

All-In-One LFP BESS with 30/60kW 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

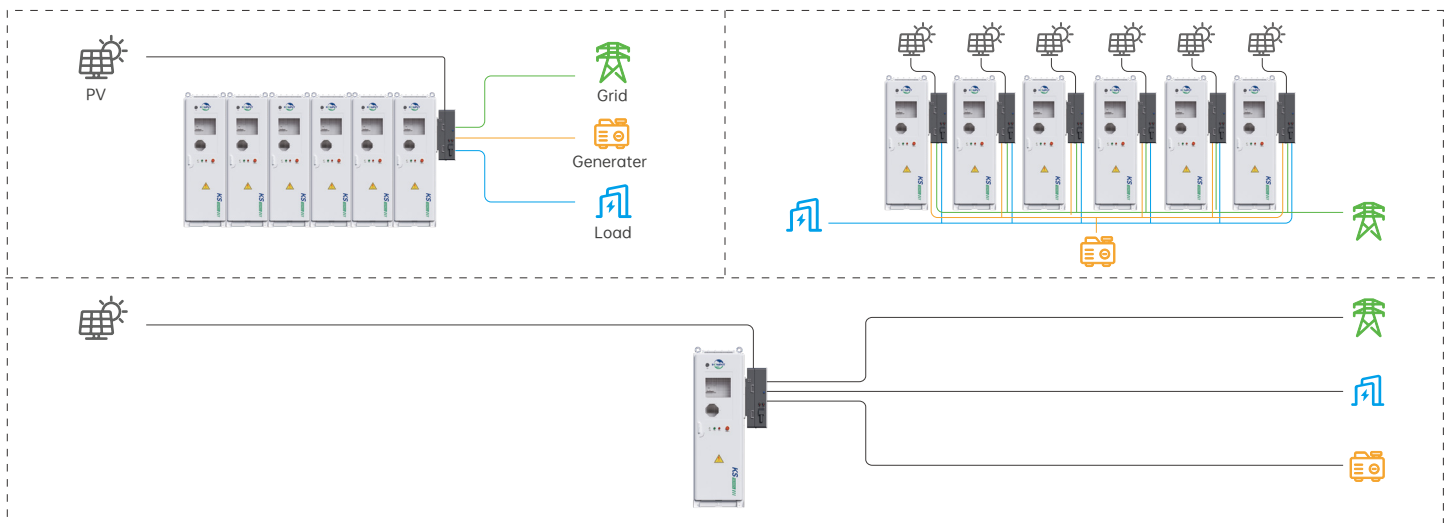
- Supports remote diagnostics and O&M.
- Modular design enables quick service and replacement.



