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

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

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

5 Level
Extreme safety protection

⩾6000
Cycles

10 Years
warranty

70%
EOL

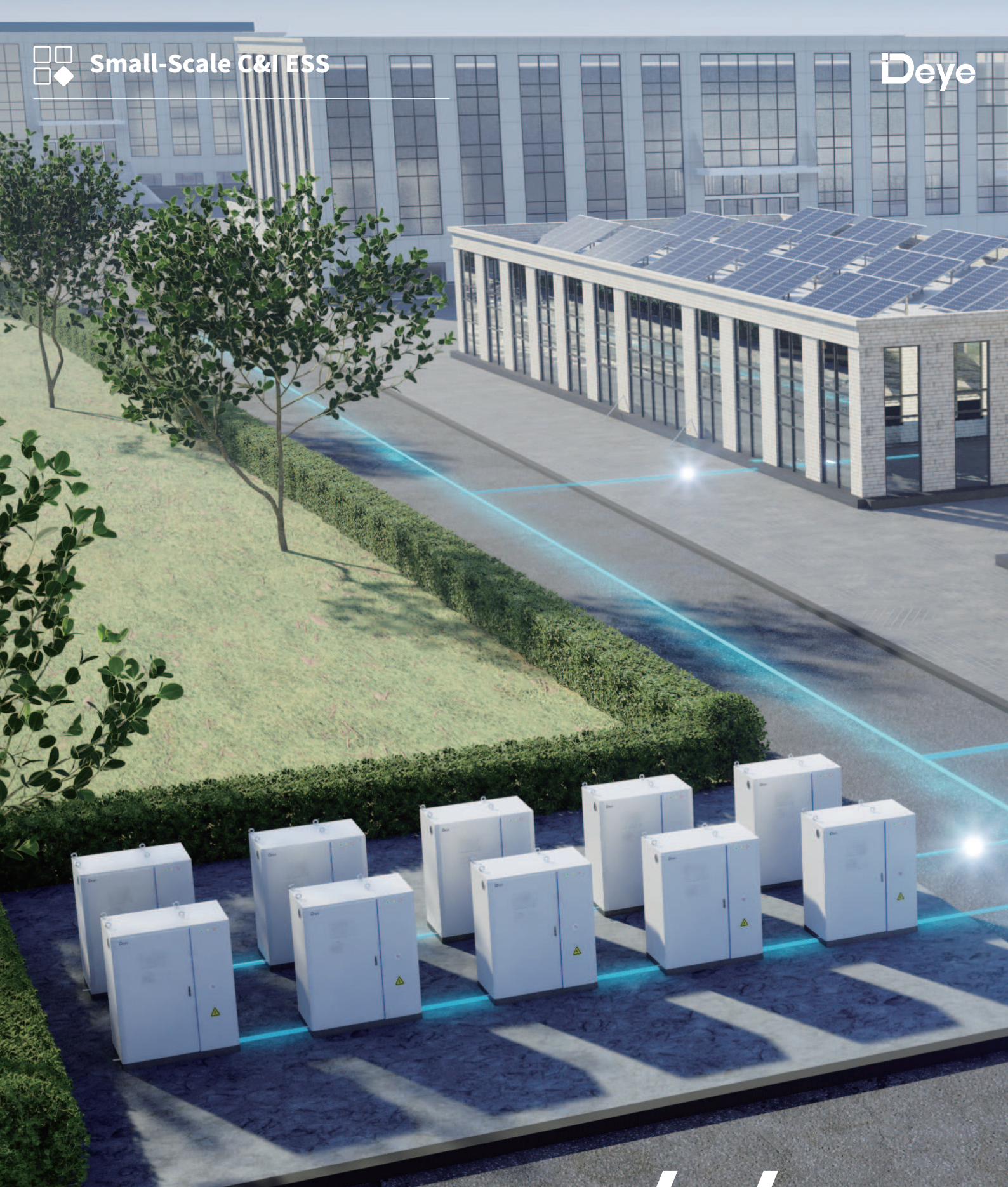
Small-Scale C&I ESS



Model		GE-F60
Main Parameter		
Cell Chemistry		$LiFePO_4$
Module Energy (kWh)		5.12
Module Nominal Voltage (V)		51.2
Module Capacity (Ah)		100
Battery Module Qty In Series		12
System Nominal Voltage (V)		614.4
System Operating Voltage (V)		480 ~ 700
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°C)	125
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)		783 × 1059 × 2235
Weight Approximate (kg)		1070
Installation Method		Floor-Mounted
Storage Temperature (°C)		0 ~ 35
Operating Temperature (°C)		-30 ~ 60 (>45 derating)
Recommend Depth of Discharge		90%
Cycle Life		≥6000 (25±2°C, 0.5C / 0.5C, EOL70%)
Warranty[3]		10 years
Certification		UN38.3 / CB / CE / CEC / IEC 62040

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.

