



· Firefly



· Firefly PRO



Firefly & Firefly pro Battery Module



Product Overview

This series of products are lithium iron phosphate battery modules with a battery control unit (BCU), which works with hybrid inverters or power conversion systems (PCS). Firefly and Firefly Pro battery modules provide users with ideal batteries that are green, environmentally friendly, long-life and high-performance.



• Firefly

The Firefly battery module is the first-generation 48V battery module, which adopts a flexible modular and cable-free design. A set of Firefly battery modules can connect up to 4 sets of 3.6kWh battery layers in parallel, with a capacity of 3.6kWh~14.4kWh;

By using up to 3 sets of Firefly battery modules in parallel, the capacity can be configured at 3.6kWh intervals from 3.6kWh to a maximum of 43.2kWh. (Coming soon)



Product parameter

| Model | Firefly-3.6k | Firefly-7.2k | Firefly-10.8k | Firefly-14.4k |
|--|---|----------------|----------------|----------------|
| Battery layers | Battery Pack (3.6kWh/37kg/LiFePO4) | | | |
| | 1 module | 2 module | 3 module | 4 module |
| Rated Energy Capacity | 3.6kWh | 7.2kWh | 10.8kWh | 14.4kWh |
| Usable Capacity ¹ | 3.24kWh | 6.48kWh | 9.72kWh | 12.96kWh |
| Rated Voltage | 51.2V | | | |
| Operating Voltage Range | 41.6~58.4V | | | |
| Max. Continuous Charging / Discharging Current | 37.5A | 75A | | |
| Communication | CAN/RS485/Wi-Fi/LAN | | | |
| Ambient Temperature ² | -10~45℃ | | | |
| Relative Humidity | 5~90%RH | | | |
| Ingress Protection | IP54 | | | |
| Cooling | Natural Convection | | | |
| Dimensions (W*D*H ± 2mm) | 430*430*279 mm | 430*430*448 mm | 430*430*617 mm | 430*430*786 mm |
| Weight (± 0.2kg) | 49kg | 86kg | 123kg | 160kg |
| Certification & Approvals | TUV (IEC62619、IEC62040) /CB/RCM/CE/UN38.3/RoHS | | | |
| Parallel Operation | Maximum three sets to parallel with capacity of 43.2kWh | | | |

1. Testing condition: ambient temperature: 25 ± 5℃, relative humidity: 60 ± 25%RH, Atmospheric pressure: 86kPa~106kPa, 90%DOD, 0.2C charge/discharge with CC-CV/CC charging/discharging. Exact usable capacity for a system is affected by ambient temperature, power output of the power module and its efficiency.

2. Due to battery characteristics, charging will be derated between -10~15℃.





• Firefly Pro

Firefly pro battery module is a new generation of battery module. It also uses flexible modular and cable-free design, but has been carefully optimized and increased high-voltage and low-voltage compatible designs to meet the needs of more applications. A set of Firefly pro HV battery modules can be connected in series with 4~7 sets of 3.84kWh battery layers, with a capacity of 15.36kWh~26.88kWh; a set of Firefly pro LV battery modules can be connected in parallel with 1~4 sets of 3.84kWh battery layers. The capacity is 3.84kWh~15.36kWh.



Product parameter

| High Voltage Model | Firefly pro-H15.3 | Firefly pro-H19.2 | Firefly pro-H23.0 | Firefly pro-H26.8 |
|--|--|-------------------|-------------------|-------------------|
| Battery Layers | Battery Pack (3.84kWh/48kg/LiFePO4) | | | |
| | 4 module | 5 module | 6 module | 7 module |
| Rated Energy Capacity | 15.36kWh | 19.20kWh | 23.04kWh | 26.88kWh |
| Usable Capacity ¹ | 13.82kWh | 17.28kWh | 20.73kWh | 24.19kWh |
| Rated Voltage | 204.8v | 256V | 307.2V | 358.4V |
| Operating Voltage Range | 166.4~233.6V | 208~292V | 249.6~350.4V | 291.2~408.8V |
| Max. Continuous Charging / Discharging Current | 37.5A | | | |
| Dimensions (W*D*H ± 2mm) | 600*380*990 mm | 600*380*1190 mm | 600*380*1390 mm | 600*380*1590 mm |
| Weight (± 0.2kg) | 210kg | 258kg | 306kg | 354kg |
| Low Voltage Model | Firefly pro-L3.8 | Firefly pro-L7.6 | Firefly pro-L11.5 | Firefly pro-L15.3 |
| Battery Layers | Battery Pack (3.84kWh/48kg/LiFePO4) | | | |
| | 1module | 2modules | 3modules | 4modules |
| Rated Energy Capacity | 3.84kWh | 7.68kWh | 11.52kWh | 15.36kWh |
| Usable Capacity ¹ | 3.45kWh | 6.91kWh | 10.36kWh | 13.82kWh |
| Rated Voltage | 51.2V | | | |
| Operating Voltage Range | 41.6~58.4V | | | |
| Max. Continuous Charging / Discharging Current | 37.5A | 75A | 100A | |
| Dimensions (W*D*H ± 2mm) | 600*380*390 mm | 600*380*590 mm | 600*380*790 mm | 600*380*990 mm |
| Weight (± 0.2kg) | 66kg | 114kg | 162kg | 210kg |
| Communication | CAN/RS485/Wi-Fi/LAN | | | |
| Ambient Temperature ² | -10~50℃ | | | |
| Relative Humidity | 5~90%RH | | | |
| Ingress Protection | IP54 | | | |
| Cooling | Natural Convection | | | |
| Certification & Approvals | TUV (IEC62619、IEC62040) /RCM/CE/UN38.3/RoHS/UL1973 (to be certified) | | | |

