

Off grid Solar Inverter 5000W

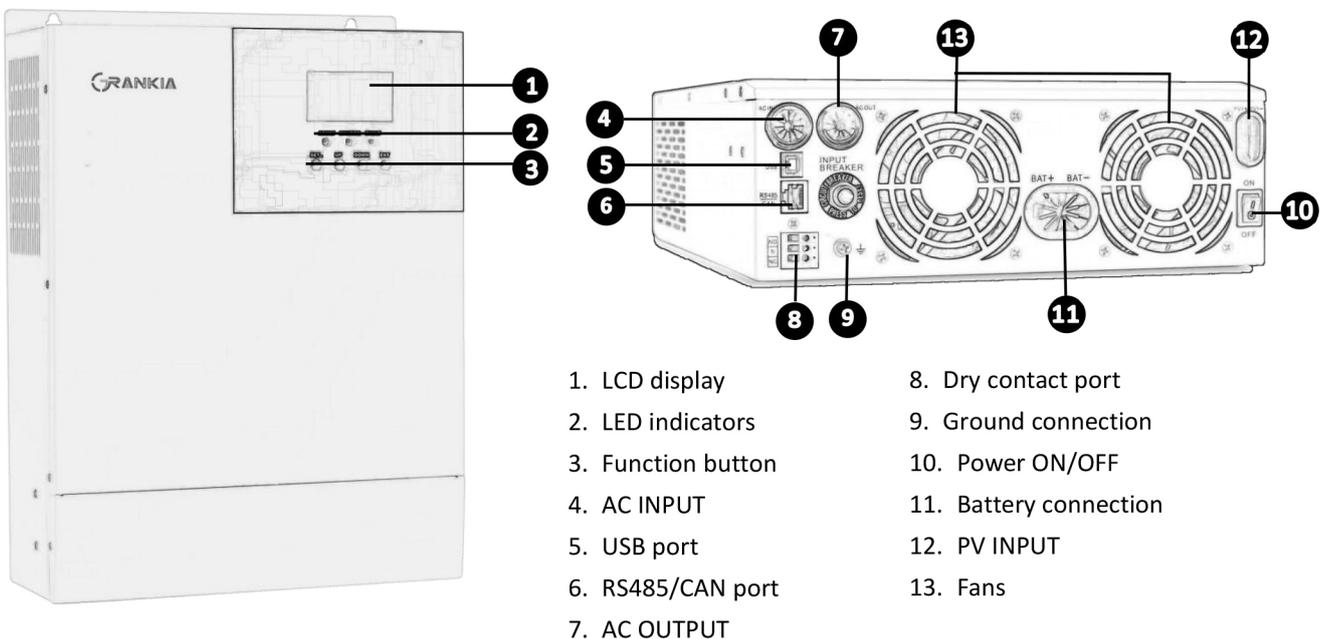
This series off-grid solar inverter is equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/Solar charger priority, and acceptable input voltage based on different applications. The max. PV array open circuit voltage can reach 500V, and MPPT voltage range is 120V-450V, which can help the users make full use of solar energy. It also can keep supplying power to the loads from PV energy or the grid without battery connected.



Product Features

- Pure sine with output with advanced SPWM technology
- Configures quickly into compact wall mounted system
- Built-in MPPT solar charge controller
- High battery charging current
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Uninterruptible power supply in case of grid black-out
- Integrated lithium iron battery activation function
- Support multiple communication interface, like USB, RS485/CAN, and dry contact
- Overload, over-temperature and short-circuit protection

Product Overview



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|--------------------|------------------------|
| 1. LCD display | 8. Dry contact port |
| 2. LED indicators | 9. Ground connection |
| 3. Function button | 10. Power ON/OFF |
| 4. AC INPUT | 11. Battery connection |
| 5. USB port | 12. PV INPUT |
| 6. RS485/CAN port | 13. Fans |
| 7. AC OUTPUT | |

Technical Specification

Model	GUS5KH
Phase	1-phase in / 1-phase out
Rated Power	5000VA/5000W
Dimension DxWxH (mm)	126x322x426mm
Net Weight (kgs)	11.6
AC INPUT	
Rated Voltage	100VAC/110VAC/120VAC
Voltage Range	90VAC - 140VAC \pm 2%
Frequency Range	50Hz: 47Hz-55Hz \pm 0.3Hz / 60Hz: 57Hz-65Hz \pm 0.3Hz
AC OUTPUT	
Rated Voltage	100VAC/110VAC/120VAC (settable) \pm 3%
Frequency	50Hz/60Hz \pm 0.3Hz
Surge Power	10000VA
Efficiency (Peak)	> 93%
Transfer Time	10ms (For Personal Computers); 20ms (For Home Appliances)
Waveform	Pure sine wave
Overload Protection	100%-110% after 5mins, 110%-125% after 10s, over 125% after 5s.
BATTERY	
Battery Voltage	48VDC
Voltage Range	40VDC - 60VDC \pm 0.6VDC
Battery Type	Lead Acid/Flooded/Gel/NCA/Lithium ion
Floating Charge Voltage	54VDC
Overcharge Protection	62VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Power	5200W
MPPT Range @ Operating Voltage	120VDC-450VDC
Maximum PV Array Open Circuit Voltage	500VDC
Maximum Solar Charge Current	0A-80A (Adjustable)
Maximum AC Charge Current	40A
Maximum Charge Current	100A
SYSTEM	
Display	LCD + LED
Cooling	Forced air cooling
Communication Interface	USB, RS485/CAN, Dry contact
OPERATING ENVIRONMENT	
Protection Level	IP21
Humidity	5% to 95% Relative Humidity(Non-condensing)
Altitude	< 3000m
Operating Temperature	-15°C to 55°C
Storage Temperature	-25°C to 60°C

**Power derating 1% every 100m when altitude is over 1000m.

Product specifications are subject to change without further notice.