

All-In-One LFP BESS with 30/50kW Inverter

KS-60A

61.44kWh



HIGH PERFORMANCE

- >8000 life cycles. [1]
- 61.44Kwh capacity, 50 kW power output.



SAFE AND RELIABLE

- IP55 design, minimize external environmental impact.
- Advanced HVAC cooling and fire protection system.



SMART O&M

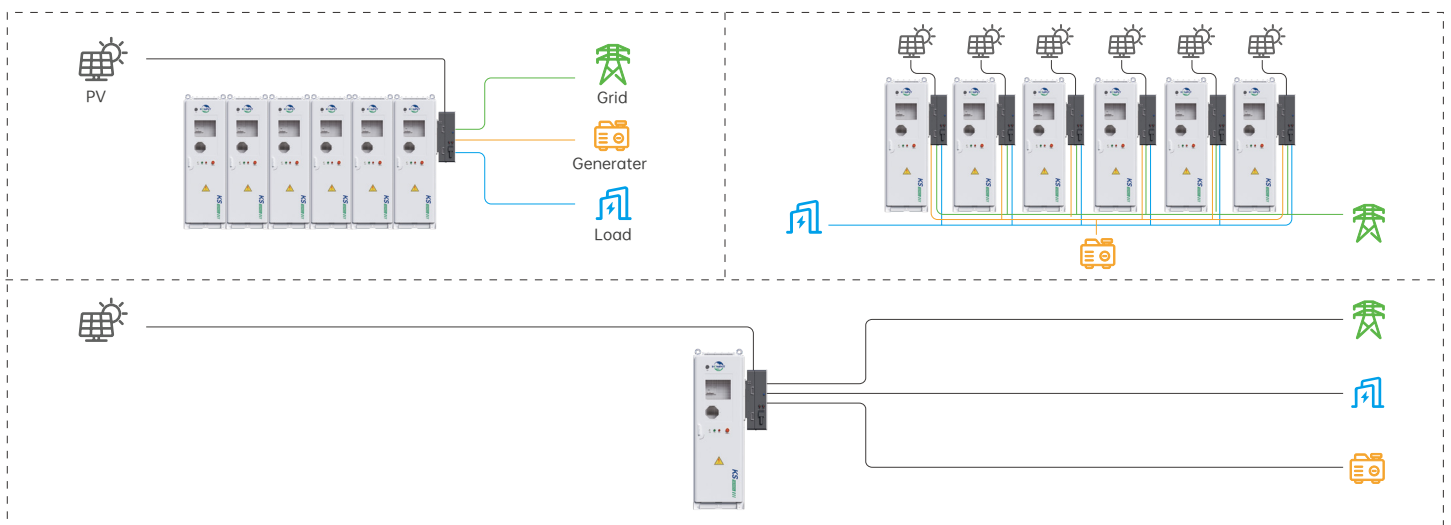
- Supports remote diagnostics and O&M.
- Modular design enables quick service and replacement.



