



## 6KW 400V Mppt Hybrid Solar Inverter Home Energy System 50hz 60hz

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Qiyuan
- Certification: CE, IEC
- Model Number: GC6K-B400
- Minimum Order Quantity: 10
- Price: USD/CNY, Unit
- Packaging Details: wooden case
- Delivery Time: 1-2 months
- Payment Terms: L/C, T/T
- Supply Ability: 500 set per month



### Product Specification

- Product Name: MPPT Hybrid Solar Inverter
- Type: Hybrid Solar Inverter
- Application: Solar Power System Home
- Input Voltage: 200-1000V DC
- Output Power: 1~12kW
- Output Voltage: 110V/220V/230V/240V
- Output Frequency: 50Hz/60Hz
- Output Waveform: Prue Sine Wave
- Output Current: 0~75A
- Output Type: Multiple
- Efficiency: >97%
- Protection: Overload Over-heat, over Temperature And Short Circuit, Overvoltage, overcharge
- Weight: 28kg
- Warranty: 5 Years

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## Product Description

This Single-phase Hybrid Inverter is suitable for North America use, applicable for villa, communication base station, nomadic area, farm, residential power station, field power supply

### 1. Advanced

- \* Maximum efficiency up to 98.2%
- \* 4 independent MPPT design, making full use of light energy in different directions.
- \* Distributed virtual power station management mode.
- \* Remote monitoring of PC and mobile phones.

### 2. Flexible

- \* The model covers 5-10kVA, with unified appearance design.
- \* Wide battery input range, compatible with a variety of lithium batteries and lead-acid.

### 3. Reliable

- \* Battery reverse connect protection, the charge and discharge are controlled by intelligent software to improve the battery life.
- \* Input and output lightning protection, PV arcing detection.
- \* Discharge at full power and disconnect the charger automatically when the battery is full.
- \* Off grid full power output, transient 1.5 times overload, soft start mode, with air conditioning, water pump and other loads.
- \* Insulation detection, leakage battery, ground fault detection, island protection to prevent electric shock.

### 4. Design

- \* Elegant appearance, convenient wiring.
- \* IP65 design, natural cooling, external fan free design, low noise, improved service life.

Input (PV)				
Max. PV Input Power	7.8KW	10.4KW	13KW	15.6KW
Max. PV Input Voltage	500V			
Start Voltage	120V			
MPP Voltage Range	125V~500V			
Rated MPPT Voltage Range	360V			
Max. Input Current per MPPT	12A			
No. of MPPT/String	4/1			
Output (AC)				
Max. Output Current	27.3A	36.4A	45.4A	50A
Rated Power	6kVA	8kVA	10kVA	12kVA
Rated Voltage	230V, L + N+PE			
Grid voltage / range	240/211~264V			
Operating Voltage Range	176V~270V			
Rated Frequency	50Hz/60Hz			
Power Factor	1			
THDi	< 3%			
Output (EPS)				
Rated Power	6kVA	8kVA	10kVA	12kVA
Rated Voltage	220~240/110~120 Vac			
Rated Current	27.3A	36.4A	45.4A	50A
Rated Frequency	50Hz/60Hz			
Automatic Switching Time	<20ms			
Overload Capability	120%, 10S / 150%, 0.02S			
THDU	<2%			
Battery				
Battery Voltage Range	85~400V			
Charge/Discharge Current	80A/80A			
Battery type	Lithium			
Communication	CAN/RS485			
Efficiency				
Max. DC Efficiency	98.2%			
European Efficiency	97.2%			
MPPT Efficiency	99.9%			
Battery Charge/Discharge Efficiency	95.5%			
Communication				
Display	LCD			
Communication	RS485/CAN/DRM, Optional: Wifi/LAN			
Standard				
Certificates	CE			
General Data				
Dimensions (W x H x D )	530 x 660 x 200 mm			
Weight	30kG			
Operation Temperature	-25°C~+60°C			
Colling Method	Forced air cooling			
Protection Level	IP65			
Noise	<35dB			
Max. Operation Altitude	5000M (derate above 2000M)			
Relative Humidity	0~95%			

Power Consumption	<3W
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