

SMALL-SCALE C&I ESS SOLUTION

DEYE SUMMER **GE SERIES**



Total Protection

- ⦿ Combustible gas, smoke and temperature detection, active exhaust system, and fire alarm.
- ⦿ Rated power operation, the maximum temperature of the battery is less than 35°C



Safety Protection

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



Integrated Technology

- ⦿ All-in-one integrated system combining PCS, inverter, battery (BMS), and EMS.
- ⦿ Power supply redundancy design
- ⦿ Support for black start function, off-grid operation



Flexible Extension

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

5 Level

Extreme
safety protection

≥6000

Cycles

10 Years

warranty

70%

EOL

Model	GE-F120-4H6	GE-F120-3H6	GE-F120-2H6
System Specification			
Nominal Output Power / UPS Power (W)	30000	40000	50000
AC Output Frequency and Voltage	50Hz / 45~55HZ ; 230V / 400		
Grid Type	3L / N / PE		
Number of Parallel (Off-grid)	10		
Energy Configuration (kWh)	122.8		
System Usable Energy (kWh)	100		
Dimension (W × D × H, mm)	1780 × 1056 × 2235		
Weight Approximate (kg)	2090		
AC Output Rated Current (A)	43.5	58	72.5
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		
Certification	IP (IEC 60529), CEC, CE-LVD(IEC 62040)		
Battery Technical Specification			
Battery Module Nominal Voltage (V)	51.2		
Battery Module Energy (kWh)	5.12		
Battery Max Charge/Discharge Current	100A		
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		

1.Made in China.

Model	SUN-30K-SG01HP3 -AU-BM3		SUN-40K-SG01HP3 -AU-BM4		SUN-50K-SG01HP3 -AU-BM4	
Battery Input Data						
Battery Type						Lithium-ion
Battery Voltage Range (V)						160-800
Max. Charging Current (A)						50+50
Max. Discharging Current (A)						50+50
Charging Strategy for Li-ion Battery						Self-adaption to BMS
Number of Battery Input						2
PV String Input Data						
Max. PV access power(W)	60000		80000		100000	
Max. PV Input Power (W)	45000		60000		75000	
Max. PV Input Voltage (V)						1000
Start-up Voltage (V)						180
MPPT Voltage Range (V)						150-850
Rated PV Input Voltage (V)						600
Max. Operating PV Input Current (A)	36+36+36			36+36+36+36		
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55+55		
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			4/2+2+2+2		
AC Input/Output Data						
Rated AC Input/Output Active Power(W)	30000		40000		50000	
Max. AC Input/Output Apparent Power(VA)	30000		40000		50000	
Rated AC Input/Output Current (A)	43.5		58		72.5	
Max. AC Input/Output Current (A)	43.5		58		72.5	
Max. Continuous AC Passthrough (grid to load)(A)						200
Peak Power (off-grid) (W)						1.5 times of rated power, 10s
Power Factor Adjustment Range						0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)						230/400V 240/415V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)						50Hz/45Hz-55Hz
Grid Connection Form						3L+N+PE
Total Current Harmonic Distortion THDi						<3%
DC Injection Current						<0.5% In
Efficiency						
Max. Efficiency						97.60%
Euro Efficiency						97.0%
MPPT Efficiency						>99%
Equipment Protection						
Integrated						DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Insulation Impedance Detection, Arc Fault Circuit Interrupter (optional),DC Switch, Anti-islanding Protection(Active Frequency shift) , Residual Current Detection
Surge Protection Level						TYPE II(DC), TYPE II(AC)
Interface						
Communication Interface						WIFI,RS485,CAN
LCD/LED Display						LCD
General Data						
Operating Temperature Range (°C)						-40°C to +60°C, >45°C Derating
Permissible Ambient Humidity						0-100%
Permissible Altitude						2000m
Noise (dB)						≤65
Ingress Protection(IP) Rating						IP 65
Protection Level						Class I
Inverter Topology						Non-Isolated
Over Voltage Category						OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)						527 × 894 × 294 (Excluding Connectors and Brackets)
Weight (kg)						80
Type of Cooling						Intelligent Air Cooling
Warranty						10 Years
Grid Regulation						AS/NZS 4777.2
Safety / EMC Standard						IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

For Small-scale Commercial&Industrial

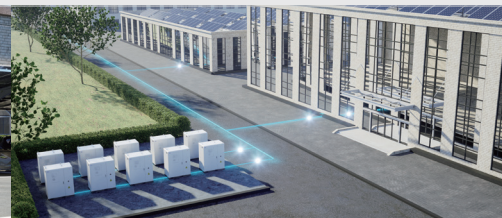
Farm



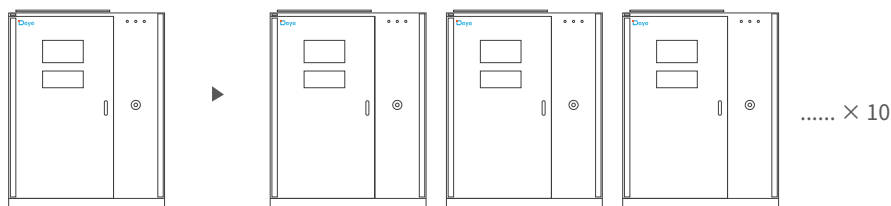
Mall or Shop



Factory

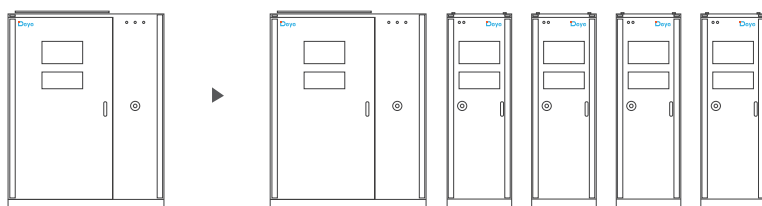


Product Expansion



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



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

