



Single Phase Hybrid Solar Inverter 10KW 400V MPPT Solar Charge Controller

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Qiyuan
- Certification: CE, IEC
- Model Number: GC10K-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 6-12kVA, 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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