

# GE-F60



Rated power operation the maximum temperature of the battery is less than 40°C



Suitable for high rate cyclic charging and discharging scenarios



Combustible gas, smoke and temperature detection, system active exhaust, and fire alarm



BMS integrated technology, 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 360KWh

Model		GE-F60
<b>Main Parameter</b>		
Cell Chemistry		LiFePO4
Module Energy (kWh)		5.12
Module Nominal Voltage (V)		51.2
Module Capacity (Ah)		100
Battery Module Qty In Series (Optional)		12
System Nominal Voltage (V)		614.4
System Operating Voltage (V)		480~700
System Energy (kWh)		61.44
System Usable Energy (kWh) <sup>1</sup>		55.29
Rated DC Power		61.44
Charge/Discharge <sup>2</sup> Current (A)	Recommend	50
	Nominal	100
	Peak Discharge (2 mins, 25°C)	125
Working Temperature (°C)	Charge: 0~55/Discharge: -20~55	
Status Indicator	Yellow: Battery High Voltage Power On Red: Battery System Alarm	
Communication Port	CAN2.0/ RS485	
Humidity	5%~85%RH	
Altitude	≤2000m	
IP Rating of Enclosure	IP55	
Dimension (W/D/H,mm)	735*1045*2235	
Weight Approximate (kg)	1010	
Installation Method	Floor-Mounted	
Storage Temperature (°C)	0~35	
Operating Temperature (°C)	-30~45(>45 derating)	
Recommend Depth of Discharge	90%	
Cycle Life	25±2°C,0.5C/0.5C, EOL70%≥6000	
Warranty <sup>3</sup>	10 years	
Certification	UN38.3/CB/CE/CEC/IEC62040	

- DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- The current is affected by temperature and SOC.
- The warranty is due whichever reached first of warranty period or life cycle power.
- Made in China.

### Typical application cases

#### System Expansion

MAX: 50kW/360kWh



#### System Expansion

MAX: 500kW/600kWh

(Off-grid)



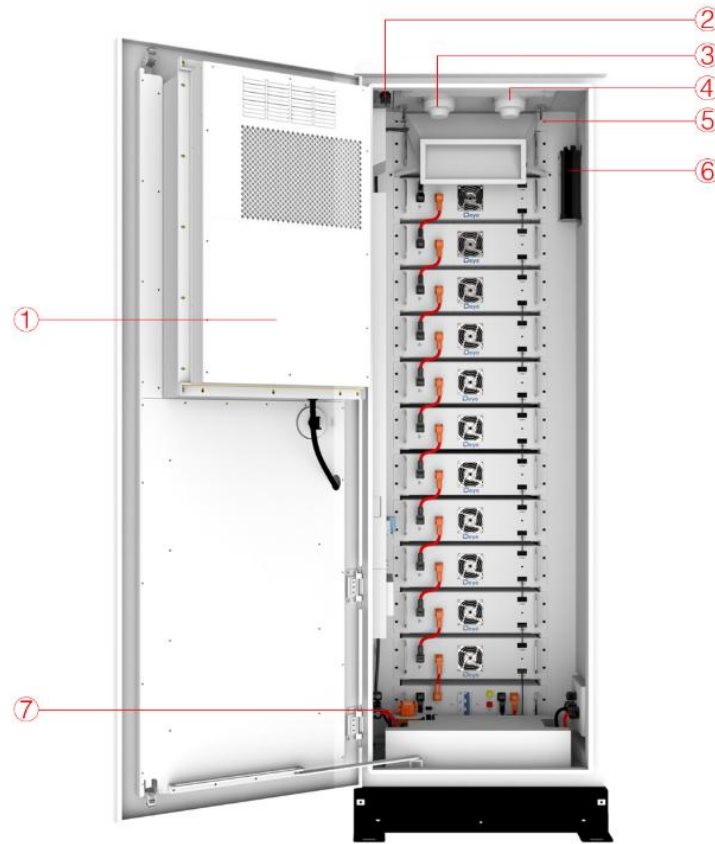
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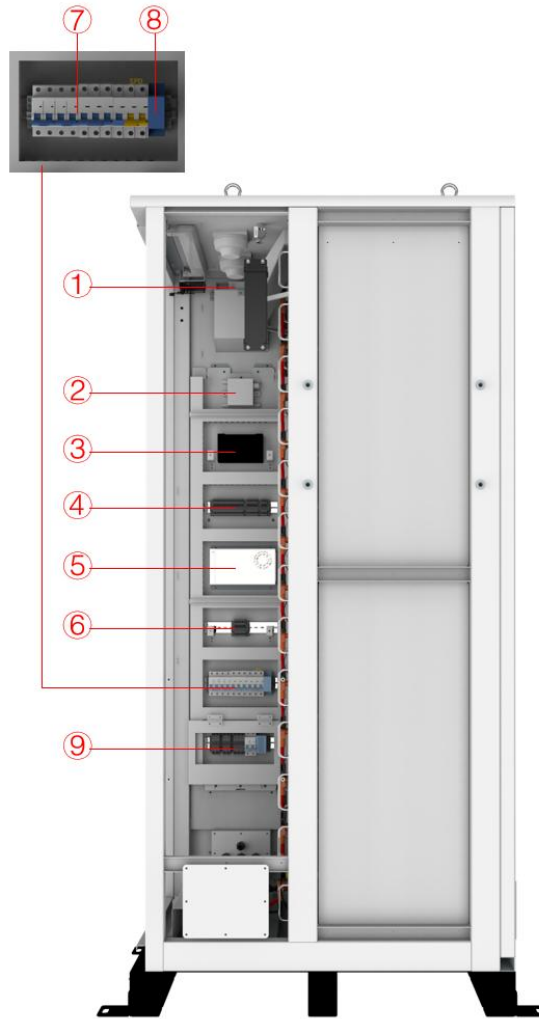
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The AC side of the inverter can be parallel with ten machines

