

Deye

SMALL-SCALE C&I ESS SOLUTION

DEYE SUMMER GE SERIES



Total Protection

Combustible gas, smoke and temperature detection
Active exhaust system
Fire alarm



Integrated Technology

EMS, hybrid inverter and BMS integration technology
Power supply redundancy design
Support for black start function, off-grid operation



Flexible Extension

Support battery expansion a maximum capacity of 3600kWh
(Off-grid)



Safety Protection

Lithium iron phosphate (LFP) batteries, battery packs and systems
all use aerosol fire suppression solutions



Model	GE-FL60	GE-FH60
System Specification		
Grid Type	Three phase	
AC Output Frequency and Voltage	50 / 60Hz; 3L / N / PE 220 / 380, 230 / 400Vac	
Energy Configuration	61.4kWh	
Battery Chemistry	LiFePO ₄	
Battery Operating Voltage	500 ~ 700V	
AC Output Rated Current	75.8A	
Max. charging / discharging Efficiency	91%	
Ingress Protection	IP55	
Installation Style	Floor-Mounted	
Warranty	10 years	
Dimension (W × D × H)	735 × 1,045 × 2,235mm	
Weight	1,015kg (battery) +80kg (inverter)	
Battery Specification		
Battery Module Nominal Voltage	51.2V	
Battery Module Energy	5.12kWh	
Operating Temperature Range	Charge : 0 ~ 55°C / Discharge : -20 ~ 55°C	
Cycle Life	≥6,000 (@25°C±2°C, 0.5C / 0.5C, 70%EOL)	
Battery Module Certification	UL1973 / UL9540A / UN38.3	
Battery Module Dimension (W × D × H)	440 × 570 × 133mm	
Battery Module Weight	45kg	
High Voltage Control Box Specification		
Operating Voltage	480 ~ 700Vdc	
Nominal Charge / Discharge Current	100A	
Max. Charge / Discharge Current	125A	
DC Input Rating	12±2%V / 14.15A	
Operating Temperature Range	-30 ~ 45°C (>45 derating)	
Dimension (W × D × H)	440 × 570 × 150mm	
Weight	17kg	

Model	GE-F120-4H4		GE-F120-2H4	
System Specification				
Nominal Output Power/UPS Power (W)	30000		60000	
AC Output Frequency and Voltage	50 / 60Hz; 120 / 208Vac		50 / 60Hz; 277 / 480Vac	
Grid Type	3L / N / PE			
Number of Parallel (Off-grid)	10			
Energy Configuration (kWh)	122.8			
Dimension (W × D × H, mm)	1780 × 1056 × 2235			
Weight Appr. (kg)	2090			
AC Output Rated Current (A)	83.4		72.3	
Battery Operating Voltage (V)	250 ~ 350		500 ~ 700	
Max. RTE	89%			
Battery Chemistry	LiFePO ₄			
IP Rating of Enclosure	IP55			
Installation Method	Floor-Mounted			
Storage Temperature (°C)	0~35			
Operating Temperature (°C)	-30 ~ 45(>45 derating)			
Warranty	10 years			
Inverter Technical Specification				
Max. PV Input Power (W)	39000		78000	
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 derating)			
Relative Humidity	15% ~ 85% (No Condensing)			
Dimension (W × D × H, mm)	527 × 294 × 894			
Inverter Communication	WIFI, ETH			
Grid Regulation	UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP 4			
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)	440 × 570 × 133			
Battery Module Weight (kg)	44			
Operating Temperature Range (°C)	Charge : 0 ~ 55 / Discharge : -20 ~ 55			
Cycle Life	≥6000 (@25°C±2°C, 0.5C / 0.5C, 70%EOL)			
Battery Certification	UN38.3, UL1973, UL9540A, UL9540			

Product Expansion

6 × FL60+30kW Inverter
Maximum 6 DC parallel-connected units

6 × FH60+60kW Inverter
Maximum 6 DC parallel-connected units

(6 × FL60 / FH60+30kW / 60kW Inverter) × 10
Maximum 10 groups AC parallel
FL60 combination : 300kW / 3600kWh
FH60 combination : 600kW / 3600kWh

(FL60 / FH60+30kW / 60kW Inverter) × 10
Maximum 10 groups AC parallel
Up to: 600kW/600kWh

10 × F120
30kW/ 60kW Inverter selectable
Up to : 600kW / 1200kWh

F120+4 × FL60 / FH60
1+4 Combined DC Expansion
FL60 combination : 30kW / 360kWh
FH60 combination : 60kW / 360kWh

(F120+4 × FL60 / FH60) × 10
Maximum 10 groups AC parallel
FL60 combination : 300kW / 3600kWh
FH60 combination : 600kW / 3600kWh