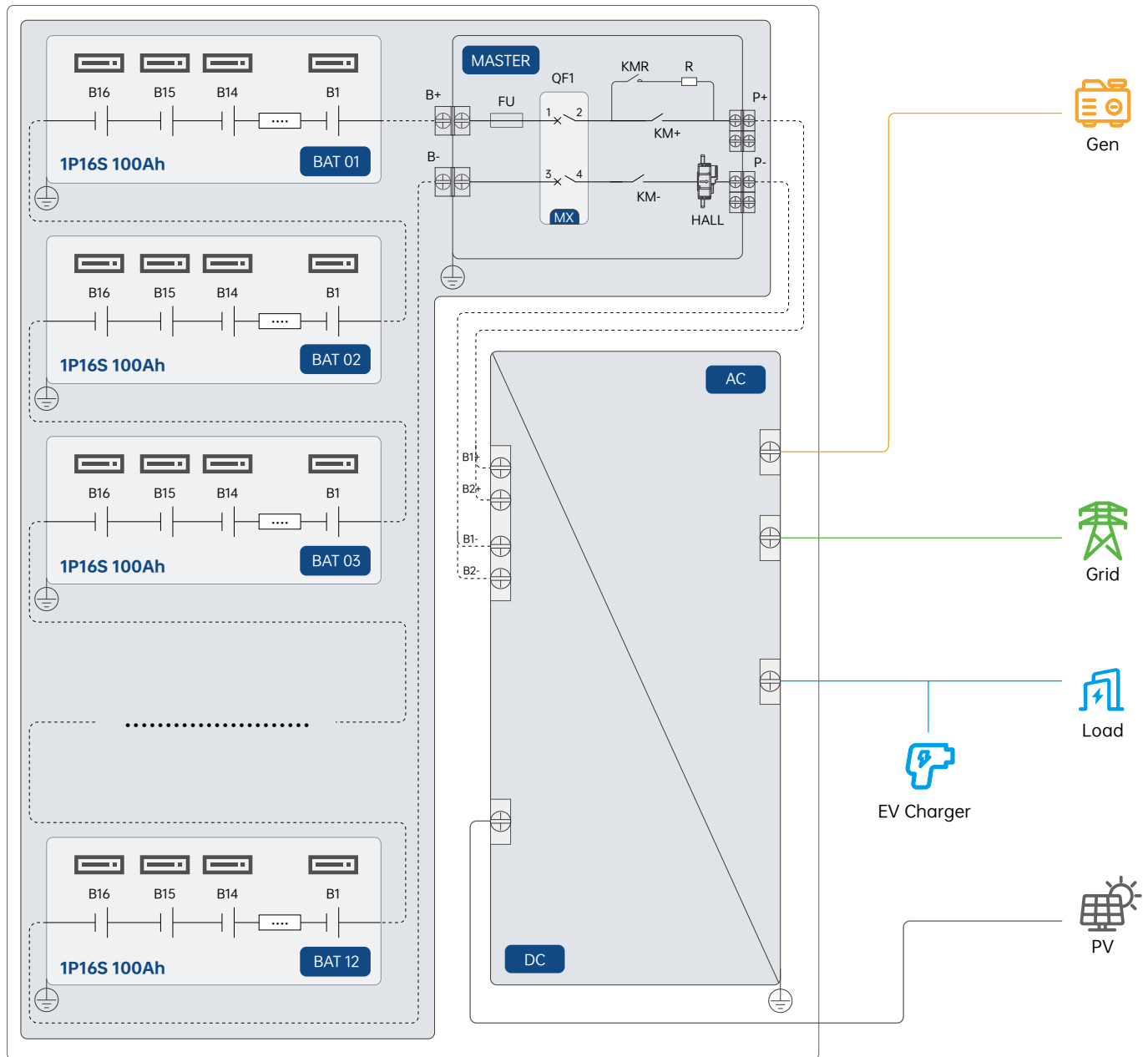
FLEXIBLE APPLICATION

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

Max. Parallel/Single System Layout



● Product Topology(For 480V System)

