JKE-78K-102-BA/JKE-65K-85-BA

AIDC Data Center Lithium Battery

JinkoSolar Storage AIDC Data Center Lithium Battery System Series is a lithium iron phosphate (LFP) backup power solution developed by JinkoSolar Storage specifically for data center applications. With outstanding features such as ultra-high safety, high performance, and high cost-effectiveness, this series breaks through the performance limitations of traditional lead-acid batteries and is compatible with HVDC/SST architectures, making it the preferred backup power solution for AIDC.





Ultimate Safety, Active Protection

- Latest high-rate LFP technology for intrinsic safety
- Millisecond fault response · Cell nano insulation + module high-temp protection · 3-level overcurrent protection (Cell → Module → Cabinet)
- Pack-level + cabinet-level aerosol extinguishing – fast, precise, no flame spread

High Power Performance for AIDC

- Supports 4C–10C discharge · Max output power: 560kW/rack (10C @ 768V)
- Compatible with UPS, HVDC, SST and other power architectures
- 15-year design life (25°C) , stable operation throughout full lifecycle

High Cost-Effectiveness

- Saves 70% floor space compared to lead-acid batteries, significantly improving space utilization
- Reduces O&M costs by 80% with intelligent management, minimizing manual intervention
- Achieves 8% higher cabinet density for improved energy integration

Flexible & Fast Deployment

- Supports up to 12 cabinets in parallel for easy scalability
- Faulty pack can be replaced within 5 minutes
- Full-cabinet transport ready, adaptable for indoor, outdoor, and remote layouts, faster on-site deployment

Proven Reliability

- Cell material & process design, thermal safety, fully validated
- 1,100 days of continuous fault-free operation
- 24/7 cloud monitoring, charge-and-diagnose, intelligent maintenance
- 30+ authoritative certifications including UN38.3, UL9540A, UL1973, IEC62619

Green & Low-Carbon Ready

- Supports renewable energy integration, energy time-shifting, and peak shaving & valley filling
- Improves energy efficiency and reduces losses
- Helps data centers achieve 100% renewable energy targets

6C System Parameters

Item	Specifications		
Rated Voltage	512V	614.4V	768V
Rated Capacity (25°C, 0.33C)	102Ah		
Rated Energy (25°C, 0.33C)	52.22kWh	62.66kWh	78.33kWh
Number of Packs	10	12	15
Voltage Range	448~576V	537.6~691.2V	672.0~864V
Maximum Output Power	280 kW	340 kW	420 kW
Weight	≈875kg	≈965kg	≈1100kg
Standard Charging Current (25°C)	102A		
Recommended Charging Voltage (15 Packs)	820~840V		
Cut-off Voltage (15 Packs)	672V		
Internal Resistance	＜60mΩ		
Protection Functions	Over-charge, Over-discharge, Over-temperature, Short Circuit Protection		
Storage Temperature	0°C~45°C		
Operating Temperature	0°C to 45°C (Recommended: 15°C to 35°C)		
Relative Humidity	5%~95% (No Condensation)		
Operating Altitude	⩽4000m (Derating Required Above 1000m)		
Material System	LiFePO4		
IP Level	IP20		
Dimensions (W×D×H) mm	600*1000*2000mm（RACK） 240*737*135mm（PACK）		
Installation	Front Reserved Space: 800mm, Rear Wall-Mounted Installation		
Communication Protocol	RS485, CAN, TCP, Dry Contacts, etc.		
Cycle Life (1C/6C, 25°C)	⩾1000@80%SOH		
Design Life (25°C)	15 Years		
Fire Protection	Pack Level + Rack Level		
Compatibility	Mainstream UPS and HVDC Solutions		
Certification Plan	UN38.3，UL9540A，UL1973，IEC62619，IEC62477，AC 156，EN61000-6-2&EN61000-6-4		

© 2026 Zhejiang Jinko Energy Storage Co., Ltd. All rights reserved.

Version: IEC_2026_A1

10C System Parameters

Item	Specifications		
Rated Voltage	512V	614.4V	768V
Rated Capacity (25°C, 0.33C)	85Ah		
Rated Energy (25°C, 0.33C)	43.52kWh	52.22kWh	65.28kWh
Number of Packs	10	12	15
Voltage Range	448~576V	537.6~691.2V	672.0~864V
Maximum Output Power	370 kW	450 kW	560 kW
Weight	≈875kg	≈965kg	≈1100kg
Standard Charging Current (25°C)	85A		
Recommended Charging Voltage (15 Packs)	820~840V		
Cut-off Voltage (15 Packs)	672V		
Internal Resistance	＜60mΩ		
Protection Functions	Over-charge, Over-discharge, Over-temperature, Short Circuit Protection		
Storage Temperature	0°C~45°C		
Operating Temperature	0°C to 45°C (Recommended: 15°C to 35°C)		
Relative Humidity	5%~95% (No Condensation)		
Operating Altitude	⩽4000m (Derating Required Above 1000m)		
Material System	LiFePO4		
IP Level	IP20		
Dimensions (W×D×H) mm	600*1000*2000mm（RACK） 240*737*135mm（PACK）		
Installation	Front Reserved Space: 800mm, Rear Wall-Mounted Installation		
Communication Protocol	RS485, CAN, TCP, Dry Contacts, etc.		
Cycle Life (1C/6C, 25°C)	⩾1000@80%SOH		
Design Life (25°C)	15 Years		
Fire Protection	Pack Level + Rack Level		
Compatibility	Mainstream UPS and HVDC Solutions		
Certification Plan	UN38.3，UL9540A，UL1973，IEC62619，IEC62477，AC 156，EN61000-6-2&EN61000-6-4		

© 2026 Zhejiang Jinko Energy Storage Co., Ltd. All rights reserved.

Version: IEC_2026_A1

Battery Configuration Table



Congifuration Table						
Load (kW)	DS-10C,5min		DS-6C,10min		DS-6C,15min	
	Battery Cabinet Quantity	Battery Pack Quantity	Battery Cabinet Quantity	Battery Pack Quantity	Battery Cabinet Quantity	Battery Pack Quantity
300	1	1*10	1	1*12	2	2*10
400	1	1*12	1	1*15	2	2*12
500	1	1*15	2	2*10	2	2*15
600	2	2*10	2	2*12	3	3*12
800	2	2*12	2	2*15	3	3*15
1000	2	2*15	3	3*12	4	4*15
1200	3	3*12	3	3*15	5	5*15
1500	3	3*15	4	4*15	6	6*15
1600	3	3*15	4	4*15	6	6*15
1800	4	4*12	5	5*15	7	7*15
2000	4	4*15	5	5*15	8	8*15
2250	4	4*15	6	6*15	8	8*15
2500	5	5*15	6	6*15	9	9*15

© 2026 Zhejiang Jinko Energy Storage Co., Ltd. All rights reserved.

Version: IEC_2026_A1