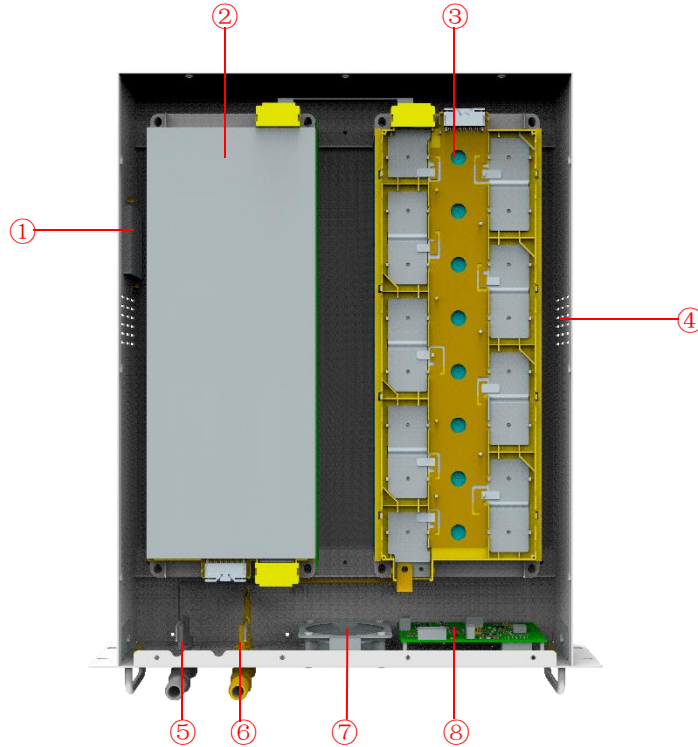


① Air conditioner	Cooling the BESS.
② Travel switch	When the BESS is detected to be on fire, aerosol is emitted to extinguish the fire. Check whether the BESS's door is closed.
③ Smoke detector	A device used to detect smoke in a fire and sound an alarm when smoke is detected.
④ Heat detector	A device used to measure temperature and sound an alarm if it detects excessive temperature.
⑤ Fire suppression water pipe	Fire suppression and cooling.
⑥ Aerosol Fire Suppression Device	When the BESS is detected to be on fire, aerosol is emitted to extinguish the fire.
⑦ Manual service disconnect	In order to protect the safety of technicians servicing in high voltage environments or respond to sudden events, the connection of the high voltage circuit can be quickly separated.

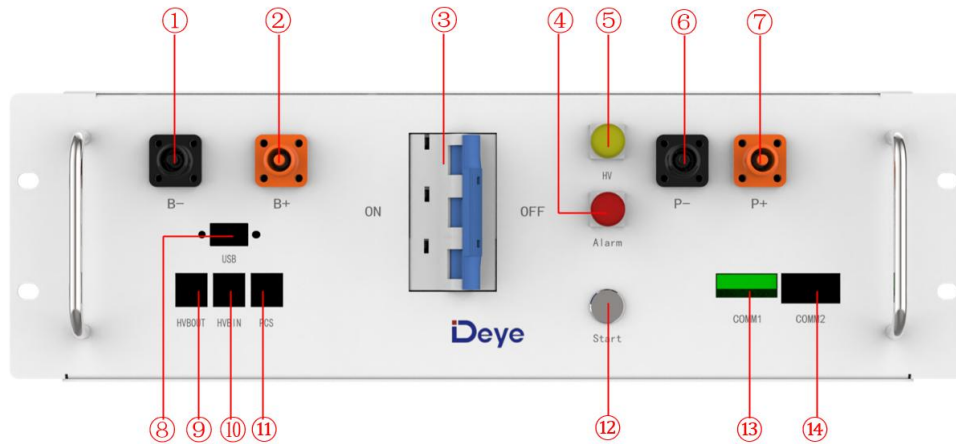


① Fan	Emission of combustible gas
② Combustible gas sensor	Detect combustible gases
③ Serial relay	Control system
④ Terminal line	For connecting cables
⑤ Switching Mode Power Supply	Power source
⑥ Combustible gas sensor	Detect combustible gases
⑦ Miniature circuit breaker	Controlled power-on and power-off
⑧ Water immersion sensor	Check the ESS for water leakage
⑨ Terminal line	Connect external cables





①Aerosol fire extinguishing device	When the pack is detected to be on fire, aerosol is emitted to extinguish the fire.
②Battery module	Provides electrical energy storage and output
③CCS	Cells Contact System
④Air inlet	Cold air inlet
⑤Battery negative-	/
⑥Battery positive+	/
⑦Fan	Promote internal and external air flow
⑧BMU	Battery monitoring



① B-	Connection position of the common negative pole of the battery
② B+	Connection position of the common positive pole of the battery
③ Air switch	Used to manually control the connection between the battery rack and external devices
④ ALRM light indicator	Battery system fault alarm indicator
⑤ HV light indicator	High-voltage hazard indicator
⑥ PCS-	Connection position of PCS negative pole
⑦ PCS+	Connection position of PCS positive pole
⑧ USB	BMS upgrade interface and storage expansion interface
⑨ OUT COM	Connection position with next GE-F-PDU communication output
⑩ IN COM	Connection position with previous GE-F-PDU communication input
⑪ PCS COM	Communication interface with charging and discharging equipment
⑫ START	A start switch of 12VDC power inside the high-voltage control box
⑬ COMM1	Communicative connection with the cabinet
⑭ COMM2	Communicative connection with the first battery module; and providing 12VDC power for the first battery module.