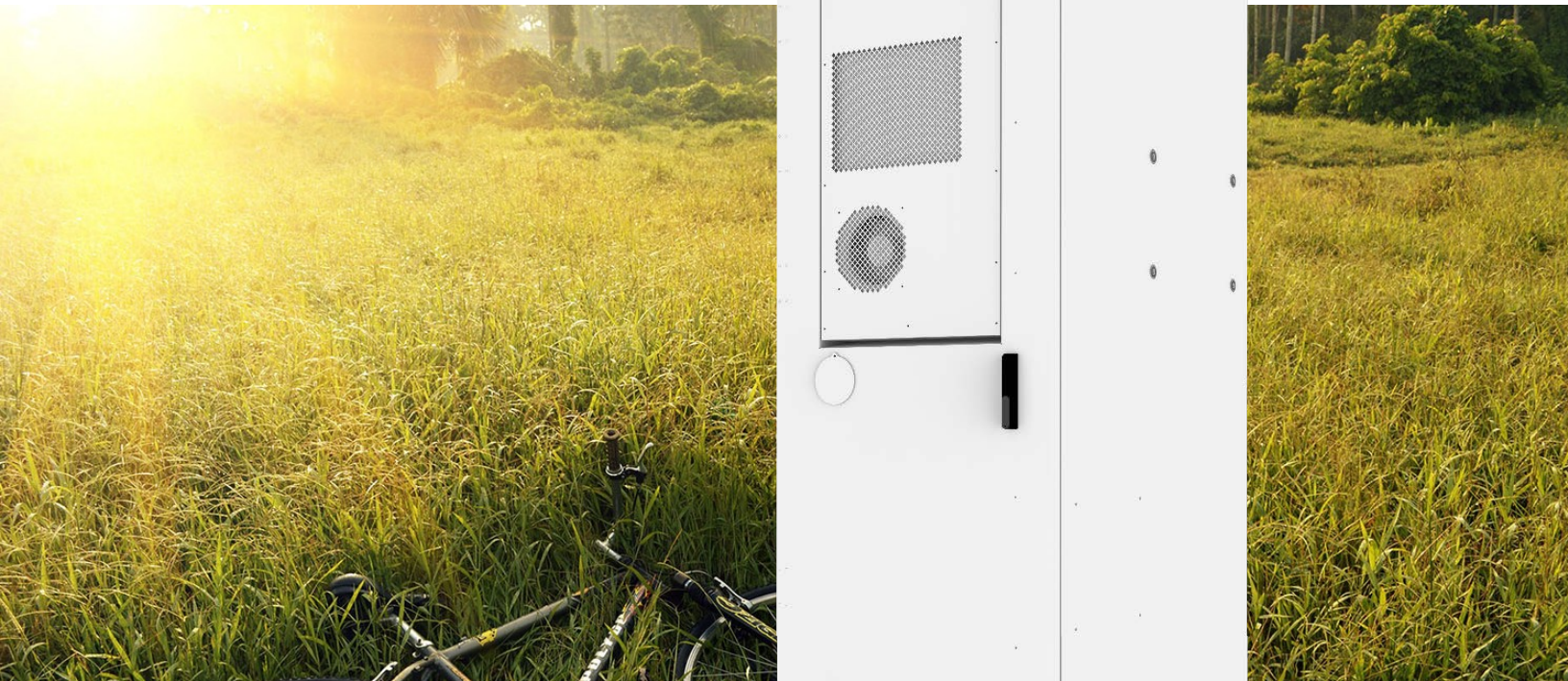


# GE-F60



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



EMS, hybrid inverter and 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)                 | 500~750  |        |
| System Energy (kWh)                          | 61.44  |        |
| System Usable Energy (kWh) <sup>1</sup>      | 55.29  |        |
| Rated DC Power                               | 61.44  |        |
| Charge/Discharge <sup>2</sup><br>Current (A) | Recommend  | 50     |
|  | Nominal  | 100    |
|  | Peak Discharge<br>(2 mins, 25°C)                                   | 125    |
| Working Temperature (°C)                     | Charge: 0~55/Discharge: -20~55                                     |        |
| Status Indicator                             | Yellow: Battery High Voltage Power On Red:<br>Battery System Alarm |        |
| Communication Port                           | CAN2.0/ RS485  |        |
| Humidity                                     | 5%~85%RH   |        |
| Altitude                                     | ≤2000m   |        |
| IP Rating of Enclosure                       | IP55   |        |
| Dimension (W/D/H,mm)                         | 735x1045x2235  |        |
| Weight Approximate (kg)                      | 1010   |        |
| Installation Location                        | Rack Mounting  |        |
| Storage Temperature (°C)                     | 0~35   |        |
| Recommend Depth of Discharge                 | 90%  |        |
| Cycle Life                                   | 25±2°C,0.5C/0.5C, EOL70%≥6000                                      |        |
| Warranty <sup>3</sup>                        | 10 years   |        |
| Certification                                | UL1973 /UL9540A/UN38.3   |        |

1. DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

2. The current is affected by temperature and SOC.

3. The warranty is due whichever reached first of warranty period or life cycle power.

4. Made in China.

## Typical application cases

### System Expansion

MAX: 50kW/360kWh



### System Expansion

MAX: 500kW/600kWh



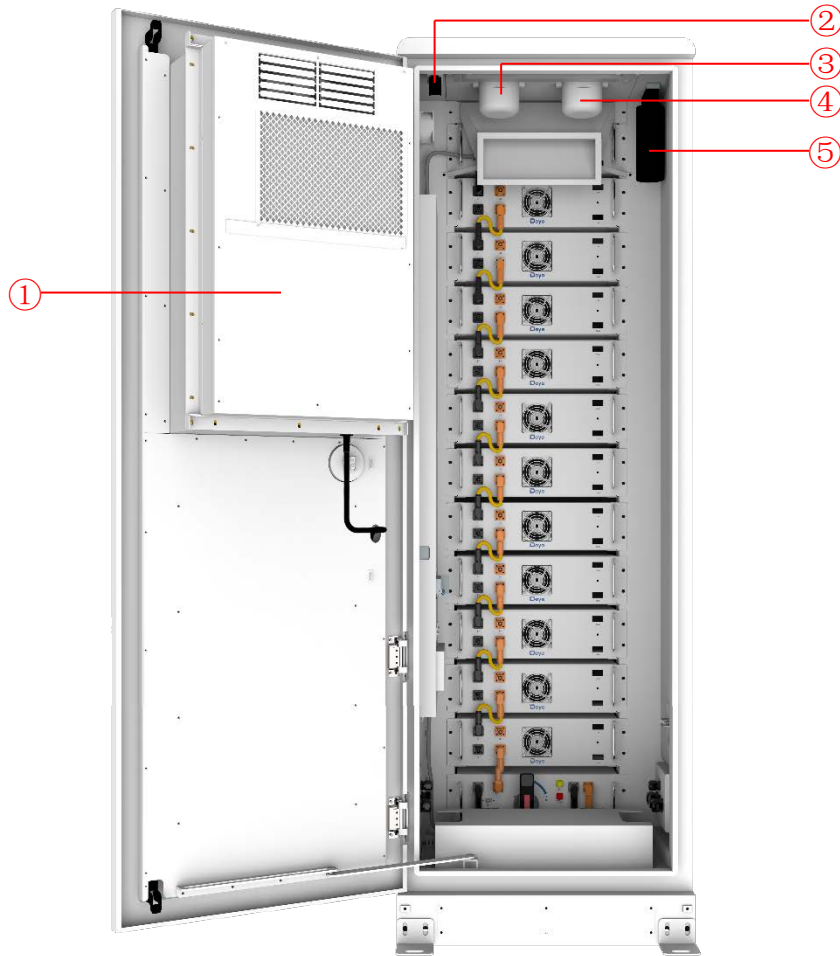
The AC side of the inverter can be parallel with ten machines

