

HYBRID INVERTER (OFF-GRID)

GF1-11K/12K/16KS2

The GF1 11-16KS2 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/triple MPPT, supports 182/210 solar panels

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

Supports 10 parallel connections , independent ports for generator and smart load connection

Maximum charge and discharge current 290A/290A, with modern aesthetic industrial design, easy to install and simple to use



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INVERTER

GF1-11K/12K/16KS2

Model	GFI-11KS2		GFI-12KS2		GFI-16KS2	
PV Input						
Max. PV Input Power (W)	22000		24000		32000	
Max. PV Input Voltage (V)			500			
Min. PV Input Voltage (V)			60			
MPPT Voltage Range (V)			60-500			
Start-up Voltage (V)			70			
No. of MPPTs/Strings per MPPT			3/2			
Max. PV Input Current (A)			32/32/32			
Max. Short Circuit Current (A)			40/40/40			
AC Input						
Max. AC Input Power (W)	13800				20700	
Max. AC Input Current (A)	60				90	
Rated AC Input Voltage (V)			L/N/PE, 220/230/240			
AC Input Voltage Range(V)			0.85 - 1.1 Un			
Rated AC Input Frequency (Hz)			50 / 60			
AC Input Frequency Range (Hz)			45 - 55 / 55 - 65			
AC Output						
Rated AC Output Apparent Power (VA)	12100		13200		17600	
Rated AC Output Power (W)	11000		12000		16000	
Output Peak Power	2 times of rated power, 10s					
Rated Output Voltage (V)	L/N/PE, 220/230/240					
Rated Output Frequency (Hz)	50/60					
Rated Output Current (A)	50		54.6		72.7	
THDv, Rated Power (%)	< 3					
On/Off-grid Switchover Time (ms)	< 10					
Generator Data						
Max. Input Power (W)	11000		12000		16000	
Max. Input Current (A)	50		54.6		72.7	
Rated Input Frequency (Hz)	50/60					
Efficiency						
Max. Efficiency(%)	97.60%					
Euro Efficiency(%)	96.80%					
Inverter Data						
Dimension (W*H*D mm)	496*505*225					
Weight (kg)	34					
Mounting Method	Wall Mounting					
Protection Rating	IP66					
Cooling	Forced air cooling					
Operating Temperature Range (°C)	-25°C to +60°C (derating at 45°C)					
Display	LCD + APP					
Noise (dB)	< 45				<55	
Operating Attitude	< 2000m					
Operating Humidity	0 - 95 %					
Battery						
Battery Type	Li-ion / Lead-acid					
Battery Voltage Range (V)	40 ~ 60					
Max. Charge/Discharge Current (A)	220		250		290	
Communication with BMS	CAN / RS485					