



Optimal Performance and Safety with Integrated BMS Lithium Battery Storage

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GK
- Certification: IEC62619, CE, UN38.3, VDE-AR-N 4105, IEC 62109
- Model Number: GKCIE81
- Minimum Order Quantity: 10 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



DOC-HV51200 10.24KWH Module
50kVA 80 100 120 130kWh

Product Specification

- Battery Chemistry: LiFePO4 Battery
- Capacity: 81.92kWh, 102.4kWh, 122.88kWh, 133.12kWh
- Max Charge/Discharge Current: 100A
- Cycle Life: > 6500 Cycles (at 25°C, 0.5C/0.5C, 80% EOL)
- Waterproof Rating: IP55
- Operating Temperature: Charge: 0°C ~ 55°C / Discharge: -20°C ~ 55°C
- Highlight: **100a lithium battery storage,**
ip55 lithium battery storage,
100a commercial energy solutions

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Product Description

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Product Description

This Commercial & Industrial ESS (Energy Storage System) is designed for high-capacity energy storage in industrial settings. With a modular design that allows scalability up to 130kWh, it provides a reliable solution for large-scale energy needs. The integrated BMS (Battery Management System) ensures optimal performance, safety, and monitoring, while the high-performance PCS (Power Conversion System) enhances overall system stability. The system is pre-configured for fast installation, saving on-site setup time and reducing operational costs.

System Specification	
Nominal Output Power/UPS Power (W)	5000
AC Output Frequency and Voltage	50/60Hz;3L/N/PE 220/380,230/400Vac
Grid Type	Three phase
Energy Configuration(kWh)	81.92 102.4 122.88 133.12
Dimension (WxDxH)	1400*1100*1650mm/55.1*43.3*65 in(no contain inverter)
Weight Appr. (no contain inverter)	81.92kgs/181 lbs 1172.0kgs /2584 lbs 1294.4kgs/2854 lbs 1375.6kgs/3033 lbs
Max Charge &Discharge Current(A)	100
Battery Operating Voltage (V)	500~800
Battery Chemistry	LiFePO4
IP Rating of Endosure	IP55
System Certification	UN38.3,IEC62619,CE,CEI 0-21,VDE-AR-N 4105,IEC 62109
Installation Style	Floor-Mounted
Warranty	10 years

Inverter Technical Specification	
Max.PV Input Power (W)	65000
Max.PV Input Current (A)	36+36+36+36
Rated PV Input Voltage(Vdc)	600
Start Up DC Voltage(Vdc)	180
MPPT Voltage Range(Vdc)	150-850
Max.PV Short-circuit Current(A)	55+55+55+55
Number ofMPPT	4
Peak Power (off grid)	1.5 time of rated power,10s
Power Factor	0.8 leading to 0.8 lagging
THD	<3%
DC injection current(mA)	<0.5In
Display	LCD
Operating Temperature Range(°C)	-40~60(>45°C derating)
Relative Humidity	15% 85%(No Condensing)
Dimension (WxDxH,mm)	420x233x670
Inverter Communication	CAN,RS485,WIFI,ETH
Safety EMC/Standard	IEC/EN62109-1,IEC/EN 62109-2,IEC/EN,61000-6-1,IEC/EN 61000-6-2,EC/EN61000-6-3,IEC/EN61000-6-4
Grid Regulation	VDE4105,IEC61727/62116,VDE0126,AS4777.2,CEI021,EN50549-1,G98,G99,C10-11,UNE217002,NBR16149/NBR16150
Max,Efficiency	97.6%
Max.charging/discharging efficiency	91%
Max Parallel connection sets	10

Battery Technical Specification				
Battery Module Nominal Voltage(V)	409.6	512	614.4	665.6
Battery Capacity (Ah)		200		
Battery Energy (kWh)	81.92	102.4	122.88	133.12
BMS Communication		CAN		
BMS parallel support connection		3sets(Standard),32 sets(Extra BAU module)		

Max Charge & Discharge Current(A)		100	
Operating Temperature Range		Charge:0~55°C/Discharge:-20°C~55°C	
Cycle Life		≥6500(@25°C±2°C,0.5C/0.5C,70%EOL)	
Short Circuit Protection		YES	
Over Current Protection		YES	
Over Charge Protection		YES	
Over Temperature Protection		YES	
Cell Over Voltage Protection		YES	
Cell Over Under Protection		YES	
Cell Discharge Protection		YES	

Application

The Commercial & Industrial ESS is suitable for various large-scale industrial and commercial energy applications, including:

Grid stabilization

Renewable energy storage (solar, wind)

Peak load shifting

Backup power supply for critical infrastructure

Microgrids and isolated power stations

Shipping Methods

Supports global air and sea shipping.



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