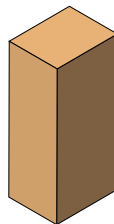


● Packaging & Shipping Details



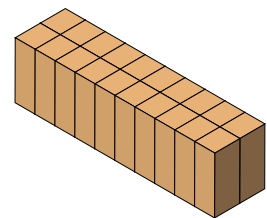
Product

~29.5*37.4*89.7 in
~2314.8 lb



1Set

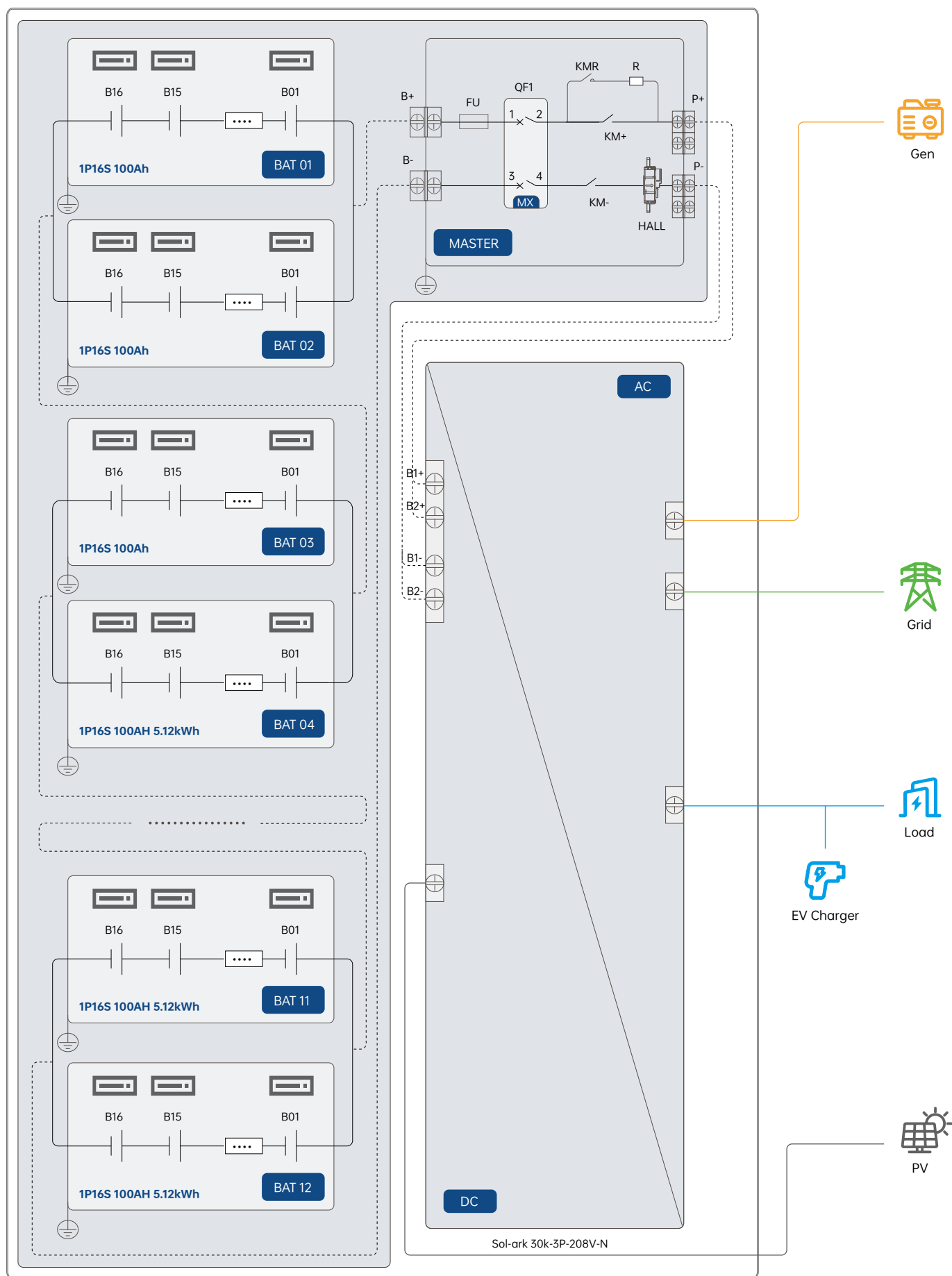
~33.46*41.34*92.52 in
~2425 lb



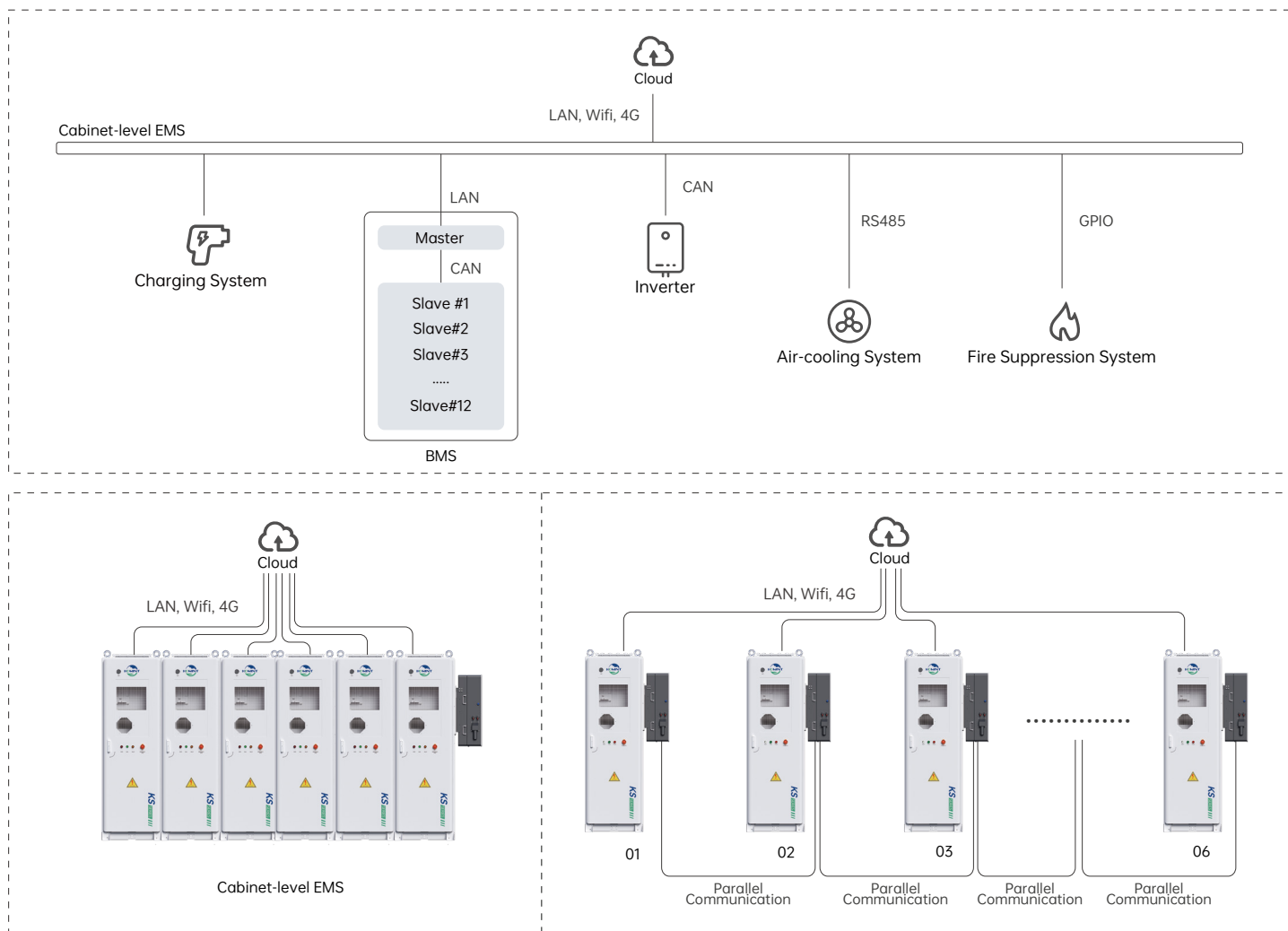
40C

20 Set
~48501 lb

● Product Topology(For 208V Application)



● 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. Allowed PV Power (STC)(kW)	78
MPPT Voltage Range (V)	150~850
Startup Voltage (V)	180
Max. Input Voltage (V)	1000
Max. Operating Input Current per MPPT (A)	36
Max. Short Circuit Current per MPPT (A)	55
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input (kW)	60

Charging System(Optional)

Charging Type	Charging Mode 3 Case c, level 2
Outlet options	AC Type 1 (SAEJ1772)
Input/Output Current Rating (A)	32 / 48 / 80
Input/Output Power Rating (kW)	7.7 / 11.5 / 19.2@240VAC
Input/output voltage (VAC)	208~240
Input Frequency (Hz)	50/60
Cable Length	16 feet, Optional: 25 feet
Distribution Systems	Single phase, split-phase
Connector Type	L1 + L2 + PE
Certifications	UL2594, UL2231-1, UL2231-2, UL1998 UL991FCC Part 15 ClasS B, ENERGY STAR

AC Output(On-Grid)