Deye



GE-F120-2/3/4H2

Rated power operation the maximum temperature of the battery is less than 35°C
Suitable for high rate cyclic charging and discharging scenarios

Typical Application Scenarios

Model	GE-F120-4H2	GE-F120-3H2	GE-F120-2H2
System Specification			
Nominal Output Power / UPS Power (W)	30000	40000	50000
AC Output Frequency and Voltage		50 / 60Hz ; 220 / 380, 230 / 400Vac	
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 Approximate (kg)		2090	
AC Output Rated Current (A)	45	58	75.8
Battery Operating Voltage (V)		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)		-20 ~ 55 (>43 derating)	
Warranty		10 years	
Inverter Technical Specification			
Max. PV Input Power (W)	39000	52000	65000
Max. PV Input Current (A)	36+36+36	36+36+36+36	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+55+55+55	55+55+55+55
Number of MPPT	3	4	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		CAN, RS485, WIFI, ETH	
Grid Regulation		VDE 4105, IEC 61727 / 62116, VDE 0126, AS 4777.2, CEI 0-21, EN 50549-1, G98, G99, C10-11, UNE 217002, NBR 16149 / NBR 16150	
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	
Cycle Life		≥6000 (@25°C±2°C, 0.5C / 0.5C, 70%EOL)	
Battery Module Certification		UN38.3, IEC 62619, IEC 61000	

Typical Application Scenarios

For Small-scale Comemercial&Industrial

Farm



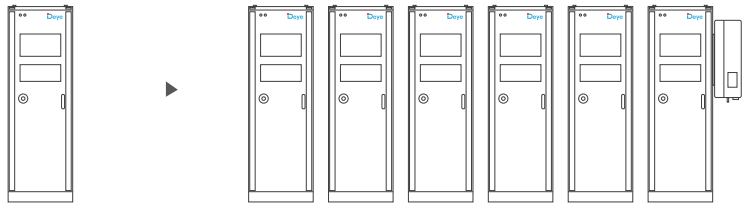
Mall or Shop



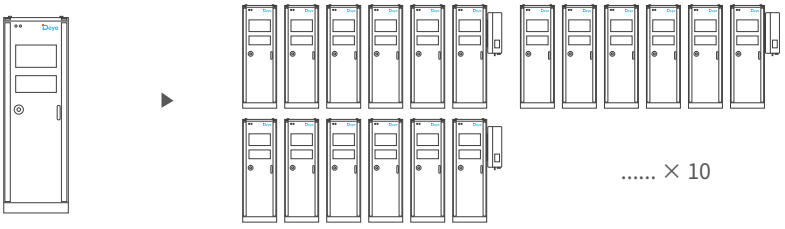
Factory



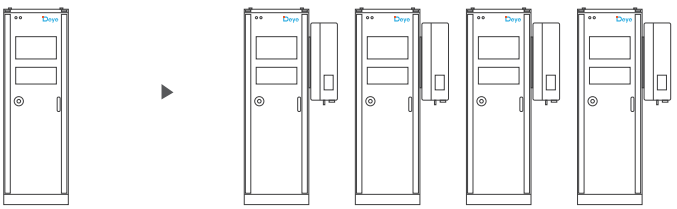
Product Expansion



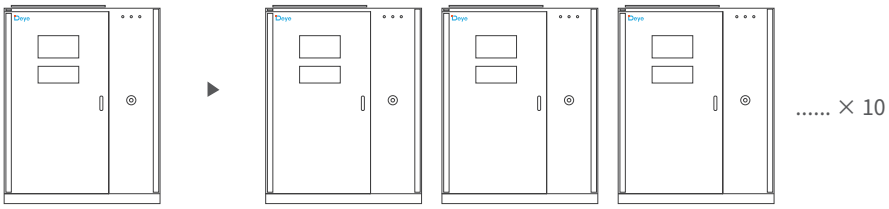
6 × F60+50kW Inverter
Maximum 6 DC parallel-connected units
Up to : 50kW / 360kWh



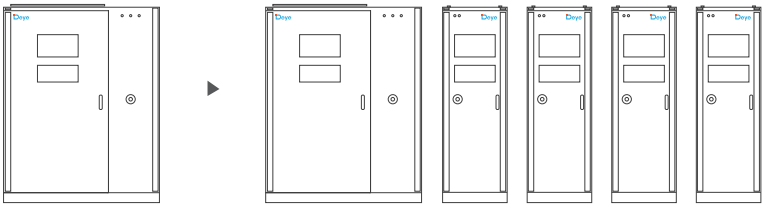
(6 × F60+50kW Inverter) × 10
Maximum 10 groups AC parallel
Up to : 500kW / 3600kWh



(F60+50kW Inverter) × 10
Maximum 10 groups AC parallel
Up to : 500kW / 600kWh



10 × F120
30kW/ 50kW Inverter selectable
Up to : 500kW / 1200kWh



F120+4 × F60
1+4 Combined DC Expansion
Up to : 50kW / 360kWh



(F120+4 × F60) × 10
Maximum 10 groups AC parallel
Up to : 500kW / 3600kWh

Deye Cloud
Intelligent Energy Management

Efficiency Optimization

Real-Time Monitoring

User-Friendly



Supporting the establishment, data acquisition, data monitoring, one-stop operation maintenance and after-sales service of all new energy power stations.

Through the Deye smart cloud big data platform, all types of power stations with transparent management which improves the value of power stations comprehensively.

CONNECT, MONITOR, CONTROL

Seamlessly integrated with Deye devices for a smarter, more efficient energy experience.

User-friendly interface demystifies complex settings.
Clear menu hierarchy, key information at your finger tips.

Deye

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Deye ESS / Deye Inverter