



# 230v 6kw Hybrid Inverter 1-12kw Mppt Hybrid Inverter For North America

### **Basic Information**

Place of Origin: China
Brand Name: Qiyuan
Certification: CE, IEC
Model Number: GC6K-230
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 DCOutput Power: 1~12kW

• Output Voltage: 110V/220V/230V/240V

Output Frequency: 50Hz/60HzOutput Waveform: Prue Sine Wave

Output Current: 0~75AOutput Type: MultipleEfficiency: >97%

 Protection: Overlaod Over-heat, over Tempereture And Short Circuit, Overvoltage, overcharge

Weight: 28kgWarranty: 5 Years

### **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 node.
- \* Remote monitoring of computers and mobile phones

#### 2 Florible

- \* The model covers 5-10kVA, with unified apprearance 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 ful.
- \* 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.

Max. PV Input Power Max. PV Input Voltage         7.8KW         10.4KW         13KW         15.6KW           Max. PV Input Voltage         5000V         Start Voltage Range         120V           MPP Voltage Range         125V-500V         Action MPPT/Story         360V           Max. Input Current per MPPT         12A         A/1           Output (AC)           Max. Output Current         27.3A         36.4A         45.4A         50A           Rated Power         6kVA         8kVA         10kVA         12kVA           Rated Power         6kVA         8kVA         10kVA         12kVA           Rated Prequency         50Hz/60Hz         50Hz/60Hz         50Hz/60Hz           Power Factor         1         1         1         1           THDI         < 3%         3%         0         0         0         1 <t< th=""><th></th><th>Input (P</th><th>'V)</th><th></th><th></th></t<>		Input (P	'V)		
Max. PV Input Voltage   Sint Voltage   Start Voltage   Start Voltage   Start Voltage   Start Voltage Range   Sint Voltage Range   Si	Max. PV Input Power			13KW	15.6KW
MPP 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 Power         6kVA         8kVA         10kVA         12kVA           Rated Voltage         230V, L + N+PE         Grid voltage         240/211~264V           Operating Voltage Range         176V~270V         Factor         1           THDI         <3%					
Rated MPPT Voltage Range   360V	Start Voltage				
Rated MPPT Voltage Range   360V			125V~	~500V	
No. of MPPT/String					
Output (AC)           Max. Output Current         27.3A         36.4A         45.4A         50A           Rated Power         6kVA         8kVA         10kVA         12kVA           Rated Power         6kVA         8kVA         10kVA         12kVA           Rated Voltage Prange         240/211~264V         270V         240/211~264V           Operating Voltage Range         176V~270V	Max. Input Current per MPPT		12	2A	
Max. Output Current         27.3A         36.4A         45.4A         50A           Rated Power         6kVA         8kVA         10kVA         12kVA           Rated Voltage         230V, L + N+PE         240/211~264V           Operating Voltage Range         240/211~264V           Operating Voltage Range         176V~270V           Rated Frequency         50Hz/60Hz           Power Factor         1           THDI         <3%					
Rated Power   6kVA		Output (	AC)		
Rated Voltage	Max. Output Current	27.3A	36.4A	45.4A	50A
Grid voltage / range         240/211~264V           Operating Voltage Range         176V~270V           Rated Frequency         50Hz/60Hz           Power Factor         1           THDi         < 3%	Rated Power	6kVA	8kVA	10kVA	12kVA
Name	Rated Voltage		230V, L	+ N+PE	
Rated Frequency	Grid voltage / range		240/21	1~264V	
Power Factor	Operating Voltage Range				
THDi	Rated Frequency	50Hz/60Hz			
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   -20ms   Overload Capability   120%, 10S / 150%, 0.02S   THDU   -2%   Battery Voltage Range   85~400V   Charge/Discharge Current   80A/80A   Battery type   Lithium   Communication   CAN/RS485   Efficiency   98.2%   European Efficiency   97.2%   MPPT Efficiency   99.9%   Battery Charge/Discharge Efficiency   95.5%   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   Tol. Alba value   Tol. Alba val	Power Factor	1			
Rated Power         6kVA         8kVA         10kVA         12kVA           Rated Voltage         220~240/110~120 Vac         Accorded to the part of the p	THDi	< 3%			
Rated Power         6kVA         8kVA         10kVA         12kVA           Rated Voltage         220~240/110~120 Vac         Accorded to the part of the p			PS)		
Rated Current         27.3A         36.4A         45.4A         50A           Rated Frequency         50Hz/60Hz           Automatic Switching Time         <20ms	Rated Power	6kVA	8kVA	10kVA	12kVA
Rated Frequency Automatic Switching Time Overload Capability 120%, 10S / 150%, 0.02S THDU 22%  Battery  Battery Battery Voltage Range Charge/Discharge Current Battery type Communication CAN/RS485  Efficiency Max. DC Efficiency European Efficiency Battery Charge/Discharge Efficiency Battery Charge/Discharge Efficiency  Communication CAN/RS485  Efficiency Battery Charge/Discharge Efficiency Communication  Display Communication  Forced air cooling Protection Level IP65 Noise  200 ms	Rated Voltage		220~240/11	0~120 Vac	
Automatic Switching Time Overload Capability 120%, 10S / 150%, 0.02S THDU 2%  Battery  Battery  Battery Voltage Range Charge/Discharge Current Battery type Lithium Communication CAN/RS485  Efficiency  Max. DC Efficiency European Efficiency MPPT Efficiency Battery Charge/Discharge Efficiency  Communication Display Communication  Candidate  Communication  Display Communication  Display Communication  Candidate  Certificates CE  General Data  Dimensions (W x H x D ) Weight Operation Temperature Colling Method Protection Level Noise  Asserber  120ms 429ms 420ms	Rated Current	27.3A	36.4A	45.4A	50A
