



Off-Grid Hybrid Inverter

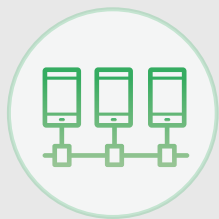
GF1-3K524S2/6K248S2/6K248P2

The LIVOLTEK off-grid hybrid inverter is an important part of the off-grid solar power system. With online and offline monitoring and management platform foreverly inverter, this smart solar inverter can offer continuous power to your home. It can also run directly, with or without batteries, sharing energy from utility and solar to loads alternatively. Integrate multiple protections and fault monitoring to ensure the safety of batteries and equipment.



Features

- Maximum efficiency up to 96%
- Safe, compact, reliable, and cost-effective
- Parallel operation with up to 12 units, support 1 & 3 phase
- Scalable battery up to 5 sets (25 kWh)
- Max. input voltage: 500V, MPPT range: 60~450V
- Support multiple output priority: UTL, SOL, SBU, SUB



Power Expandable and Flexible



Low Standby Power Consumption for Greater Economic Efficiency



Lead-acid/ Lithium Battery



Generator Compatibility

Compatible Products



Residential Lithium Battery



Monitoring System



Wi-Fi Dongle

Specifications

Model	GF1-3K524S2	GF1-6K248S2	GF1-6K248P2
Capacity	3.5kVA/3.5kW	6.2kVA/6.2kW	6.2kVA/6.2kW
Parallel Capability	NO	NO	YES,12 Units
Input			
Nominal Voltage	230V AC		
Acceptable Voltage Range	170-280V AC(For personal Computer); 90-280V AC(For Home Appliances)		
Frequency	50/60 Hz(Auto sensing)		
Output			
Nominal Voltage	220/230V AC±5%		
Surge Power	7000VA	12400VA	12400VA
Frequency	50/60Hz		
Waveform	Pure Sine wave		
Transfer Time	10ms(For personal Computer); 20ms(For Home Appliances)		
Peak Efficiency(PV to INV)	96%		
Peak Efficiency(Battery to INV)	93%		
Overload Protection	5s@≥140%load 10s@100%~140%load	5s@≥140%load 10s@100%~140%load	5s@≥150%load 10s@110%~150%load
Crest Factor	3:1		
Admissible Power Factor	0.6~1(inductive or capacitive)		
Battery			
Battery Voltage	24V DC	48V DC	48V DC
Floating Charge Voltage	27V DC	54V DC	54V DC
OverCharge Protection	33V DC	63V DC	63V DC
Charging Method	CC/CV		
Lithium Battery Activation	YES		
Lithium battery Communication	YES(RS485)		
Solar Charger & Ac Charger			
Solar Charger Type	MPPT		
Max.PV Array Power	4000W	6500W	6500W
Max.PV Array Open Circuit Voltage	500V DC		
PV Array MPPT Voltage Range	60V DC~500V DC		
Max.Solar Input Current	15A	27A	27A
Max.Solar Charge Current	100A	120A	120A
Max.AC Charge Current	80A	80A	80A
Max.Charge Current(PV+AC)	100A	120A	120A
Physical			
Dimensions(D*W*H)	358*295*100 mm	438*295*105 mm	450*300*130 mm
Package Dimensions(D*W*H)	465*380*175 mm	560*375*185 mm	540x390x210 mm
Net Weight	8.2 kg	8.7 kg	12 kg
Communication Interface	RS232+RS485	RS232+RS485	RS232/RS485/Dry-contact
Environment			
Operating Temperature Range	(-10 C ~50 C)		
Storage Temperature	(-15 C ~50 C)		
Humidity	5%to 95%Relative Humidity(Non-condensing)		
Standard Warranty	2 Years		