

## HYBRID INVERTER (OFF-GRID)

GF1-3K6/6KS2

The GF1 3.6-6KS2 series is an off-grid solar inverter combining economy and high performance, designed for backup power, off-grid, providing uninterruptible power support and ESS applications. This inverter uniquely integrates generator interface, AC coupling and smart load output interface for true versatility. The intuitive operator interface and intelligent monitoring features also make energy management easy and simple. In addition, it can handle high surge loads, and the extremely short on/off switching time ensures that critical loads continue to operate during power outages, increasing the stability and high reliability of system operation.

### Product Benefits

Dual MPPT, supports 182/210 solar panels

Color LCD touch screen with integrated LED light to intelligently display inverter status information

Supports 6 parallel connections, independent ports for generator and smart load connection

Maximum charge and discharge current 125A/125A, with modern aesthetic industrial design, easy to install and simple to use



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INVERTER

Model	GF1-3K6S2	GF1-6KS2
<b>PV Input</b>		
Max. PV Input Power	7200W	12000W
Max. PV Input Voltage	500V	
Min. PV Input Voltage	60V	
MPPT Voltage Range	60V ~ 500V	
Start-up Voltage	70V	
No. of MPPTs/Strings per MPPT	2 / 1	
Max. PV Input Current	18A / 18A	
Max. Short Circuit Current	22A / 22A	
<b>AC Input</b>		
Max. AC Input Power	9200W	
Max. AC Input Current	40A	
Nominal Grid Voltage	L/N/PE, 220/230/240V	
Nominal Grid Voltage Range	0.85 ~ 1.1 Un	
Nominal Grid Frequency	50Hz / 60Hz	
Nominal Grid Frequency Range	45 - 55 / 55-65 Hz	
Nominal Input Current	16.7A	27.3A
<b>AC Output</b>		
Nominal Output Apparent Power	4048VA	7500VA
Nominal Output Power	3680W	6000W
Peak Output/Apparent Power	2 times of rated power, 10s	
Nominal Output Voltage	L/N/PE, 220/230/240V	
Nominal Grid Frequency	50Hz / 60Hz	
Nominal Output Current	16.7A	27.3A
Total Harmonic Distortion Rate	< 3 %	
On/Off-grid Switchover Time	< 10 ms	
<b>Battery</b>		
Battery Type	Li-ion / Lead-acid	
Battery Voltage Range	40 ~ 60V	
Max. Charge/Discharge Current	125A	125A
Communication with BMS	CAN / RS485	
<b>Generator Data</b>		
Max. Input Power	3680W	6000W
Max. Input Current	16.7A	27.3A
Nominal Input Frequency	50Hz / 60Hz	
<b>Efficiency</b>		
Max. Efficiency	97.60%	
Euro Efficiency	96.80%	
<b>Inverter Data</b>		
Dimension (W*H*D)	480*340*190 mm	
Weight	15 kg	
Mounting Method	Wall Mounting	
Protection Rating	IP66	
Cooling	Natural cooling	
Operating Temperature Range	-25°C to +60°C (derating at 45°C)	
Display	LCD + APP	
Noise	< 35 dB	
Operating Attitude	< 2000m	
Operating Humidity	0 ~ 95 %	