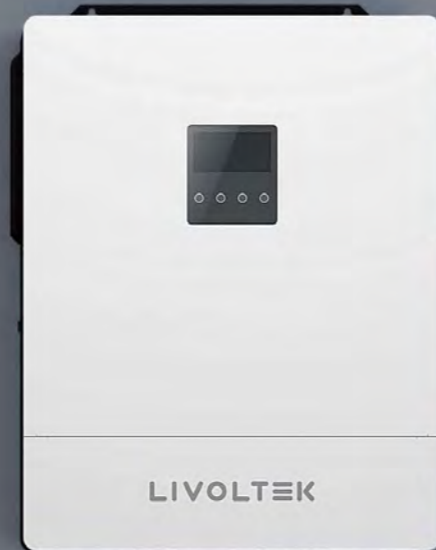


## Off-grid Inverter

GF1-3K5S3/6K2S3D

The GF1 series is a single-phase off-grid solar inverter designed for backup power, energy storage, and uninterrupted electricity. It features a high-efficiency MPPT charge controller, supports parallel operation for three-phase output, and offers flexible battery compatibility. The compact design includes a removable dust filter and enables real-time monitoring via dual communication interfaces and a mobile app.



### Product Benefits

- Maximum input current of 32A per PV string.
- WiFi + local Bluetooth communication with real-time APP monitoring.
- Supports up to 1.5 times PV overmatching and 1.5 times overload capability on the AC (off-grid) side.
- Supports parallel connection of up to 6 units, with three or more units capable of forming a three-phase off-grid output.

## Off-grid Inverter

GF1-3K5S3/6K2S3D

INVERTER

Model	GF1-3K5S3D	GF1-6K2S3D
<b>PV Input</b>		
Max. PV Input Power	5200W	9300W
Max. Open Circuit Voltage	500V	
MPPT Voltage Range	60V ~ 450V	
No. of MPPTs/Strings per MPPT	1 / 1	1 / 2
Max. PV Input Current	18A	32A
Max. Short Circuit Current	25A	40A
<b>AC Data</b>		
Nominal Output Active Power	3500W	6200W
Nominal Grid Voltage	L/N/PE, 220/230V	
Nominal Grid Frequency	50Hz / 60Hz	
Peak Power (Off-Grid)	1.5 times of rated 5s	
Transfer Time	10ms Typical, 20ms Max	
Max. AC Bypass Output Current	40A	
Adjustable Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)	
<b>Battery Data</b>		
Battery Type	Li-ion / Lead-acid	
Battery Voltage Range	40 ~ 60V	
Max. Charge Current	75A	120A
Max. Solar Charge Current	75A	120A
Max. AC Charge Current	75A	120A
Lithium Battery Charging Strategy	Self-adaption to BMS	
Number of Battery Inputs	1	1
<b>Efficiency</b>		
Max. Efficiency	93.0%	
MPPT Efficiency	> 99%	
<b>General Data</b>		
Dimension (W*H*D)	344*438*133 mm	
Weight	10 kg	
Number of Units in Parallel	1 ~ 6 pcs	
Mounting Method	Wall Mounting	
Protection Rating	IP20	
Operating Temperature Range	-10°C to +50°C (derating at 45°C)	
Self-consumption Power	< 50W	
Operating Attitude	< 2000m	
Operating Humidity	5 ~ 95 %	