GE-F60

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

EMS,hybrid inverter and BMS integrated technology, power supply redundancy design, support black start function,Off grid operation,etc

Suitable for high rate cyclic charging and discharging scenarios

Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution

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

Supports battery expansion, with a maximum capacity of 360KWh

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Technical Data

Model		GE-F60
Main Parameter		
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) [1]		55.29
Rated DC Power		61.44
Charge/Discharge [2] Current (A)	Recommend	50
	Nominal	100
	Peak Discharge (2 mins, 25℃)	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)		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 [3]		10 years
Certification		IEC62619、IEC61000、IEC62040、VDE

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.

SOLARONE.RO SISTEME FOTOVOLTAICE

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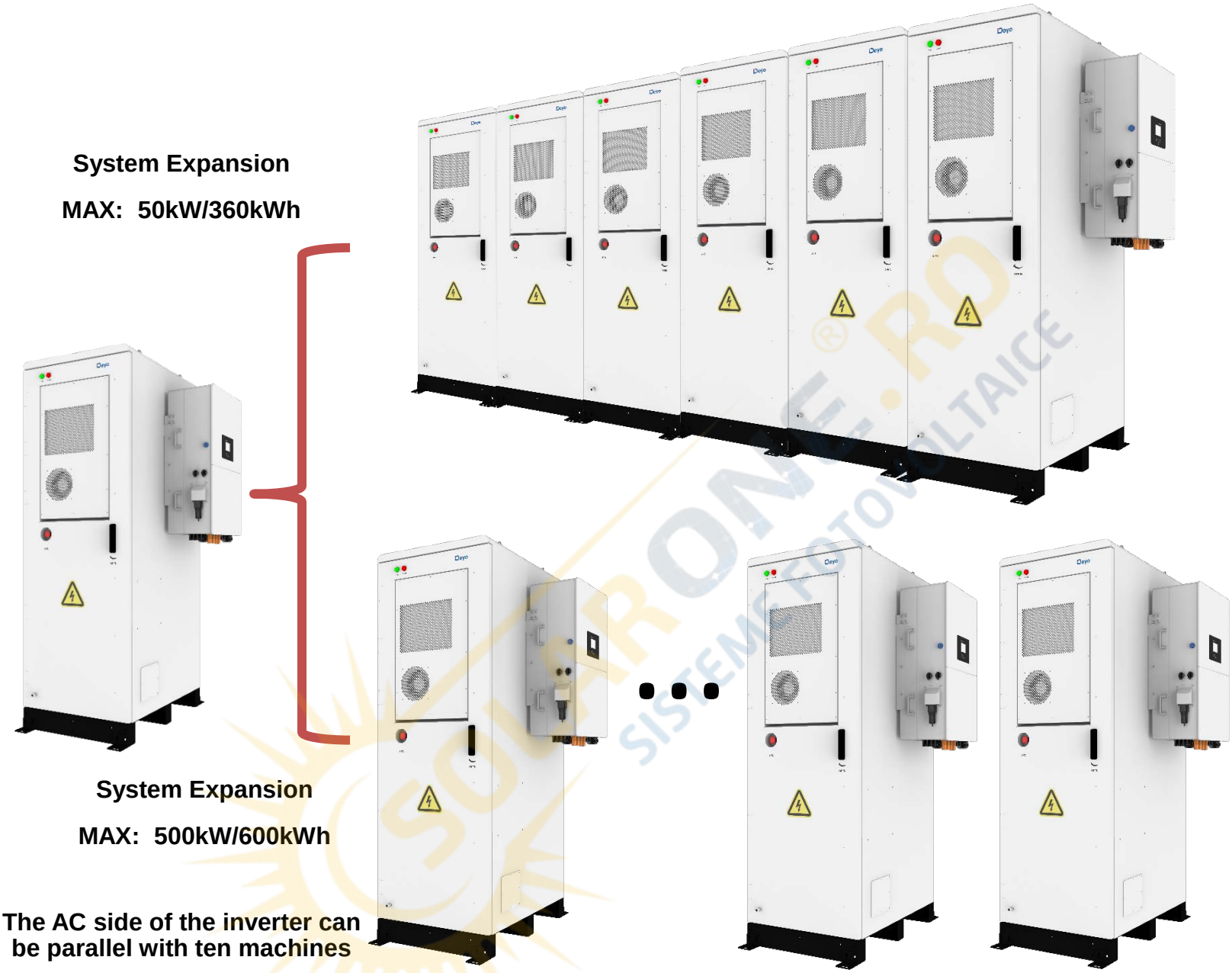
Typical application cases