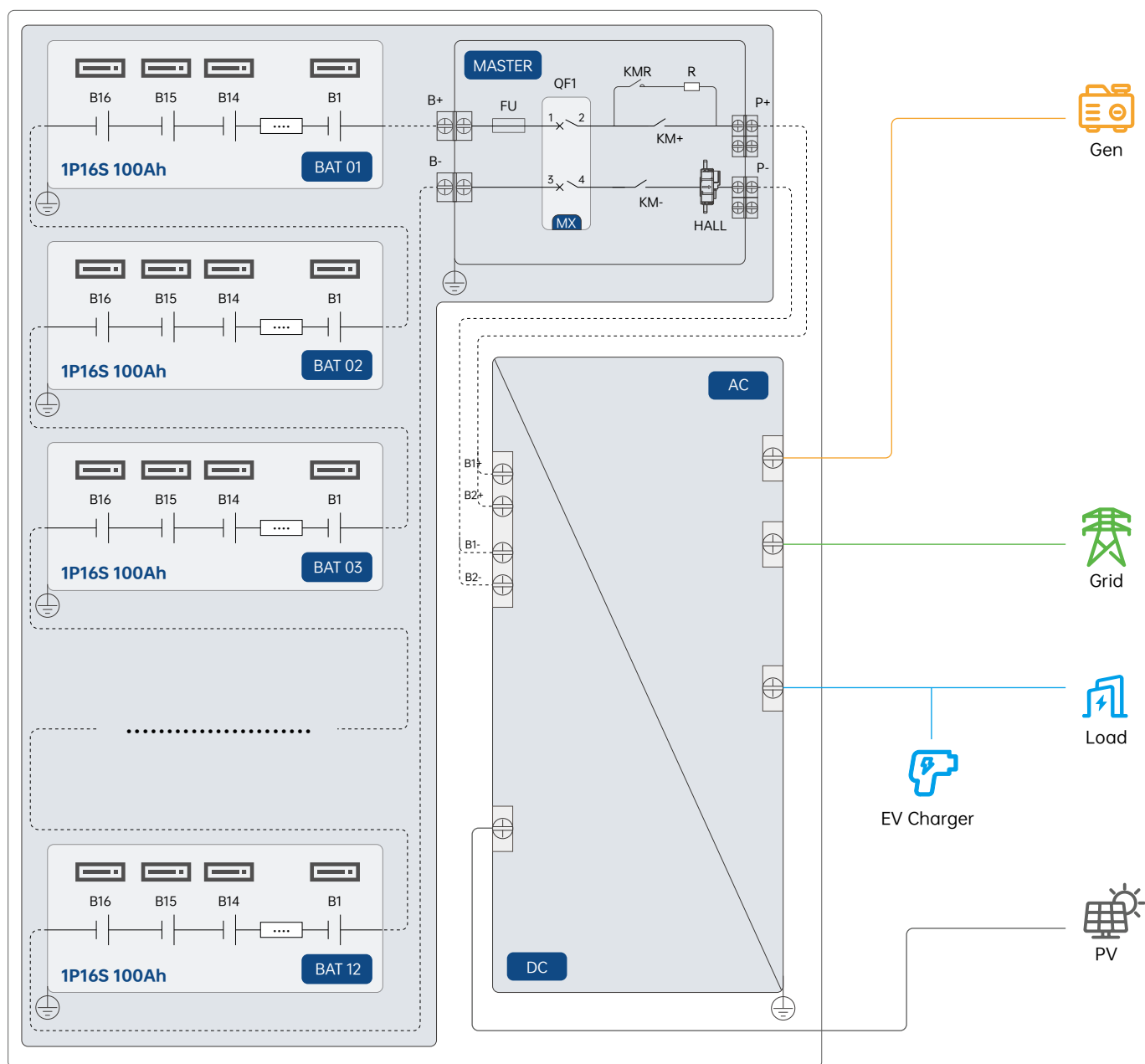
FLEXIBLE APPLICATION

- Scalable from small C&I projects to large microgrids.
- Uninterrupted power with grid/off-grid flexibility.