Nominal AC Voltage (3Φ)(V)	277/480
Grid Frequency (Hz)	50 / 60
Real Power, max continuous (3Φ)(kW)	60
Max. Output Current (A)	72.3
Peak Apparent Power (10s, off-grid, 3Φ)(kVA)	90
Max. Grid Passthrough Current (10min)(A)	200
Continuous Grid Passthrough Current (A)	180
Power Factor Output Range	±0.8 adjustable
Backup Transfer Time	5ms (adjustable)
CEC Efficiency	96.5%
Design (DC to AC)	Transformerless DC

General Parameters

Product Model	K-KS061060A1-US
System Scalability	Max. 6 System in Parallel
Dimensions - W*D*H (in)	29.5*37.4*89.7
Weight Approximate (lb)	2314.8
Working Temperature (°C/°F)	30~50/-22~122
Communication Interface	CAN, RS485, Wi-Fi, LTE
Humidity	5%~85%, non-condensation
Altitude	≤4000m/13122ft(2000m/6561ft derating)
IP Rating	IP55
Storage Temperature (°C/°F)	Short-term (≤3 months): -30°C ~ 60°C (-22°F ~ 140°F) Long-term (3~12 months): -20°C ~ 30°C (-4°F ~ 86°F)
Recommend Depth of Discharge	90%
Cycle Life	>8000 cycles
Warranty[2]	10 years
Certification(Battery)	ANSI/CAN/UL 9540:2020, ANSI/CAN/UL 1973:2022 UL 9540A, FCC Part 15 Subpart B:2023 IEC62619/TUV MARK, EMC/RF, CE-LVD/62477, 9540, CEC
Certification(Inverter)	UL 1741-2021 (UL1741SB) CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0) UL 1741 CRD-PCS, UL1699B, CEC, SGIP 4

● Product Specifications (For 208V 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	6S2P
System Nominal Voltage (V)	307.2
System Operating Voltage (V)	281.3~340.8
System Energy (kWh)	61.44
Charge/Discharge Current (A)	95

PV Input

Max. Allowed PV Power (STC)(kW)	39
MPPT Voltage Range (V)	150~500
Startup Voltage (V)	180
Max. Input Voltage (V)	550
Max. Operating Input Current per MPPT (A)	36
Max. Short Circuit Current per MPPT (A)	55
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input (kW)	30

Charging System(Optional)

Charging Type	Charging Mode 3 Case c, level 2
Outlet options	AC Type 1 (SAEJ1772)
Input/Output Current Rating (A)	32 / 48 / 80
Input/Output Power Rating (kW)	7.7 / 11.5 / 19.2@240VAC
Input/output voltage (VAC)	208~240
Input Frequency (Hz)	50/60
Cable Length	16 feet, Optional: 25 feet
Distribution Systems	Single phase, split-phase
Connector Type	L1 + L2 + PE
Certifications	UL2594, UL2231-1, UL2231-2, UL1998 UL991FCC Part 15 ClasS B, ENERGY STAR

AC Output(On-Grid)

Nominal AC Voltage (3Φ)(V)	120/208
Grid Frequency (Hz)	50 / 60
Real Power, max continuous (3Φ)(kW)	30
Max. Output Current (A)	83.4
Peak Apparent Power (10s, off-grid, 3Φ)(kVA)	45
Max. Grid Passthrough Current (10min)(A)	200
Continuous Grid Passthrough Current (A)	180
Power Factor Output Range	±0.8 adjustable
Backup Transfer Time	5ms (adjustable)
CEC Efficiency	96.5%
Design (DC to AC)	Transformerless DC

General Parameters

Product Model	K-KS061030A1-US
System Scalability	Up to 6 in parallel
Dimensions - W*D*H (in)	29.5*37.4*89.7
Weight Approximate (lb)	2314.8
Working Temperature (°C/°F)	30~50/-22~122
Communication Interface	CAN, RS485, Wi-Fi, LTE
Humidity	5%~85%, non-condensation
Altitude	≤4000m/13122ft(2000m/6561ft derating)
IP Rating	IP55
Storage Temperature (°C/°F)	Short-term (≤3 months): -30°C ~ 60°C (-22°F ~ 140°F) Long-term (3~12 months): -20°C ~ 30°C (-4°F ~ 86°F)
Recommend Depth of Discharge	90%
Cycle Life	>8000 cycles
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