

GE-F60



High Voltage All-In-One Hybrid ESS GE-F60 (50KW/60KWh)



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
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
Energy Configuration (kWh)	61.4
Dimension (W x D x H,mm)	735x1045x2235 (no contain inverter)
Weight Appr. (kg)	1015 (battery) +80 (inverter)
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)	<0.5%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
Safety EMC / Standard	IEC/EN 62109-1,IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4
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)	45
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	CE, IEC62619, IEC62040, UN38.3

MAX: 50kW/360kWh



MAX: 300kW/360kWh



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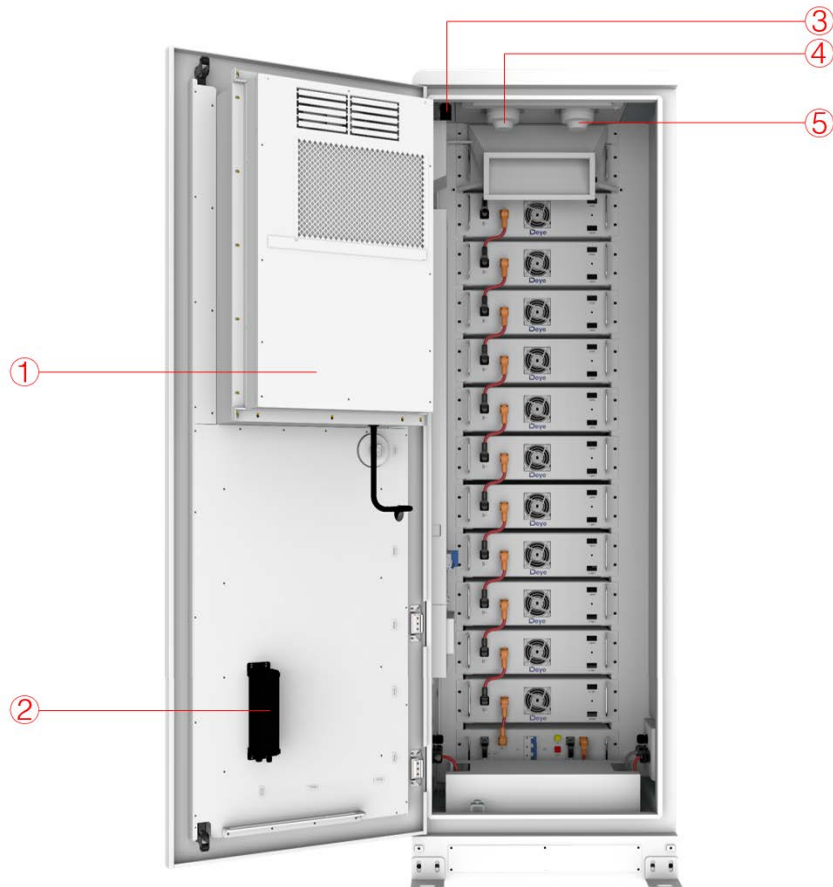
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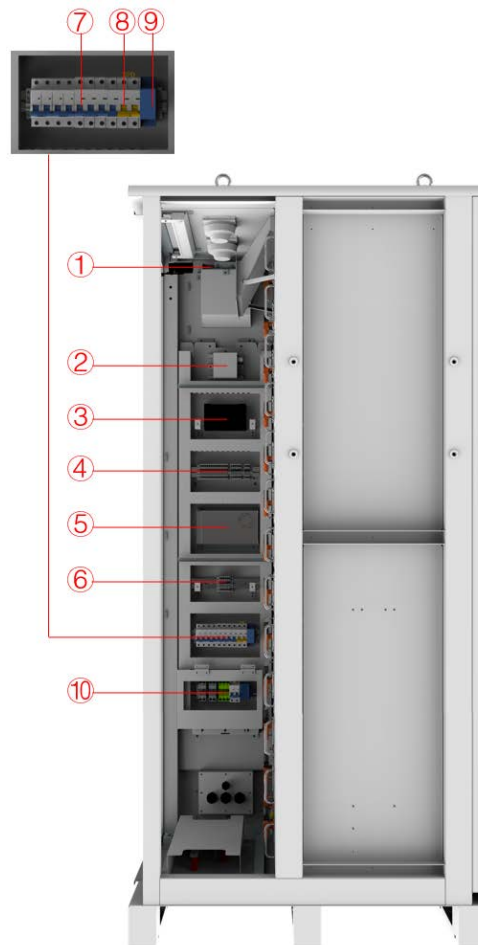
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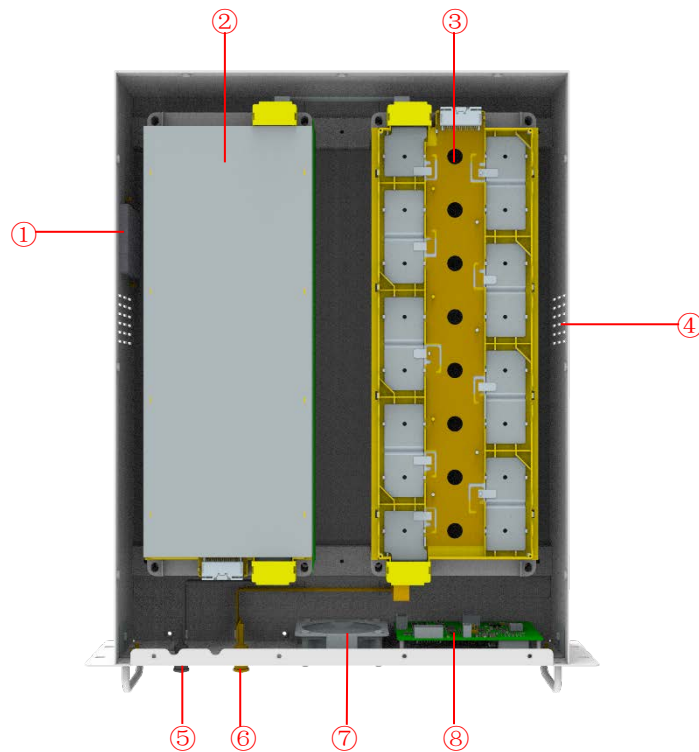




