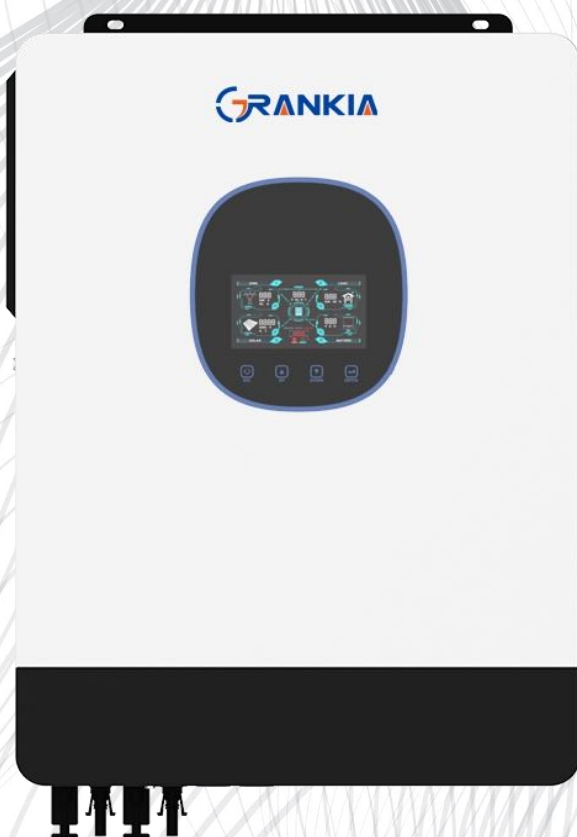


Single Phase Hybrid Solar Inverter

GHS Series 8.2KW - 10.2KW



Key Features

- **Pure Sine Wave Output**

Produces a pure sine wave output, ensuring compatibility with a wide range of appliances, including sensitive electronics.

- **Hybrid Functionality**

It is designed for both on-grid and off-grid applications. It allows users to harness solar energy while still having access to the grid, providing flexibility and reliability in energy supply. In off-grid mode, it can efficiently manage battery storage, ensuring that you have power even during outages.

- **Dual PV Input**

Allows users to connect two separate solar panel arrays. It can enhance flexibility in system design, enabling users to optimize

energy generation by utilizing different panel types or orientations.

- **Dual AC Output**

Enable users to power multiple devices or circuits simultaneously, this allows for efficient distribution of power across different areas of a home or business.

- **Programmable Settings**

Users can customize various settings, such as charging modes, output voltage, and grid connection preferences, to suit their specific energy requirements and optimize performance.

- **Battery-Free Operation**

Allows users to directly utilize solar energy or grid power.

Specification 8.2KW-10.2KW

Model	GHS8.2K	GHS10.2K
PHASE	single phase in / single phase out	
Max. PV INPUT POWER	5400W + 5400W	
Rated Output Power	8200W	10200W
Dimension, D x W x H (mm)	530x390x130	530x390x130
Net weight (Kg)	14.2	14.7
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Max. DC Voltage	360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90VDC~450VDC	
No. of MPP Trackers/Max. Input Current	2/18A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220VAC/230VAC/240VAC	
Output Voltage Range	190 - 253VAC	
Power Factor	>0.99	
Nominal Output Current	35.6A	44.3A
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	98.00%	
MPPT Efficiency	99.90%	
DUAL OUTPUT		
Full Load Power	8200W	10200W
Max. Main Load Power	8200W	10200W
Max. Second Load Power (Battery Mode)	2733W	3400W
DC Cut-off Voltage @ Max. Load	52VDC	52VDC
DC Recover Voltage @ Max. Load	54VDC	54VDC
OFF-GRID OPERATION		
AC INPUT		
AC start-up Voltage / Auto Restart Voltage	120 - 140VAC/180 VAC	
Acceptable Input Voltage Range	90 - 280VAC or 170 - 280VAC	
Frequency	50Hz / 60Hz	
Max. AC Input Current	40A	50A
PV INPUT (DC)		
Nominal DC Voltage/Max. DC Voltage	360VDC/500VDC	
MPPT Voltage Range	60VDC~450VDC	
No. of MPP Trackers/Max. Input Current	1/22A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220VAC/230VAC/240VAC	
Frequency	50Hz / 60Hz	
Output Waveform	Pure Sine Wave	
Efficiency (DC to AC)	94%	

Model	GHS8.2K	GHS10.2K
BATTERY& CHARGER		
Battery Type	Lead-acid or Lithium-ion	
Nominal DC Voltage	48VDC	
Max. Solar Charging Current	160A	
Max. AC Charging Current	140A	
Max. Charging Current	160A	
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Max. DC Voltage	360VDC/500VDC	
MPPT Voltage Range	90VDC~450VDC	
No. of MPP Trackers/Max. Input Current	2/18A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220VAC/230VAC/240VAC	
Output Voltage Range	190 - 253VAC	
Nominal Output Current	35.6A	44.3A
AC INPUT		
AC start-up Voltage / Auto Restart Voltage	120 - 140VAC/180 VAC	
Acceptable Input Voltage Range	90 - 280VAC or 170 - 280VAC	
Frequency	50Hz / 60Hz	
Max. AC Input Current	40A	50A
INTERFACE		
Communication Port	RS232, WiFi, GPRS(optional)	
BMS	RS485	
ENVIRONMENT		
Humidity	0~90% RH (Non-condensing)	
Operating Temperature	0 to 40 °C	
Altitude	0-1000 m	

Product specifications are subject to change without further notice.