

# 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 120KWh

# Technical Data

Model	GE-F120-2H2
<b>System Specification</b>	
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	10
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
<b>Inverter Technical Specification</b>	
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)	<0.5%In
Display	LCD
Operating Temperature Range (°C)	-40~60( >45°C derating)
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W x D x H,mm)	527x294x894
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%
<b>Battery Technical Specification</b>	
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: 0~55°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

## ✧ Battery expansion



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