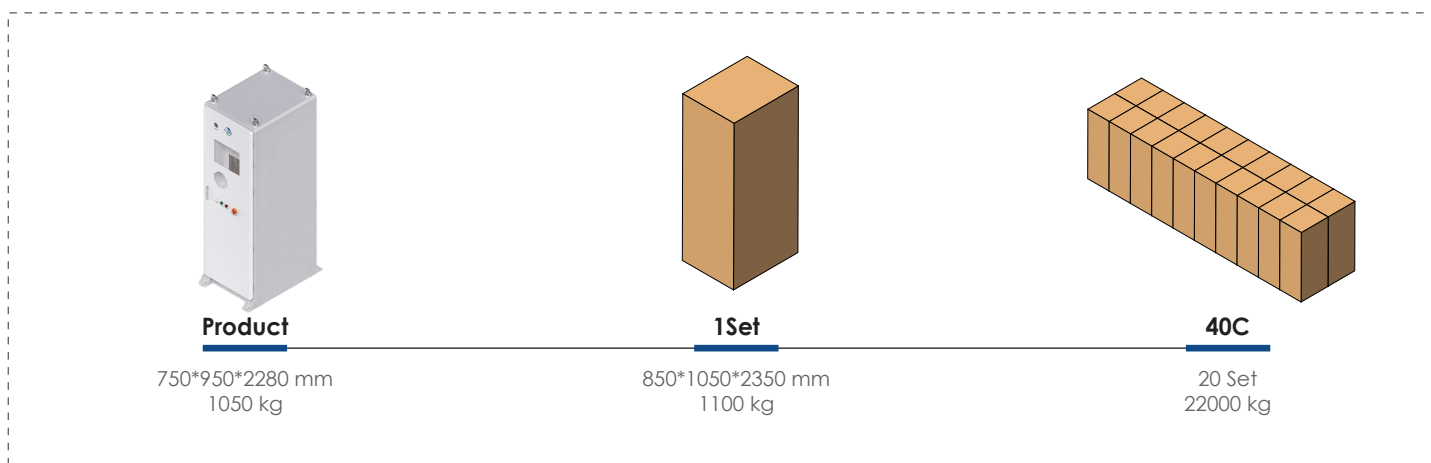
● Max. Parallel/Single System Layout



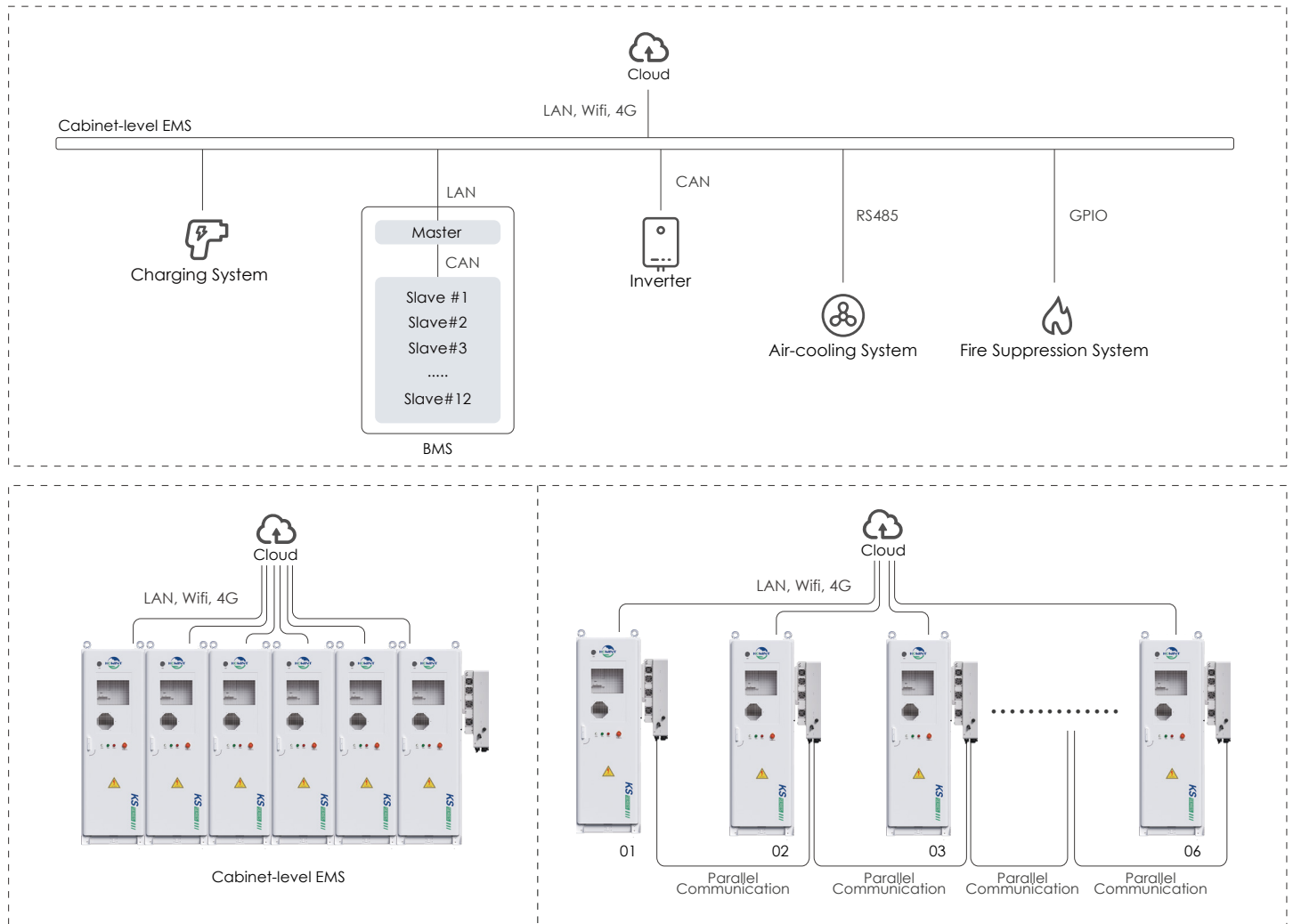
● Product Topology



● Packaging & Shipping Details



● Energy Management System(EMS) Structure



● System Demonstration



● Product Specifications (For 480V Application)

Battery Energy Storage

Cell Chemistry	LiFePO4
Module Energy (kwh)	5.12
Module Nominal Voltage (V)	51.2
Module Capacity (Ah)	100
Battery Module Combination	12S1P
System Nominal Voltage (V)	614.4
System Operating Voltage (V)	562.5~681.6
System Energy (kWh)	61.44
Charge/Discharge Current (A)	95

PV Input

Max. Input Power (kW)	96
Max. Input Voltage (V)	1000
Start-up Voltage (V)	180
Rated Voltage (V)	600
MPPT Voltage Range (V)	150-850
Max. Short Circuit Current per MPPT (A)	60
Number of MPP Trackers	4
Number of PV Strings per MPPT	8
Max. Current per MPPT (A)	40

Charging System(Optional)

Charging Type	Charging Mode 3 Case B & Case C
Outlet options	AC Type 2 (IEC 62196-2)
Input/Output Current Rating (A)	32, three phase
Input/Output Power Rating (kW)	23@415Vac
Input/output voltage (VAC)	380~415
Input Frequency (Hz)	50/60
Cable Length	TT, TN system
Distribution Systems	5.0 m, Optional: 7.5 m
Connector Type	3P + N + PE