Max. Parallel/Single System Layout



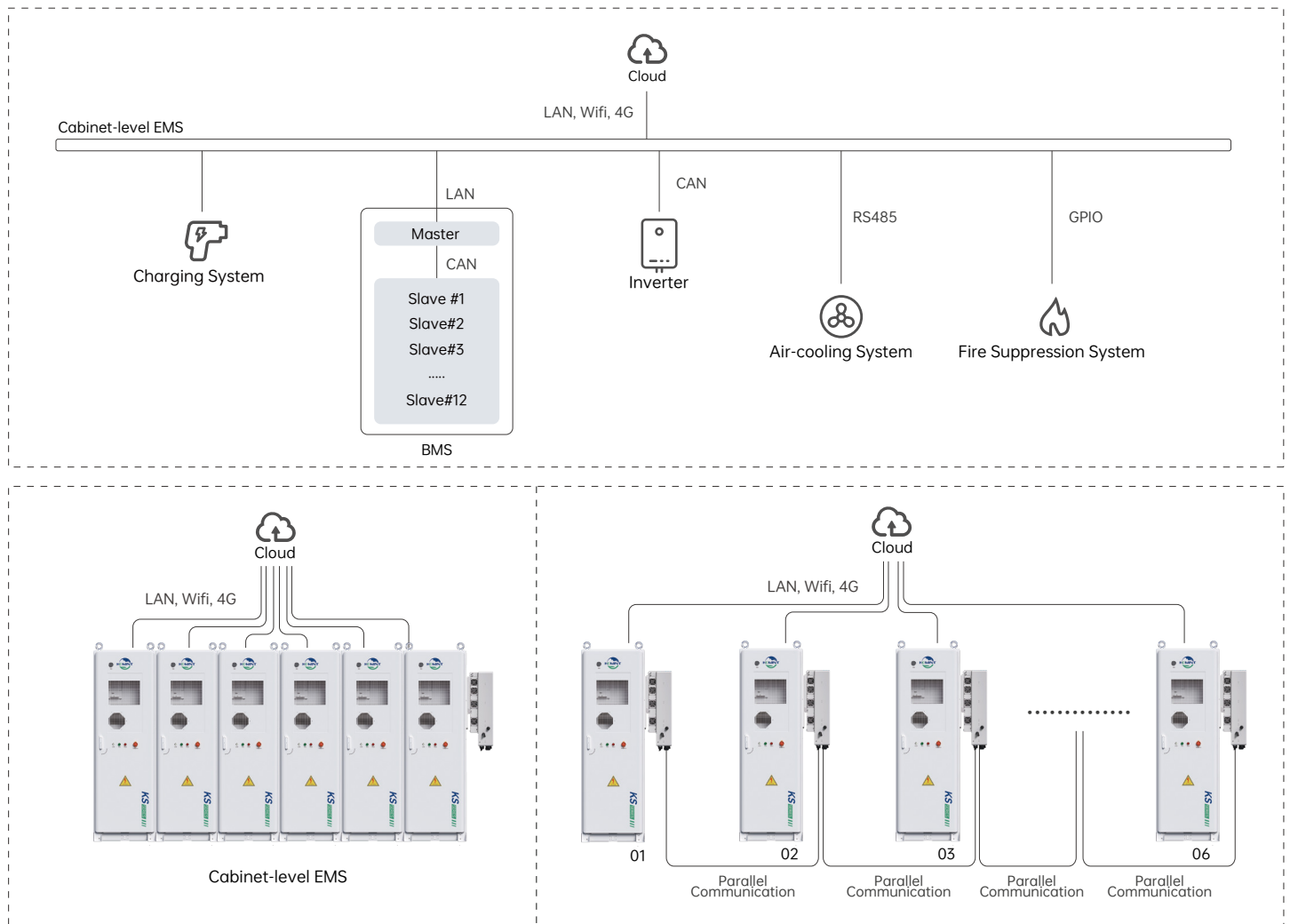
Product Topology



Packaging & Shipping Details

Product	1Set	40C
~749.3*950.0* 278.4 mm ~1,049.93 kg	~849.88*1050.04*2350.01 mm ~1,100.05 kg	20 Set ~22,001.73 kg

● Energy Management System(EMS) Structure



● System Demonstration



● Product Specifications

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 Curent (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 Curent per MPPT (A)	60
Number of MPP Trackers	4
Number of PV Strings per MPPT	8
Max.Curent 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/ouput voltage (VAC)	380~415
Input Frequency (Hz)	50/60
Cable Length	TT, TN system
Distribution Systems	5.0 m, Optional: 7.5 m
ConnectorType	3P + N + PE
Certifications	IEC/EN 61851-1,IEC 61851-21-2 IEC 62196-1,IEC 62196-2,IEC62109

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*2280/29.53*37.40*89.76
Weight (kg/lb)	-1050/2314.85
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 Dischargel	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