



## LIVOLTEK Off-Grid Inverter Single Phase



### High Performance

The GF1 series is a multi-function inverter, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support and it can achieve a up to 6 units of connection in parallel operation with maximum 48KW output power.



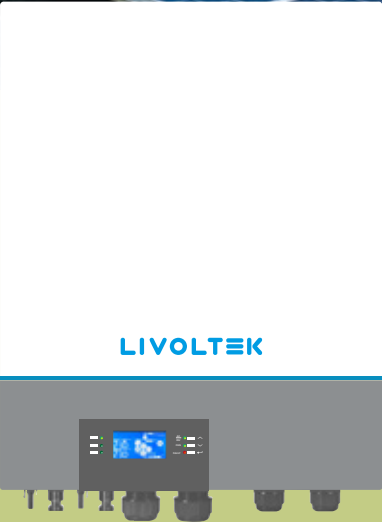
### Independent from The Grid

Flexible working modes with settable charge and load power priority. Support generator as input terminal. With a combination of PV modules, battery (lead acid and lithium-ion), LIVOLTEK off grid inverter aim to work independently from the grid.



### Easy to Monitor and Service

LIVOLTEK design its own web-portal and APP for a much more convenient inverter data observation and system maintenance.



### Features

- Pure sine wave inverter
- Supports USB On-the-Go function
- Built-in anti-dusk kit
- Detachable LCD control module with multiple communication ports for BMS (RS485, CAN-BUS, RS232)
- Configurable input voltage ranges for home appliances and personal computers via LCD control panel
- Configurable AC/PV output usage timer and prioritization
- Configure battery charging current based on applications via LCD Panel
- Compatible to utility mains or generator power
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel option for up to 6 units
- Lower cost, fast return on investment.

### Specifications

Model	GF1-6.5K(LV)	GF1-8K
Input		
Voltage	120Vac	230Vac
Selectable Voltage Range	90-140Vac(For personal computers) 80-140Vac(For home appliances)	170-280Vac(For personal computers) 90-280Vac(For home appliances)
Frequency Range	50HZ/60HZ(Auto-sensing)	
Output		
AC voltage Regulation (Batt. Mode)	120Vac+/-5%	230Vac+/-5%
Surge Power	13000VA	16000VA
Efficiency	91%	93%
Transfer Time	15ms(For personal computers) 20ms(For home appliances)	
Waveform	Pure sine wave	
DC Voltage(optional)	12Vdc+/-5% 100w	
Battery		
Battery Type	Lead-acid/lithium ion	
Battery Voltage	48Vdc	
Floating Charge Voltage	54Vdc	
Overcharge Protection	66Vdc	
BMS Communication	CAN RS-485/RS-232	
Solar Charger&AC Charger		
Solar Charger Type	MPPT	
Max. PV Array Power	7920W (3960*2)	8000W(4000w*2)
Mppt Range@Operating Voltage	90-230Vdc	90-450Vdc
Max. Input Current	18A*2	18A*2
Max. PV Array Open Circuit Voltage	250Vdc	500Vdc
Max. Solar Charge Current	120A	
Max. Ac Charge Current	120A	
Max. Charge Current	120A	
General Data		
Dimension D*W*H(mm)	147.4x432.5x553.6	
Rated Power	6500VA/6500W	8000VA/8000W
Net Weight (KGS)	18.4	
Communication Interfaces	USB/RS232/RS485/WIFI/Dry contact	
Humidity	5% to 95% relative humidity (Non-condensing)	
Operating Temperature	-10 ℃ to 50 ℃	
Storage Temperature	15 ℃ to 60 ℃	
Parallel Capability	yes up to 6pcs	
Standard		
Safety	UL	CE