

# Firefly Home Energy Storage Battery System<sub>(distributed low voltage)</sub>

## Features

- Self-produced lithium iron phosphate cells, with high safety, green and environmental protection and long service life (≥6,000 cycle times);
- Self-developed layered smart BMS, it can be perfectly suitable for modular stacking structure by means of 1\* master control + n\* slave control;
- Supporting independent cloud platform access, with data analysis, online monitoring, remote diagnosis, online upgrade and intelligent terminal APP;
- Modular stacking cable-free design, easy installation and flexible expansion, supporting a maximum of 3 sets of parallel operation with 3.6kWh-43.2kWh to be suitable for application scenarios of high power and battery capacity;
- Sound compatibility to be suitable for the major inverter manufacturers (GoodWe, Growatt, Ginlong, Luxpower, SMA, etc.)



## Product Features 《

| Model                                            | Firefly-3.6K                                                                                                                             | Firefly-7.2K   | Firefly-10.8K  | Firefly-14.4K  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
| Battery module                                   | 3.6kWh/37kg/LiFePO4                                                                                                                      |                |                |                |
| Module layer 1                                   | 1                                                                                                                                        | 2              | 3              | 4              |
| Nominal Capacity                                 | 3.6 kWh                                                                                                                                  | 7.2 kWh        | 10.8 kWh       | 14.4 kWh       |
| Usable Capacity <sup>1</sup>                     | 3.24 kWh                                                                                                                                 | 6.48 kWh       | 9.72 kWh       | 12.96 kWh      |
| Rated Voltage                                    | 51.2 Vdc                                                                                                                                 |                |                |                |
| Battery Voltage range                            | 41.6~ 58.4Vdc                                                                                                                            |                |                |                |
| Maximum continuous charging /discharging current | 37.5A                                                                                                                                    | 75A            | 75A            | 75A            |
| Battery charge & discharge efficiency            | >98%                                                                                                                                     |                |                |                |
| Communications                                   | CAN/RS485/WIFI                                                                                                                           |                |                |                |
| Operation ambient temperature <sup>2</sup>       | -10~45°C                                                                                                                                 |                |                |                |
| Operation Humidity                               | 5~90%RH, non-condensing                                                                                                                  |                |                |                |
| Protection Grade                                 | IP54                                                                                                                                     |                |                |                |
| Cooling method                                   | Natural cooling                                                                                                                          |                |                |                |
| Dimensions (W * D * H±2 mm)                      | 430×430×279 mm                                                                                                                           | 430×430×448 mm | 430×430×617 mm | 430×430×786 mm |
| Weight (±0.2kg)                                  | 40kg                                                                                                                                     | 86kg           | 123kg          | 160kg          |
| Certification & Safety Standards                 | TUV (IEC62619,IEC62040) /CB/RCM/CE/UN38.3/RoHS                                                                                           |                |                |                |
| Parallel operation                               | Up to 3 units of parallel operation are allowed with a maximum electricity capacity of 43.2kWh and a maximum operating current of 75A*3. |                |                |                |

charge/discharge mode: CC-CV/CC.The actual available electric energy of the system is affected by the ambient temperature, the operating power and efficiency of the power module and other factors;

Affected by battery characteristics, when the temperature is -10 ~15 °C, the charging will be derated.