

GE-F120-2H2



High Voltage All-In-One Hybrid ESS GE-F120-2H2 (50KW/120KWh)

- Rated power operation the maximum temperature of the battery is less than 35°C.
- Suitable for high rate cyclic charging and discharging scenarios.
- Combustible gas, smoke and temperature detection, system active exhaust, and fire alarm.
- All in One integrated technology, contain pcs, inverter, Battery (BMS) and EMS, power supply redundancy design, support black start function, Off grid operation,etc.
- Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution.
- Supports battery expansion, with a maximum capacity of 1200KWh.

Technical Data

Model	GE-F120-S50
System Specification	
Nominal Output Power/UPS Power (W)	50000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three phase
Number of parallel	6
Energy Configuration (kWh)	122.8
Dimension (W x D x H, mm)	1764x1050x2250
Weight Appr. (kg)	1980
AC Output Rated Current (A)	75.8
Battery Operating Voltage (V)	500 ~ 700
Max. charging/discharging efficiency	91%
Battery Chemistry	LiFePO4
IP Rating of Enclosure	IP55
Installation Style	Floor-Mounted
Warranty	10 years
Inverter Technical Specification	
Max. PV Input Power (W)	65000
Max. PV Input Current (A)	36+36+36+36
Rated PV Input Voltage (Vdc)	600
Start Up DC Voltage (Vdc)	180
MPPT Voltage Range (Vdc)	150-850
Max. PV Short-circuit Current (A)	55+55+55+55
Number of MPPT	4
Peak Power (off grid)	1.5 time of rated power, 10s
Power Factor	0.8 leading to 0.8 lagging
THD	<3%
DC injection current (mA)	<0.5In
Display	LCD
Operating Temperature Range (°C)	-40°C~60°C (>45°C derating)
Relative Humidity	15%~85% (No Condensing)
Dimension (W/D/H, mm)	527*294*894
Inverter Communication	CAN, RS485, WIFI, ETH
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
Max. Efficiency	97.6%
MPPT Efficiency	99.9%
Battery Technical Specification	
Battery Module Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	5.12
BMS Communication	CAN
Battery Module Dimension (W*D*H mm)	440x570x133
Battery Module Weight (kg)	44
Operating Temperature Range	Charge: 0°C~55°C / Discharge: -20°C~55°C
Cycle Life	≥6000 (@25°C±2°C, 0.5C/0.5C, 70%EOL)
Battery Module Certification	UN38.3, IEC62619, IEC61000