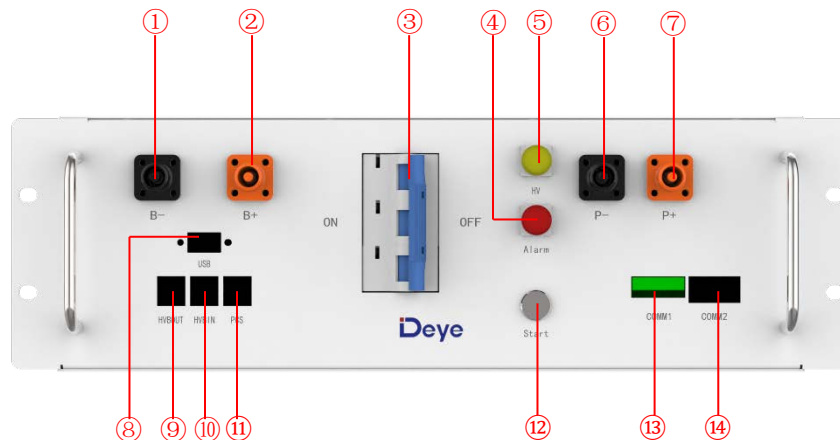
①Air conditioner	Cooling the BESS.
②Aerosol Fire Suppression Device	When the BESS is detected to be on fire, aerosol is emitted to extinguish the fire.
③Travel switch	Check whether the BESS's door is closed.
④Smoke detector	A device used to detect smoke in a fire and sound an alarm when smoke is detected.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



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
⑥Terminal line	For connecting cables
⑦Miniature circuit breaker	Controlled power-on and power-off
⑧Relay	Automatic regulation, safety protection, conversion circuit
⑨Water immersion sensor	Check the ESS for water leakage
⑩Terminal 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 HVB-100A 750V communication output
⑩IN COM	Connection position with previous HVB-100A750V 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.