

Single-Phase Off-Grid Energy Solution

All in one

GF5KSL Series

- Stacking design for easy installation
- Module plug-and-play, automatic recognition
- IP20 system protection rating
- Flexible expansion of battery capacity



Lithium-ion Battery Module

Battery Model	5KWH					
General						
Cell technology	LiFePO4					
Energy capacity	5.12kWh					
Maximum expandable number	6					
Scalable capacity range	5.12kWh~30.72kWh					
Maximum charging power	3.84kW					
Maximum discharging power	5.02kW					
Max. charging current	50A					
Max. discharge current	100A					
Operating temperature	-20~+65°C					
Humidity	5~95%RH(Non-condensing)					
Communication interface	485 and CAN					
Connection method	Floor-mounted					
IP rating	IP20					
Certification	IEC62619, IEC 60730, UN38.3, IEC 62040-1, ROHS2.0, VDE 25010-50					
System Components						
Model	GF5KSL Series					
Number of battery module	1	2	3	4	5	6
Battery capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.60kWh	30.72kWh
Battery system model	5kWH					
Number of inverter	1					
Inverter model	GF5K48H-S					
Rated power	5000W					
Dimension(WxDxH)(mm)	600x450x340	600x450x510	600x450x680	600x450x850	600x450x1020	600x450x1190
Net weight(kg)	70	120	170	220	270	320
Cooling type	Fan cooling					
Maximum altitude	400m(Altitude: < 1000 m, above 1000m, derating 1% for each additional 100m)					
Operating temperature	-10°C ~ +50°C					
Operating humidity	5%~95%RH(Non-condensing)					
Display	LCD					
Installation method	Floor-mounted					

Inverter Specification

MODEL	GF5K48H-S
Rated power	5000VA/5000W
AC input	
Rated input voltage	230VAC
Input voltage range	170~280VAC PC 90~280VAC home application
Rated input frequency	50/60Hz self-adapting
Input frequency range	40~65Hz
Rated input current	32A
Max. input current	40A
AC output	
Rated AC output voltage	230VAC±5%
Output settable voltage	220V/230V/240V
Output settable frequency	50Hz/60Hz
Rated AC output current	21.70A
Overload capacity	10s@110%~150% rated load; 5s@≥150% rated load; 100ms@≥200% rated load
THDU	<5%, linear load; <10%,non-linear load
Efficiency(peak value)	93%
Surge power	10000VA, 5 cycles
Switching time	10ms
Battery	
Battery type	Lead-acid battery/lithium battery
Rated voltage	48VDC
Charging voltage	54VDC(default), 48~58.4VDC settable
Overcharge protection voltage	60.5VDC
Rated discharge current	113.7A
PV/AC charging	
PV charging	MPPT
Max. PV plate power	6000W
Max. PV plate open circuit voltage	450VDC
MPPT operation range voltage	120~430VDC
Max. PV input current	27A
Max. PV charging current	100A
Max. AC charging current	100A
Max. battery charging current	100A
Others	
Dimension (WxDxH)(mm)	342x122x471
Net weight(kg)	14
Operating environment	-10°C ~ 50°C
IP rating	IP20
Protections	Input over/under voltage protection, input over/under frequency protection, output overload, output short-circuit, radiator over-temperature protection, fan fault detection etc.
Communication interfaces	USB/RS232/RS485, dry contact, WiFi(optional)