

# 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
<b>System Specification</b>			
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 <sub>4</sub>		
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)		

<b>Battery Technical Specification</b>			
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
<b>Battery Input Data</b>			
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		
<b>PV String Input Data</b>			
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
<b>AC Input/Output Data</b>			
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		
<b>Efficiency</b>			
Max. Efficiency	97.60%		
Euro Efficiency	97.0%		
MPPT Efficiency	>99%		
<b>Equipment Protection</b>			
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)		
<b>Interface</b>			
Communication Interface	WIFI,RS485,CAN		
LCD/LED Display	LCD		
<b>General Data</b>			
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





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.