Certifications	IEC/EN 61851-1, IEC 61851-21-2 IEC 62196-1, IEC 62196-2, IEC 62109

AC Output(On-Grid)

Rated Output Power (kW)	50
Max. Output Power (kVA)	50
Rated Output Current (A)	76
Max. Input Power from Grid (kW)	50
Max. Input Current from Grid (A)	76
Rated Grid Voltage	3/N/PE, 230V/400 Vac
Rated Grid Frequency (Hz)	50/60
Max. AC Passthrough Current (A)	152
THDi (@Rated Power)	<3%
Power Factor	0.8 leading- 0.8 lagging

AC Output(On-Grid)

Rated Output Power (kW)	50
Max. Apparent Output Power	1.6 times/2s
Rated Output Current (A)	76
Switch Time	<10ms
Rated Voltage	3/N/PE, 230V/400Vac
Rated Frequency (Hz)	50/60
THDv (@linear load)	<2%

General Parameters

Product Mode	K-KS061060A1-EU
Dimension -W*D*H(mm/in)	750*950*2280/29.5*374*89.7
Weight (kg/lb)	-1050/-2314.8
Operating Temperature (°C/°F)	-30~50/-22~122
Communication Interface	CAN, RS485, Wi-Fi, LTE
Humidity(RH)	5%~85%, non-condensation
Altitude	≤4000m/13122ft(2000m/6561ft derating)
IP Rating	IP55
Storage Temperature (°C/°F)	-20~35/-4~95
Recommend Depth of Discharge	90%
Cycle Life	>8000 cycles
Warranty	10 years
Certification	EC/EN62619:2022, IEC/EN62477-1:2012+A11+A1+A12 IEC/EN61000-4-2:2019, IEC/EN61000-4-2:2019 EN301908-1 V15.2.1:2013, EN301908-13 V13.2.1:2022 EN301489-1:2019 V2.2.3:2019, EN301489-52 V1.2.1:2021