



Flexible Energy Storage Solutions with Lithium Battery Storage for Residential

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GK
- Certification: IEC62619, CE-EMC, UN38.3, MSDS
IEC62109, CE-EMC, EN61000
- Model Number: GKAIORÉ
- Minimum Order Quantity: 5 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



DOC-GK-AIO-5K10, GK-AIO-5K20

Product Specification

- Battery Energy: 10.24kWh Or 20.48kWh
- Max Output Power: 6000W (On-grid) / 5000W (Off-grid)
- Battery Type: LFP (Lithium Iron Phosphate)
- Max Charging/Discharging Current: 100A
- PV Input Power: 7500Wp
- Operating Temperature Range: -20°C To 55°C
- Highlight: **residential lithium battery storage ,
residential commercial energy solutions,
100a lithium battery storage**

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Product Description

Flexible Energy Storage Solutions with Lithium Battery Storage for Residential

Product Description:

The All In One Residential ESS integrates high efficiency and advanced protection, making it ideal for residential energy storage. This system supports both grid-tied and off-grid operation, enabling maximum flexibility and reliability in energy management. The modular design allows easy installation and scalability, supporting oversized PV power for higher energy storage capacity. With advanced REPT LFP battery technology, this system offers triple protection for stable and safe performance. The system is designed for remote monitoring via a mobile app, making it user-friendly and convenient for homeowners.

| | | |
|---|---|--|
| Battery Parameter | | |
| Battery Type LFP | | |
| Battery Energy | 10.24kWh | 20.48kWh |
| Number of Batteries | 1 | 2 |
| Battery Voltage | 51.2V | |
| Voltage Range 42V~60V | | |
| Max.Charging/Discharging Current 100A | | |
| Option 16PCS parallel supported(max 160kWh) | | |
| Dimension(W*D*H) | 560*180*920mm*2 | /20.0*7.1*36.2 in*2 |
| Weight 100kg/220 lbs | 200kg /440 lbs | |
| Off-grid Output | | |
| Nominal | Output Power | 5000W |
| Nominal | Voltage | 220V/230V/240V |
| Nominal | Frequency | 50/60Hz |
| Nominal | Output Current | 22.7A |
| Nominal | Output THDu | <2% |
| On-grid Parameter | | |
| Nominal Output Power | | 6000W |
| Max.Input Current | | 27.2A |
| Nominol Grid Voltage | | 220V/230V/240V |
| Output Current from Grid | | 27.2A |
| Input Voltage Range | | 184-276V |
| Nomindl Frequency | | 45-65Hz |
| PV Input | | |
| Max.Input Power | | 7500Wp |
| Starting Voltage | | 95V |
| Max,Input Voltage | | 600V |
| MPPT Operating Voltage Range 80-550V | | |
| Full Load MPPT Operating Voltage Range | | 350-500V |
| Number of MPPTs | | 2 |
| Max.Input String Per MPPT | | 1 |
| Nominol input Voltage | | 360V |
| Max Input Current | | 18A/18A |
| Efficiency | | |
| Mox PV Efficiency | | 98.00% |
| Furo PVEfficiency | | 97.50% |
| Max.Battery Charging Efficiency | | 95.20% |
| Max.Battery Discharging Efficiency | | 95.20% |
| General Specifications | | |
| Dimension(W*H*D) | | 560*180*1510mm/20.0*7.1*59.4 in 1200*180*1510mm/47.2*7.1*59.4 in |
| Weight 128kg/282 lbs | | 228kg /503 lbs |
| Noise <25dB(A) | | |
| Operating Temperature Range -20°C~+55°C | | |
| Cooling Method Naturdl cooling | | |
| Ingress Protection Grode IP65 | | |
| Display LED/APP/WFI/4G/Bluetooth | | |
| Communication Port RS485/CAN/DRED/Dry contact/Parallel port | | |
| | DC Switch,PVInsulationResistance Detection,ResidualCurrentMonitoring,Anti-islanding Protecion, | |
| Protection Reverse Polarity Protection(PV&Battery)ACShortCrcuit Protection,ACOvercurrent Protection, | | |
| | ACOvervoltage Protecion:LEVELIII;PV8Bottery:LEVELI, Surge Protection,Lightring Protection:TYPEII | |

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|--|---|
| Inverter Certification | |
| CE LVD | IEC62109-1,IEC62109-2,EN 62109-1,EN 62109-2 |
| CE EMC | EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4 |
| Grid VDE-AR-N 4105,C10-11,G98/G99,CEI 0-21,EN50549,NRS 097-2-1,AS 4777.2 R25,UNE217001,UNE217002,NTS 2.1 | |
| Battery Certification | |
| | IEC62619,CE-EMC,UN38.3,MSDS |

Application:

This ESS is ideal for residential applications where efficient energy storage and management are required. It provides backup power during outages, supports diesel generator control, and offers seamless integration with existing solar systems for both on-grid and off-grid use. It is especially useful for areas prone to power instability or where renewable energy optimization is needed.

Shipping Methods

Supports global air and sea shipping.



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