

# 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





| Model  |                                 | GE-F60   |
|--|---------------------------------|--|
| Main Parameter                                 |                                 |  |
| Cell Chemistry                                 |                                 | LiFePO <sub>4</sub>  |
| 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 ) <sup>1</sup>      |                                 | 55.29  |
| Rated DC Power                                 |                                 | 61.44  |
| Charge / Discharge <sup>2</sup><br>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 <sup>3</sup>                          |                                 | 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.





Small-Scale C&I ESS

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  | 60          | 75.8        |
| 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  |             |             |
| 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  |             |             |



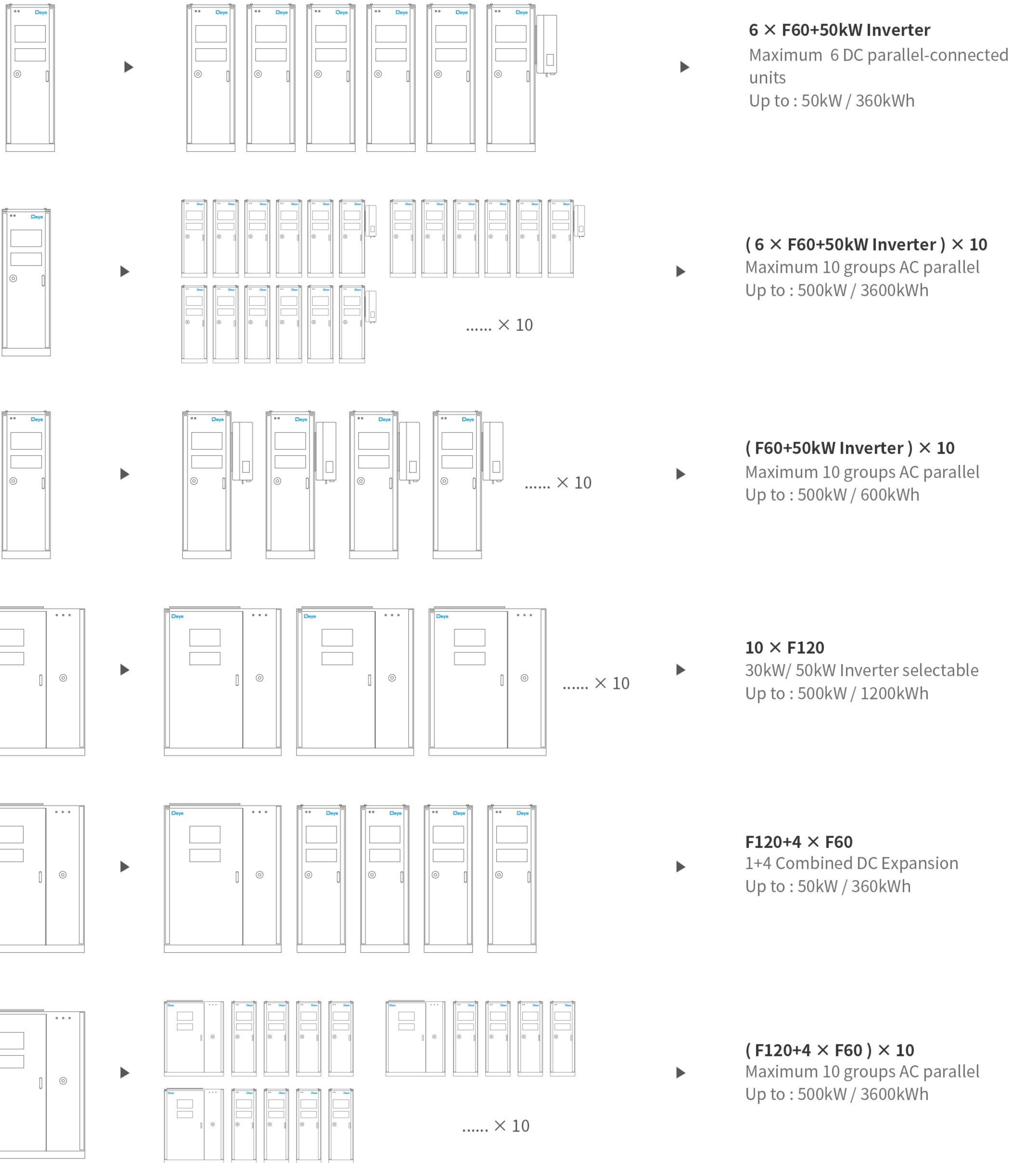


# Typical Application Scenarios

## For Small-scale Comemercial&Industrial



## 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.

