



Grid-Tied and Off-Grid Functionality with Lithium Battery Storage for Homes

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GK
- Certification: IEC62109-1/-2 EN61000-6-1/EN61000-6-3
- Model Number: GK AIO
- Minimum Order Quantity: 12 Units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Battery Energy: 10.24kWh (expandable To 20.48kWh)
- Maximum Charging/Discharging Current: 100A
- Rated Output Power: 6.6kW
- Maximum Input Power (PV): 8000W
- Efficiency: 97.50%
- Weight: 125.5kg For The 10.24kWh Version, 225.5kg For The 20.48kWh Version
- Highlight: **6kw lithium battery storage,
100a lithium battery storage,
6kw commercial energy solutions**

Product Description

Grid-Tied and Off-Grid Functionality with Lithium Battery Storage for Homes

Product Description:

This All In One Residential ESS integrates a high-performance inverter and energy storage system, making it the ideal solution for residential energy needs. Equipped with REPT LFP battery technology, it provides enhanced safety, stability, and longevity. The modular design ensures easy installation, and the plug-and-play functionality enables seamless operation. Its advanced monitoring capabilities, including mobile app control, and diesel generator support make it a versatile and reliable option for residential energy storage.

Battery Parameter	
Battery Type LFP	
Battery Energy	10.24kWh
Number of Batteries	2
Battery Voltage	51.2V
Voltage Range	42V~60V
Max.Charging/Discharging Current	100A
DC input(PV)	
Max.Allowable Input lower	8000W
Mgx Input Voltage	580V
Rated Input Voltage	350V
Start-up Voltage	120V
MPPT Voltage Range	120~520V
Max.Input Current	15A/15A
Max.Short Circuit Current	22.5A/22.5A
Number of MPPT/Max.Number ofPV Strings	2/2
AC Output(Grid)	
Rated output power	6000W
Max.Output Power	6.6kW
Max.Output Apparent Power	6.6kVA
RatedOutput Current	27.3A
Max.Output Current	30A
Switching Time	<10ms
Rated Output Voltage/Frequency	LN/PE 220V/230V 50Hz/60Hz
Output Power Factor	0.8 leading...0.8 lagging
Total Current Harmonic Distortion Rate (on-grid)	<2%
AC Output(Load)	
Max.Output Power 6.6kW	
Max.Output Apparent Power 6.6kVA	
Max.Output Current 30A	
Rated Output Voltage/Frequency L/N/PE 220V/230V 50Hz/60Hz	
Total Current Harmonic Distortion Rate (off-grid) <3%	
AC Output(Charging Pile)	
Max.Output Apparent Power 7.4kVA	
Max.Output Current 40A	
Rated Output Voltage/Frequency L/N/PE 220V/230V 50Hz/60Hz	
AC Input	
Max.Output Apparent Power 10kVA	
Max.Output Current 50A	
Rated Output Voltage/Frequency L/N/PE 220V/230V50Hz/60Hz	
Efficiency	
Max.PV Efficiency 97.50%	
Standard	
Safety Regulations IEC62109-1/-2	
Electromagnetic Compatibility EN61000-6-1/EN61000-6-3	
Basic Parameter	
Dimension(W*D*H) 595*435*630mm/23.4*17.1*24.8 in	595*435*1070mm/23.4*17.1*42.1 in
Weight 125.5kg/277 lbs	225.5kg/497 lbs
Cooling Method air-cooling,wind speed adjustable	
Protection Class P20	
Ambient Temperature -25°C~+60°C(>45degree	
Maximum Altitude 3000m	
Communication Mode RS485/WIFI/GPRS (external communication bar)	

Application:

Designed for residential settings, this system efficiently manages solar energy, allowing for grid-tied and off-grid functionality. It is perfect for households looking to reduce energy costs, enhance energy independence, and ensure reliable backup power during outages. With the ability to support oversized PV power systems, this solution is adaptable for a wide range of energy

needs in the home.

Shipping Methods

Supports global air and sea shipping.



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