

European Version, IP20



GV SERIES

GV SERIES OFF-GRID INVERTER

- Adapts to complex grid environments, ensures long-term stable operation, and significantly reduces later maintenance costs.
- MCU+DSP dual-core architecture, dual-core collaboration, as stable as a rock;
- High conversion efficiency design, widely compatible with various types of batteries and system solutions;
- Modern industrial aesthetic appearance, compact structure, balancing practicality and visual quality.



Technical Data

Model	GV-4K5C4L1TF	GV-6K2C4L1EF
AC Input/Output		
Rated Input/Output Active Power (W)	4500	6200
Rated Input/Output Current(A)	19.6	26.9
Max. Continuous AC Passthrough (grid to load) (A)	40	
Peak Power (Off-grid)(A)	2 Times of Rated Power 3S （3s@>150% load; 30s@101%~150% load）	
Rated Voltage(V)	220/230	
Rated Grid Frequency/Range(Hz)	50/60	
Connection Type	L+N+PE	
Total Current Harmonic Distortion (THDi)	<3% (Rated power)	
DC Current Output	<0.5% x Rated current	
Transfer Time (Bypass and inverter)(ms)	10(for UPS), 20(for APL)	
Battery Input Data		
Battery Type	Lead-acid / Lithium Iron Phosphate Battery	
Max Mains/Generator Charging Current (Configurable) (A)	100	
Max. PV Charging Current (Configurable)(A)	120	
Max Hybrid Charging Current (A)	120	
Battery Voltage Range(V)	20-30	40-60
Number of Battery Input	1	
PV String Input Data		
No. of Circuits	1	
Max. PV Open-Circuit Voltage (V)	500	
Start-up Voltage (V)	100	
Rated PV Input Voltage (V)	370	
MPPT Voltage Range (V)	125-450	
Max. PV Input Power (W)	6500	8000
Max. Operating PV Input Current (A)	18	
Max. Input Short-Circuit Current (A)	27	
Efficiency		
Max. Efficiency	93.00%	
MPPT Efficiency	>99%	
General Data		
Operating Temperature Range(°C)	-10~55°C, >45°C Derating	
Permissible Ambient Humidity	5-95%（No condensation）	
Noise Level @ 1m(dB)	<47	
Type of Cooling	Intelligent Air Cooling	
Communication Port	Built-in: RS485/CAN; Optional: WiFi/Bluetooth	
Dimensions(HxWxD)(mm)	413x363x121	
Weight(kg)	8	
Permissible Altitude(m)	<2000	
Ingress Protection (IP) Rating	IP20	