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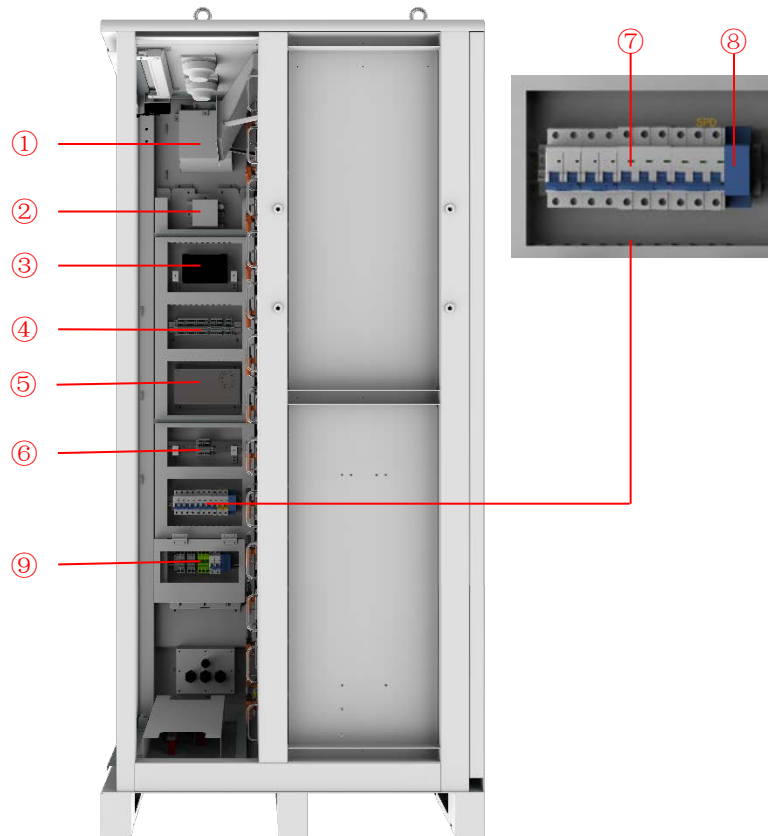
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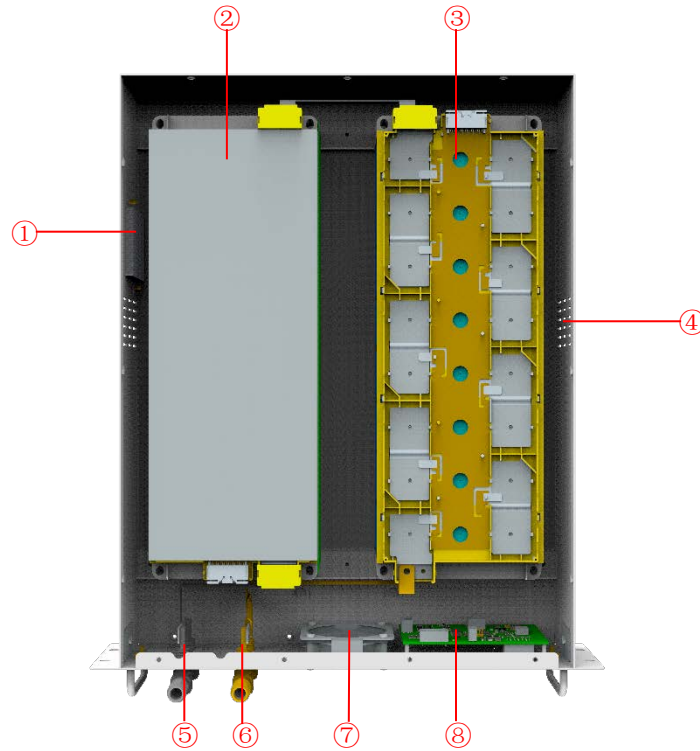


|                                    |  |
|------------------------------------|--|
| ①Air conditioner                   | Cooling the ESS system   |
| ②Travel switch                     | Check whether the ESS system door is closed.   |
| ③Smoke detector                    | A device used to detect smoke in a fire and sound an alarm when smoke is detected.           |
| ④Heat detector                     | A device used to measure temperature and sound an alarm if it detects excessive temperature. |
| ⑤Aerosol fire extinguishing device | When the ESS is detected to be on fire, aerosol is emitted to extinguish the fire.           |

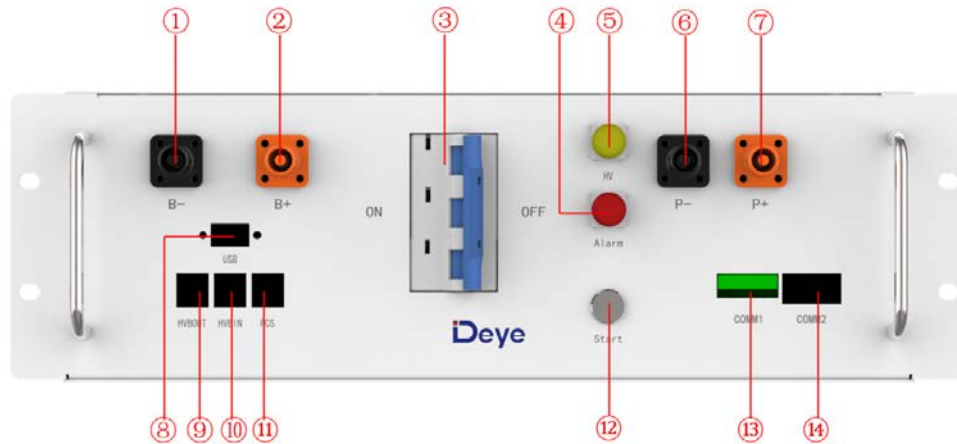


|                               |                                   |
|-------------------------------|-----------------------------------|
| ① Fan                         | Emission of combustible gas       |
| ② Combustible gas sensor      | Detect combustible gases          |
| ③ Serial relay                | 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  |



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