

OFF-GRID SOLAR INVERTER

10kVA-120kVA(3:3)



Highlights

- Multiple MPPT charger controllers
- Hot-swap MPPT modules for easy maintenance and expansion
- Configurable battery parameters via LCD settings
- Self-regulation for charging voltage and current
- Intelligent AC and PV complementation power supply
- Intelligent staggering power consumption function
- Multiple remote control

MODEL	GF10K	GF20K	GF30K	GF40K	GF60K	GF80K	GF100K	GF120K
Rated power	9 kW	18 kW	27 kW	36 kW	54 kW	72 kW	90 kW	108 kW
Operating mode	AC and PV complementation							
PV INPUT								
Max. input power	25 kW	2 X 25 kW		3 X 25 kW	4 X 25 kW	5 X 25 kW	6 X 25 kW	
Max. input voltage	750 Vdc							
Rated input voltage	500 Vdc							
Start-up voltage	≥(battery voltage + 20) Vdc							
Max. input current	60 A	120 A		180 A	240 A	300 A	360 A	
MPPT voltage range (Full load)	450~550 Vdc							
Number of MPPTs	1 + 1 (reserved)		2 + 1 (reserved)		3 + 1 (reserved)	4 + 2 (reserved)	5 + 3 (reserved)	6 + 2 (reserved)
AC INPUT								
Input voltage	380Vac ±20% (line voltage) , three-phase (rectifier) 380 Vac ±20% (line voltage) three-phase + N + PE (bypass)							
Input frequency	(50 / 60 Hz) ±5Hz							
OUTPUT								
Output voltage	380 / 400 / 415 Vac ±1% (line voltage), three-phase+ N + PE							
Output frequency	(50 / 60 Hz) ±1Hz							
Rated output current	20 A	40 A	60 A	80 A	120 A	160 A	200 A	240 A
Waveform	Sinusoidal							
THD	THDu ≤3% (linear load)							
BATTERIES								
Battery type	Lead-acid battery / Li-ion battery (optional)							
Battery voltage	360 Vdc							
Charging current	15 A by default, settable based on inverter model and battery capacity							
TRANSFER TIME								
PV↔AC	0 ms							
EFFICIENCY								
Max. efficiency	≥91%		≥92%		≥93%			
MPPT efficiency	≥98% (Max.)							
OTHERS								
Protections	Over / under voltage, over / under-frequency, output overload , short-circuit, overtemperature, battery low voltage , overcharge, PV reverse polarity							
Communications	RS232 / RS485 / dry contacts (standard), SNMP / Wi -Fi / GPRS (optional)							
Display	LCD&LED							
Standards	EN 62040-1, EN 62040-2, IEC 62040-2							
IP rating	IP 20							
Operating temperature	0°C~40°C							
Relative humidity	90% (non -condensing)							
Altitude	1000m at rated power (derating 1% for each additional 100 m), Max. 4000 m							
Noise level at 1 m	≤65 dB (varies with loads and temperature)							
Dimensions (W x D x H) (mm)	450 x 840 x 1100		600 x 700 x 1750		960 x 800 x 1700			
Packaged dimensions (W x D x H) (mm)	560 x 940 x 1300		700 x 800 x 1950		1060 x 900 x 1900			
Net weight (kg)	210	223	360	410	495	828	834	840
Gross weight (kg)	230	245	380	430	515	848	854	860

• All specifications are subject to change without notice