

Hybrid Inverter (Off-grid)

Single Phase: 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 design, compatible with 182/210 solar modules
-  Color LCD touchscreen with integrated LED light for intelligent status display
-  Flexible expansion, independent ports for generator & smart load connection
-  125A/125A max charge/discharge current for fast power backup
-  Sleek industrial design, easy to install and operate



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INVERTER

Model	GF1-3K6S2		GF1-6KS2	
PV Input				
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			
AC Input				
Max. AC Input Power	9200W			
Max. Input Current	40A			
Nominal Grid Voltage	L/N/PE, 220/230/240V			
Nominal Grid Voltage Range	0.85 ~ 1.1 Un			
Nominal Grid Frequency	50 / 60Hz			
Nominal Grid Frequency Range	45 - 55 / 55 - 65 Hz			
Nominal Input Current	16.7A		27.3A	
AC Output				
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	50 / 60Hz			
Nominal Output Current	16.7A		27.3A	
Total Harmonic Distortion Rate	< 3 %			
On/Off-grid Switchover Time	< 10 ms			
Battery				
Battery Type	Li-ion			
Battery Voltage Range	40 ~ 60V			
Max. Charge/Discharge Current	125A		125A	
Communication with BMS	CAN / RS485			
Generator Data				
Max. Input Power	3680W		6000W	
Max. Input Current	16.7A		27.3A	
Nominal Input Frequency	50Hz / 60Hz			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.80%			
Inverter Data				
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 %			