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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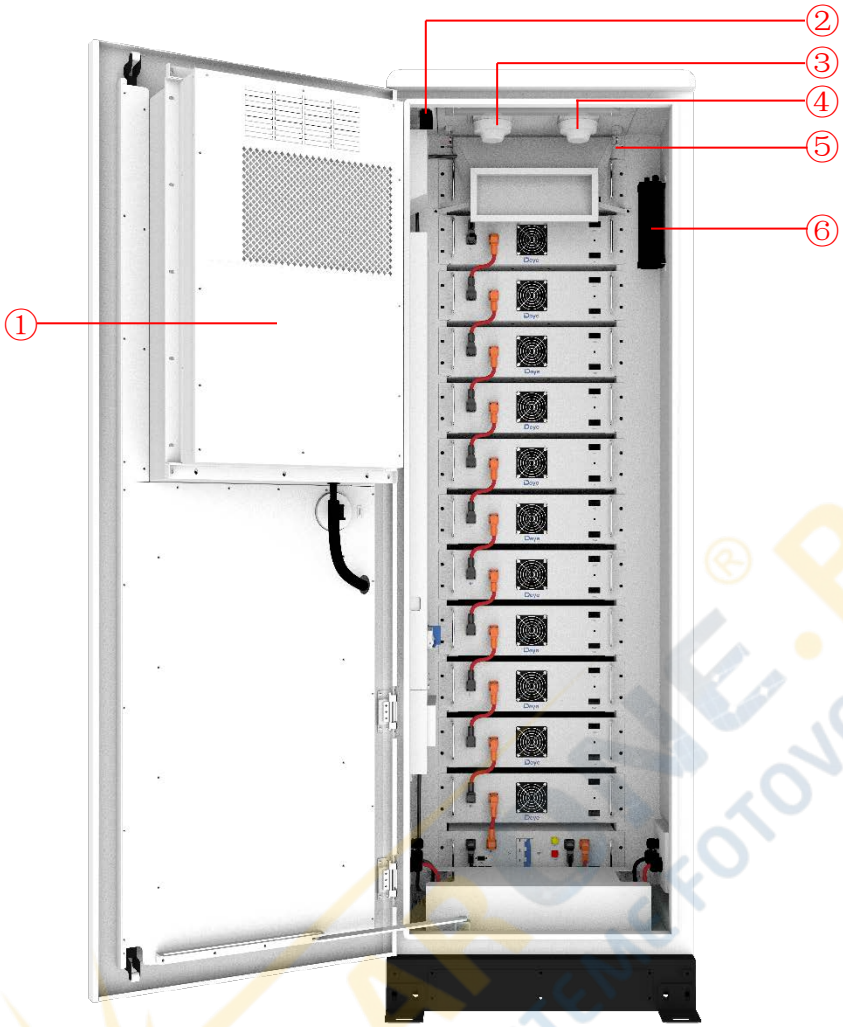
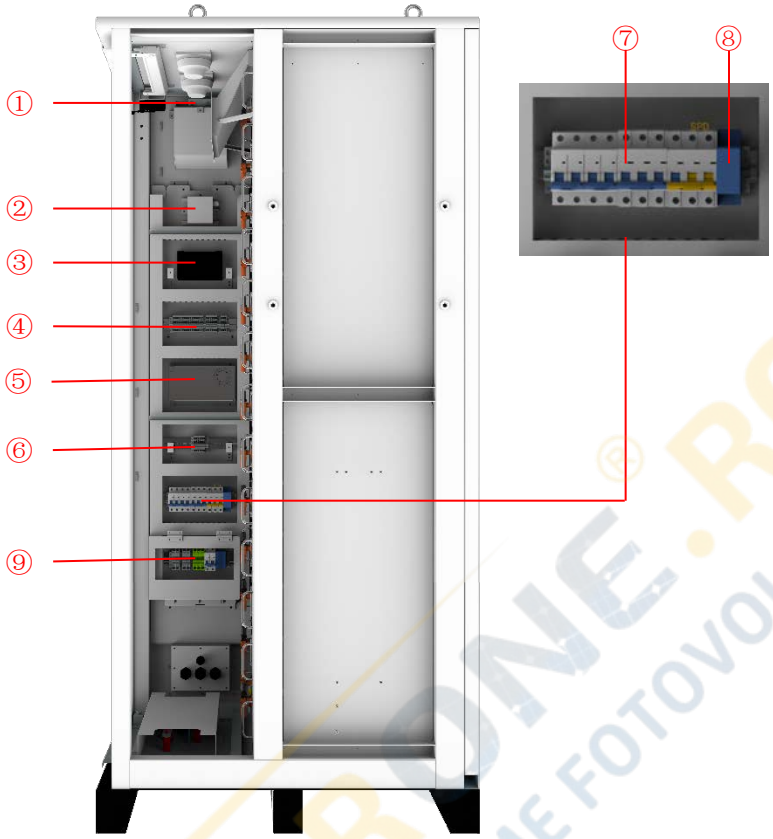