Overload Capability THDU  Restrect  Battery  Battery Voltage Range Charge/Discharge Current Battery type Communication  Efficiency  Max. DC Efficiency European Efficiency Battery Charge/Discharge Efficiency  Battery Charge/Discharge Efficiency  Communication  Display  Communication  CaN/RS485  Efficiency  98.2%  European Efficiency 99.9%  Battery Charge/Discharge Efficiency  Communication  Display  Communication  Candidate  Certificates  Ceneral Data  Dimensions (W x H x D )  Weight  Operation Temperature  Colling Method  Protection Level Noise  Standard					
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 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					
Battery Voltage Range Charge/Discharge Current Battery type Communication CAN/RS485  Efficiency  Max. DC Efficiency European Efficiency Battery Charge/Discharge Efficiency Battery Charge/Discharge Efficiency  Communication Display Communication  Display Communication  Certificates CE General Data  Dimensions (W x H x D ) Weight Operation Temperature Colling Method Protection Level Noise  Sandard  85~400V 80A/80A 80A/80					
Battery Voltage Range Charge/Discharge Current Battery type Lithium Communication CAN/RS485  Efficiency  Max. DC Efficiency European Efficiency MPPT Efficiency Battery Charge/Discharge Efficiency  Communication Display Communication  RS485/CAN/DRM, Optional: Wifi/LAN  Standard  Certificates CE General Data  Dimensions (W x H x D) Weight Operation Temperature Colling Method Protection Level Noise  RS485/CAN/DRM S700 FFOCE dair cooling Protection Level IP65 Noise  LCD CAN/RS485  Efficiency 98.2% 98.2% 99.9% PFICE CAN/DRM PFICE CAN/DRM PFICE CAN/DRM STAND	THDU	<2%			
Charge/Discharge Current Battery type Lithium Communication CAN/RS485  Efficiency  Max. DC Efficiency European Efficiency MPPT Efficiency Battery Charge/Discharge Efficiency  Communication Display Communication  RS485/CAN/DRM, Optional: Wifi/LAN  Standard  Certificates CE General Data  Dimensions (W x H x D) Weight Operation Temperature Colling Method Protection Level Noise  Sandard  Edition  CAN/RS485  Service  98.2%  99.9%  PS.5%  Communication  RS485/CAN/DRM, Optional: Wifi/LAN  Standard  CE  General Data  Dimensions (W x H x D) Forced air cooling Protection Level Noise <a href="mailto:assarched-lithium">assarched-lithium</a> CAN/RS485  Efficiency  98.2%  95.5%  Communication  Communication  Display  Communication  Standard  CE  General Data  Dimensions (W x H x D) Forced air cooling Protection Level IP65 Noise <a href="mailto:assarched-lithium">assarched-lithium</a> CAN/RS485  Efficiency  99.9%  95.5%  Communication  Display  Communication  Forced air cooling Protection Level IP65 Noise					
Battery type Lithium Communication CAN/RS485  Efficiency  Max. DC Efficiency 98.2% European Efficiency 97.2% MPPT Efficiency 99.9%  Battery Charge/Discharge Efficiency Efficiency  Communication  Display LCD 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					
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					
## Communication   Page 1					
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	Communication				
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	•				
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					
Battery Charge/Discharge Efficiency  Communication  Display Communication  BS485/CAN/DRM, Optional: Wifi/LAN  Standard  Certificates CE  General Data  Dimensions (W x H x D ) Weight Operation Temperature Colling Method Protection Level Noise  95.5%  695.5%  Forced air cooling Protection Level Forced air cooling Protection Level Noise  S35.5%  Assuming the protection Level P5.5%  Assuming the protection Level P5.5%  Forced air cooling Protection Level R5.5%  Forced air cooling R5.5%					
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		99.9%			
Communication  Display  Communication  RS485/CAN/DRM, Optional: Wifi/LAN  Standard  Certificates  CE  General Data  Dimensions (W x H x D )  Weight  Operation Temperature  Colling Method  Protection Level  Noise  CD  RS485/CAN/DRM, Optional: Wifi/LAN  Standard  CE  General Data  Forced are 200 mm  Sorced air cooling  Protection Level  IP65  Noise  A35dB	Battery Charge/Discharge	95.5%			
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					
Communication  RS485/CAN/DRM, Optional: Wifi/LAN  Standard  Certificates  CE  General Data  Dimensions (W x H x D )  Weight  Operation Temperature  Colling Method  Protection Level  Noise  RS485/CAN/DRM, Optional: Wifi/LAN  Standard  CE  General Data  530 x 660 x 200 mm  30kG  -25°C~+60°C  Forced air cooling  Protection Level  IP65  Noise  <35dB				CD	
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					
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				-	•
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	Certificates				
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		General D	_		
Weight 30kG  Operation Temperature -25°C~+60°C  Colling Method Forced air cooling  Protection Level IP65  Noise <35dB	Dimensions (W x H x D )				
Operation Temperature  Colling Method  Protection Level  Noise  -25°C~+60°C  Forced air cooling  IP65  <35dB					
Colling Method Forced air cooling Protection Level IP65 Noise <35dB					
Protection Level IP65 Noise <35dB					
Noise <35dB		ı			
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Relative Humidity	0~95%
Power Consumption	<3W

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