

OFF-GRID SOLAR INVERTER

200 W ~ 3000 W

- Pure sine wave solar inverter
- Compact & easy to use
- Output factor 1.0
- Selectable mains input voltage range
- Configurable energy storage priority / power supply priority via LCD setting
- Compatible with generator
- Auto restart when mains or PV is restored
- No PID attenuation damage for solar panels
- Flexible battery management system
- Mobile APP monitoring



SPECIFICATIONS

MODEL	GF500	GF1000	GF2000	GF2500	GF3000	GF200
Rated power	500 W	1000 W	2000 W	2500 W	3000 W	200 W
Operating modes	Energy storage priority / Power supply priority					
PV INPUT						
Max. input power	700 W	1400 W	2800 W	3500 W	3500 W	3500 W
Max. input voltage	60 Vdc	100 Vdc	150 Vdc	150 Vdc	150 Vdc	150 Vdc
Rated input voltage	48 Vdc	80 Vdc	120 Vdc	120 Vdc	120 Vdc	120 Vdc
Start-up voltage	15 Vdc	30 Vdc	60 Vdc	60 Vdc	60 Vdc	60 Vdc
Max. input current	43 A	43 A	43 A	53 A	53 A	53 A
MPPT voltage range (Full load)	16 ~ 48 Vdc	33 ~ 80 Vdc	65 ~ 120 Vdc			
Number of MPPTs	1					
AC INPUT						
Input voltage	Bypass input range: 0 ~ 132 Vac / 0 ~ 264 Vac Rated input voltage: 100 / 110 / 115 / 120 Vac or 200 / 220 / 230 / 240 Vac (2500 W is only for 110 Vac; 3000 W is only for 220 Vac)					
Input frequency	50 / 60 Hz ± 5% / 10% / 15% (settable)					
OUTPUT						
Output voltage	100 / 110 / 115 / 120 Vac ± 2% or 200 / 220 / 230 / 240 Vac ± 2% (settable) (2500 W is only for 110 Vac; 3000 W is only for 220 Vac)					
Output frequency	50 / 60 Hz ± 1% (auto-sensing)					
Power factor	1					
Waveform	Sinusoidal					
THD	THDu ≤ 3% (Linear load)					
BATTERIES						
Battery type	Lead-acid battery (default), AGM / LIT / GEL / Flood battery (optional)					
Battery voltage	12 Vdc	24 Vdc	48 Vdc			
Charging current	5 ~ 50 A (settable) PV charging: 50 A (max.) AC charging: 20 A (max.)			5 ~ 65 A (settable) PV charging: 65 A (max.) AC charging: 30 A (max.)		3 ~ 65 A (settable) PV charging: 65 A (max.) AC charging: 5 A (max.)
TRANSFER TIME						
PV ↔ AC	3 ~ 6 ms (typical), ≤ 10 ms (max.)					
EFFICIENCY						
Max. efficiency (resistive load)	≥ 78%	≥ 82%	≥ 85%	≥ 85%	≥ 85%	≥ 75%
MPPT efficiency	≥ 98% (max.)					
OTHERS						
Protections	Over / under voltage, over / under-frequency, output overload, short-circuit, overdischarge, overcharge, overtemperature, battery low voltage, battery reverse polarity, PV reverse polarity, lightning protections					
Communications	RS232 / USB / RS485 (standard), SNMP / Wi-Fi / GPRS (optional)					
Display	LCD & LED					
Standards	IEC 62040-1, IEC 62040-2, EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4, EN 61000-6-4, EN 62109-1, EN 62109-2					
IP rating	IP 21					
Operating temperature	0°C ~ 40°C					-35°C ~ 40°C
Relative humidity	≤ 93%					
Altitude	≤ 1000 m; Above 1000 m, derating 1% for each additional 100 m; Max.4000 m					
Noise level at 1 m	< 50 dB					
Dimensions (W × D × H) (mm)	365.5 × 442 × 210					
Packaged dimensions (W × D × H) (mm)	455 × 520 × 283					
Net weight (kg)	16.6	19.5	30.4	32.8	38.5	13.4
Gross weight (kg)	18.1	21.0	31.9	34.3	40.0	14.9

● All specifications are subject to change without notice.