

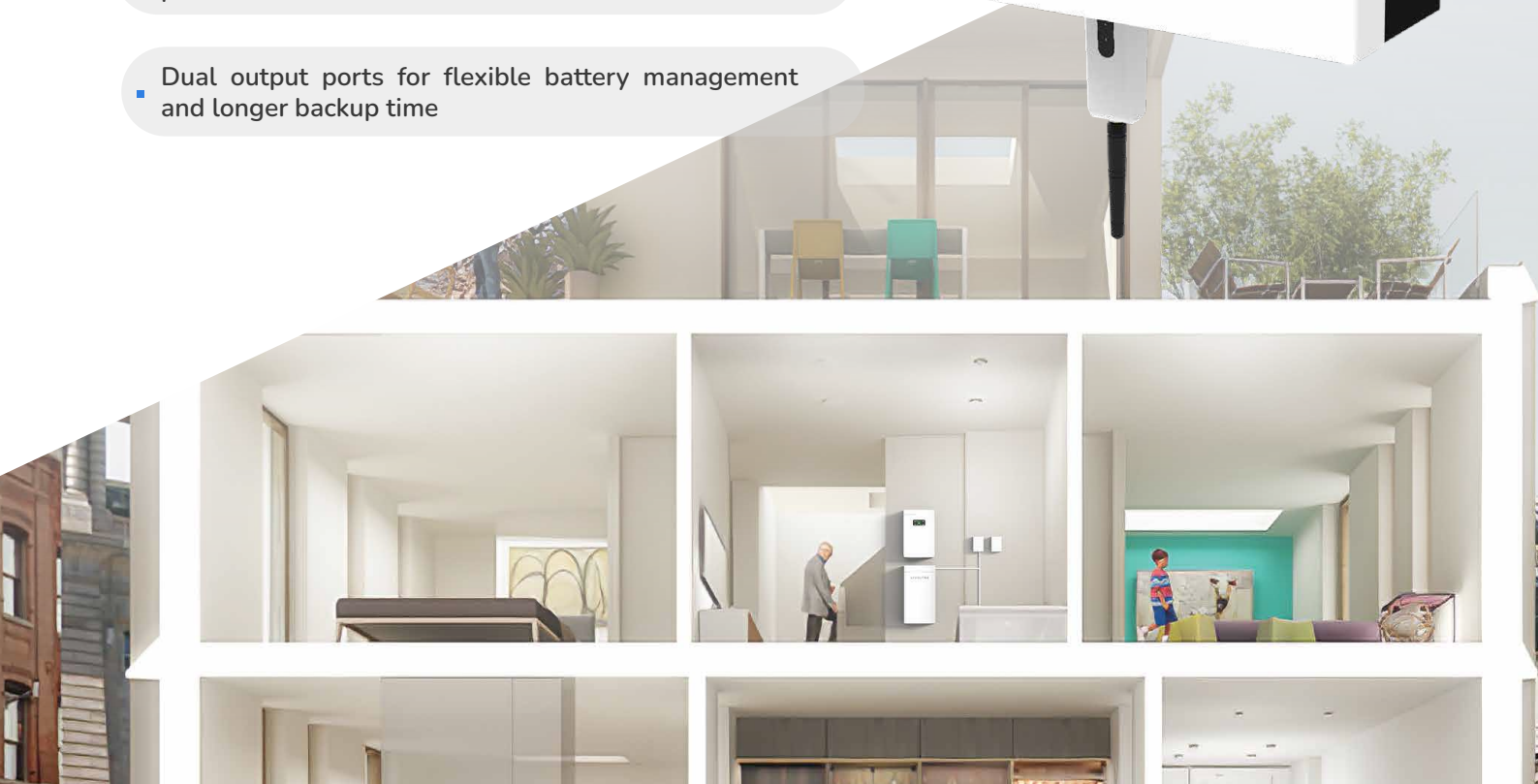
Off-Grid Inverter

GF1-1K512S2/3K524S2/3K524S3/3K524G2/6K248S2/6K248S3/6K248P2/6K248G2

The LIVOLTEK off-grid hybrid inveter is an important part of the off-grid solar power system. With online and offline monitoring and management platform forevery 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
- Support multiple output priority: UTL, SOL, SBU, SUB
- Scalable battery up to 5 sets (25 kWh)
- Max. input voltage: 500V, MPPT range: 60 - 450V
- Parallel operation with up to 12 units, support 1 & 3 phase
- Dual output ports for flexible battery management and longer backup time



Technical Specification

Model	GF1-1K512S2	GF1-3K524S2	GF1-3K524S3	GF1-3K524G2	GF1-6K248S2	GF1-6K248S3	GF1-6K248P2	GF1-6K248G2
Capacity	1.5VA/1.5kW	3.5VA/3.5kW			6.2VA/6.2kW			
Parallel Capability	No						Yes	No
PV Input								
Max. PV Input Power	2000W	4000W			6500W			
Activating battery by PV	Yes							
Max. PV Array Open Circuit Voltage	500VDC							
PV Array MPPT Voltage Range	60 - 500VDC							
Max. Solar Input Current								
No. of MPPTs/Strings per MPPT	1/1							
AC Input								
Input Voltage Waveform	Sinusoidal							
Nominal Voltage	230VAC							
Acceptable Voltage Range	170VAC - 280VAC (for personal computer); 90VAC - 280VAC (for home appliances)							
Frequency	50Hz / 60 Hz (Auto sensing)							
AC Output								
Dual-Port Output	No	No	Yes	Yes	No	Yes	No	Yes
On Grid and Off Grid	No	No	No	Yes	No	No	No	Yes
Nominal Voltage	220 / 230 VAC ± 5%							
Surge Power								
Frequency	50Hz / 60Hz							
Waveform	Pure Sine Wave							
Transfer Time	10ms (for personal computer); 20ms (for home appliances)							
Peak Efficiency(PV to INV)	96%							
Peak Efficiency(BAT to INV)	93%							
Overload Protection	5s@>=140% load, 10s@110% - 140% load							
Crest Factor	3 : 1							
Admissible Power Factor	0.6 - 1 (inductive or capacitive)							
Battery & Charger								
Battery Type	Lead-acid & Lithim Battery							
Battery Voltage	12VDC	24VDC			48VDC			
Floating Charge Voltage	13.5VDC	27VDC			54VDC			
OverCharge Protection	16.5VDC	33VDC			63VDC			
Charging Method	CC / CV							
Lithium Battery Activation	Yes							
Lithium Battery Communication	Yes (RS485)							
Solar Charger Type	MPPT							
Max. Solar Charge Current	100A	100A			120A			
Max. AC Charge Current	60A	80A			80A			
Max. Charge Current(PV+AC)	100A	100A			120A			
General Data								
Dimensions(W*H*D mm)	330*278*98	358*295*100			438*312*122		450*300*130	
Package Dimensions(W*H*Dmm)	400*365*174	465*380*175			560*390*210		540*390*210	
Net Weight	3.8kg	8.2kg			11kg		12kg	
Protection Degree	IP21							
Cooling	Fan							
Display	LCD + APP							
Operating Temperature Range	-10°C - 50°C							
Storage Temperature	-15°C - 50°C							
Humidity	5% - 95% Relative Humidity (Non-condensing)							