

On/Off-Grid Hybrid Solar Inverter 8000W - 12KW

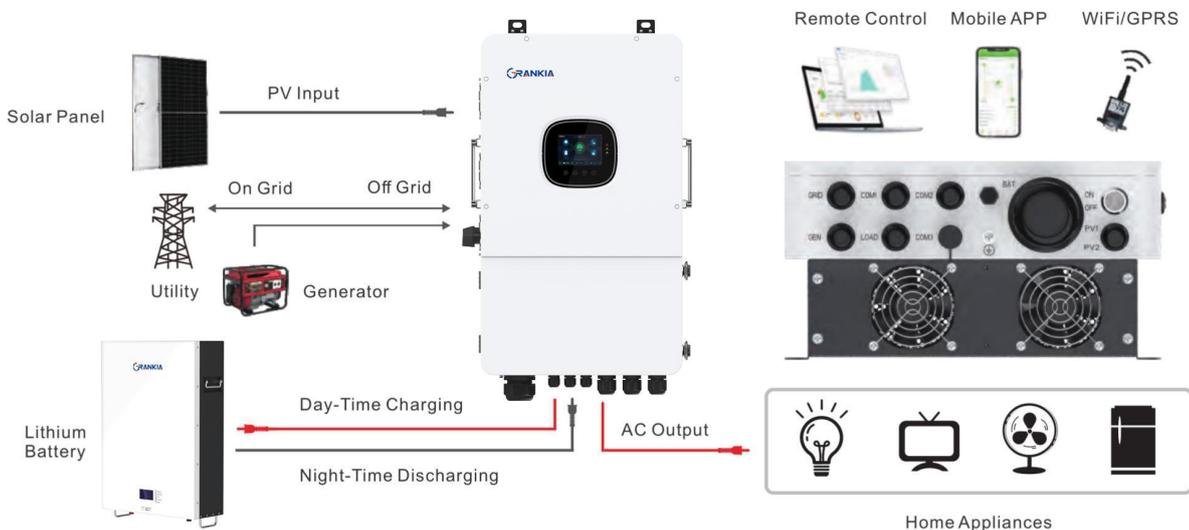
GHE Series ON/OFF GRID Hybrid Solar Inverter is a versatile and robust energy solution, available in models ranging from 8000W to 12kW. It delivers high-quality pure sine wave AC power, ensuring the safety and efficiency of your electrical appliances. It supports single-phase, split-phase, and three-phase configurations in parallel, making it adaptable to various power needs. Equipped with two MPPT solar charge controllers, it can handle up to 22A for two PV input currents, ensuring optimal solar energy harvest. With IP65-rated protection, it is built to withstand harsh environmental conditions, suitable for both indoor and outdoor installations. The inverter is compatible with lithium batteries and features exclusive lithium battery BMS dual activation. Additionally, it has a peak shaving function to help reduce demand charges by minimizing power usage during peak periods.



Product Features

- Pure Sine Wave AC Power Output
- Self-consumption and feed-in to the grid
- Single phase, split phase and three phase in parallel operation
- High efficiency dual MPPT solar charge controller
- Exclusive lithium battery BMS dual activation
- Programmable supply priority for PV, Battery or Grid
- Built-in timer for various mode of ON/OFF operation
- User-adjustable battery charging voltage and current suits different types of batteries
- Time-slot function to save cost with peak valley
- IP65 protection

Product Overview



Technical Specification

Model	GHE8K	GHE10K	GHE12K
Rated Power	8000W	10kW	12kW
Parallel	up to 6 units		
INPUT (AC OR GENERATOR)			
Nominal Voltage	110VAC/120VAC		
Voltage Range	90VAC-140VAC		
Frequency Range	50Hz / 60Hz (Auto sensing)		
OUTPUT			
Nominal Voltage	110V/120V - 220V/240V, Single Phase / Split Phase / Three Phase		
Frequency	50Hz / 60Hz		
Transfer Time	< 8ms		
Waveform	Pure Sine Wave		
EFFICIENCY			
Max. Efficiency	97.50%		
CEC Efficiency	96.50%		
BATTERY			
Battery Type	Lead-acid / Lithium iron / User-defined		
Battery Voltage	48VDC		
Battery Voltage Range	40VDC-60VDC		
Max. PV Charging Current	200A		
Max. AC Charging Current	120A		
Max. Generator Charging Current	60A		
Max. Charging Current	200A		
PV INPUT			
Number of MPPT	2		
Max. PV Array Power	5500W + 5500W	5500W + 5500W	6600W + 6600W
MPPT Range @ Operating Voltage	125-425VDC		
Max. PV Array Open Circuit Voltage	500VDC + 500VDC		
Max. INPUT Current	22A + 22A		
ENVIRONMENT			
Temperature	-20°C ~ 60°C		
Protection Degree	IP65		
INTERFACE			
Communication	RS485/CAN/USB/Dry Contact		
Display	LCD + LED		
MECHANICAL			
Dimension, DxWxH (mm)	750x440x240		
Net Weight (Kg)	42.0		