①Air conditioner	Cooling the BESS.
②Travel switch	When the BESS is detected to be on fire, aerosol is emitted to extinguish the fire. Check whether the BESS's door is closed.
③Smoke detector	A device used to detect smoke in a fire and sound an alarm when smoke is detected.
④Heat detector	A device used to measure temperature and sound an alarm if it detects excessive temperature.
⑤Fire suppression water pipe	Fire suppression and cooling.
⑥Aerosol Fire Suppression Device	When the BESS is detected to be on fire, aerosol is emitted to extinguish the fire.



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

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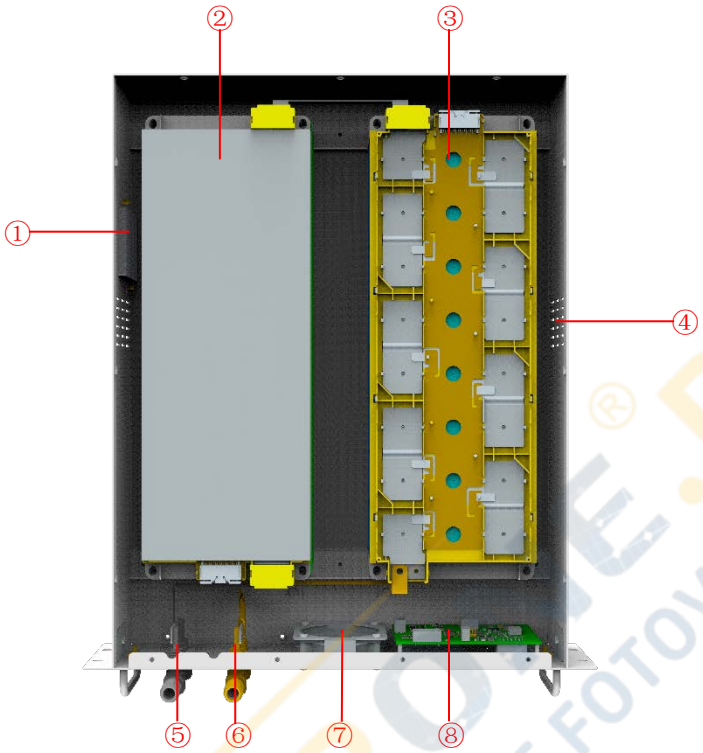
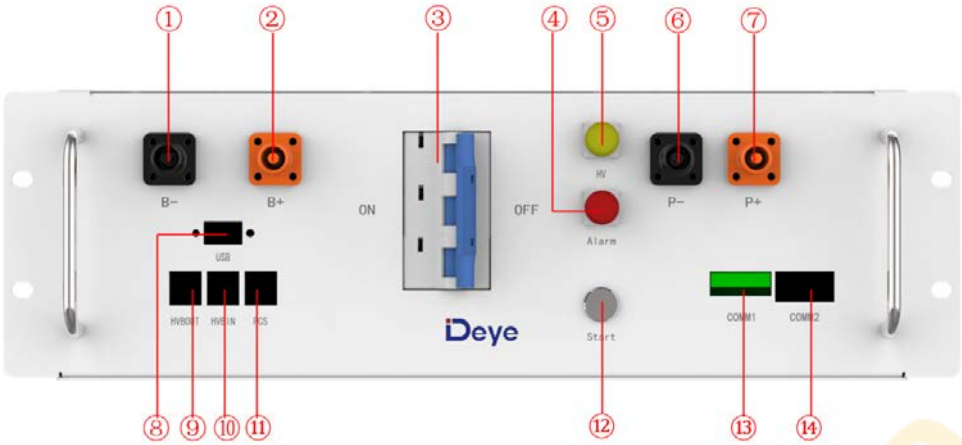


①Aerosol fire extinguishing device	When the pack is detected to be on fire, aerosol is emitted to extinguish the fire.
②Battery module	Provides electrical energy storage and output
③CCS	Cells Contact System
④Air inlet	Cold air inlet
⑤Battery negative-	/
⑥Battery positive+	/
⑦Fan	Promote internal and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