

Off-Grid Solar Inverter

with isolated transformer
3KW~8KW
PF=1



Overview

EA-GF series products are on the basis of green energy use and equipment electricity need for remote area, combing the electricity characteristics of household appliances, communication station equipment and computer peripheral equipment. They have the function of energy conservation and environment protection. They adopt MCU control technique, having various kinds of function such as multi-setting mode, MPPT control, voltage stabilization on line, short-circuit protection, inverter frequency adaptive, output overload, battery charging management, monitoring etc. With display of LCD and LED, all the parameters and running status could be visible. Intelligent monitor is available via RS232 & USB connecting with PC, while remote control via RS485 & SNMP. EA-GF series products are the ideal power supply delivered with excellent performance, high stability, high reliability and high practical applicability.

Features

- Multi-setting
 - ※ PV priority mode or AC priority mode
 - ※ Choose the charging current based on the configured capacity of the battery
- High reliability: Double MCU digital control
 - ※ Independent MPPT (Maximum Power Point Tracking) control microprocessor system
 - ※ Independent inverter microprocessor control system
- Isolated and pure sine wave technology
- LCD+LED display
- Wide input range
- High-speed synchronous conversion
- Friendly alarm system
- Online protection function
- Frequency auto adaptive
- Intelligent No-load auto shutdown technology (optional)
- Intelligent monitoring (RS232, USB, or SNMP card, optional)

Technical Data:

Model	GF3000	GF4000	GF3000	GF5000	GF6000	GF8000
Power	3KW	4KW	3KW	5KW	6KW	8KW
Battery voltage	96Vdc		192Vdc			
Working mode	PV priority / AC priority optional					
PV						
MPPT voltage range	96Vdc – 200Vdc		192Vdc – 400Vdc			
Max. charge current	10-60A		10-40A	10-60A		
PV panels configuration(Suggestion)(Vmp)	120-142Vdc		240-284Vdc			
PV panels configuration(Suggestion)(Imp)	≤60A		≤40A	≤60A		
Conversion efficiency	≥ 98 %					
Display						
Panel indicator	LCD+LED Panel display					
AC mode						
Input voltage range	165Vac- 275Vac					
Input frequency range	40-70 Hz (auto transfer to battery mode, if beyond this range)					
Output voltage precision	220Vac ± 5%					
Input power factor	≥0.8					
Max. efficiency	88% (inverter on)					
Overload	110% transfer to bypass in 255s, 120% go to bypass in 60s, 150% go to bypass in 10s.					
Max. charging current	8A		12A			
Short circuit protection	Electronic limited current output or turn bypass, air breaker protection					
Inverter Mode						
Output voltage	220Vac ± 5%					
Output frequency	50 Hz / 60Hz ± 1% Frequency self-adjusted					
Output power factor	1					
Distortion	≤ 5% Linear load					
PV-AC transfer time	0ms					
Max. efficiency	≥92%					
Overload	110% transfer to bypass, in 255s or shut down, 120% go to bypass or shut down in 60s, 150% go to bypass or shut down in 10s.					
Eco mode (Optional)	When Load < 5%, system will turn to bypass power supply (utility) in 1min					
Short circuit	Electronic limited current output, turn the bypass or system to be automatic shutdown					
Alarm						
AC fails	1/4s; automatic sound elimination after 40s					
Battery low voltage	5/1s					
Overload	1/1s					
Communication (Optional)						
Communication interface	RS232 / USB / RS485 / SNMP					
Dry contact	PV failure, battery low-voltage, overload, bypass, inverter failure, remote start generator dry contact signal					
Others						
Output connection	Terminal blocks					
Surge protection	Optional					
EMC	Accord with EN62040-2:2006;EN61000-3-2:2006; EN61000-3-3:2008					
IP class	IP20					
Ambient temperature	0℃ ~ 40℃					
Ambient humidity	10% ~ 90%(Non Condensed)					
Noise	≤ 50dB					
Working altitude	2000m (Every 100m increase derating 1%)					
Dimension (WxDxH)mm	560 × 265 × 725					
Packing dimension (WxDxH)mm	662 × 360 × 905					
Weight(kg)	76	80	60	67	69	85
Packing weight(kg)	85	89	69	76	78	94

- All Specifications subject to change without notice.
- Custom-made specifications are acceptable.