LIVOLTEK

HYBRID INVERTER (OFF-GRID)

GF1-8KS2M/12KS2

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

GF1-8KS2/12KS2

Model	GF1-8KS2	GF1-12KS2
PV Input		
Max. PV Input Power (W)	16000	24000
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	2/2	3/2
Max. PV Input Current (A)	32/32	32/32/32
Max. Short Circuit Current (A)	40/40	40/40/40
AC Input		
Max. AC Input Power (W)	13800	
Max. AC Input Current (A)	40	60
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)	8800	13200
Rated AC Output Power (W)	8000	12000
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)	36.4	54.5
THDv,Rated Power (%)	< 3	
On/Off-grid Switchover Time (ms)	< 10	
Generator Data		
Max. Input Power (W)	8000	12000
Max. Input Current (A)	36.4	54.5
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	
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)	190	250
Communication with BMS	CAN / RS485	