

Firefly Pro Residential Energy Storage System (High Voltage Stackable Type)

Firefly Pro-H3/H4/H5/H6/H7/H8



UL 1973
UL 9540A



UN38.3



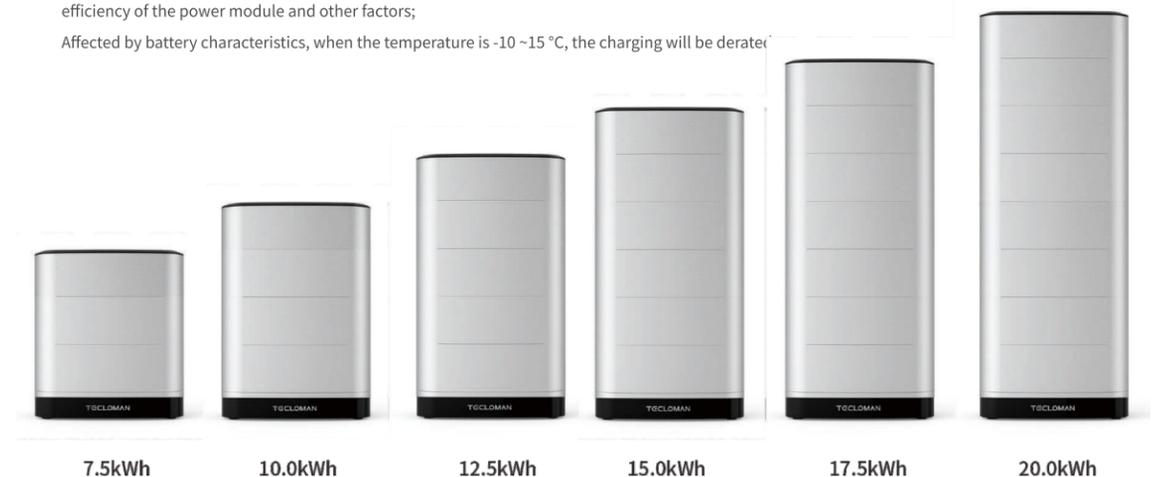
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| Model | Firefly Pro-H3 | Firefly Pro-H4 | Firefly Pro-H5 | Firefly Pro-H6 | Firefly Pro-H7 | Firefly Pro-H8 |
|--|--|-----------------|----------------|-----------------|-----------------|-----------------|
| Battery module | 2.5kWh/32kg/LiFePO4 | | | | | |
| | 3 | 4 | 5 | 6 | 7 | 8 |
| Nominal battery capacity | 7.5 kWh | 10.0 kWh | 12.5 kWh | 15.0 kWh | 17.5 kWh | 20.0 kWh |
| Usable battery capacity | 6.75KWh | 9KWh | 11.25KWh | 13.5KWh | 15.75KWh | 18KWh |
| Voltage | 153.6 Vdc | 204.8 Vdc | 256 Vdc | 307.2 Vdc | 358.4 Vdc | 409.6 Vdc |
| Battery Voltage range | 134.4-172.8 Vdc | 179.2-230.4 Vdc | 224-288 Vdc | 268.8-345.6 Vdc | 313.6-403.2 Vdc | 358.4-460.8 Vdc |
| Maximum continuous charging /discharging current | 50A | | | | | |
| Dimensions (W * D * H±2 mm) | 580*364*775mm | 580*364*942mm | 580*364*1110mm | 580*364*1278mm | 580*364*1446mm | 580*364*1614mm |
| Weight 3(± 0.2kg) | 110kg | 143kg | 175kg | 207kg | 239kg | 271kg |
| Rated DC power | 3.84kW | 5.12kW | 6.4kW | 7.68kW | 8.96kW | 10.24kW |
| Nominal Capacity | 50Ah | | | | | |
| DOD | 90% (settable) | | | | | |
| Minimum and maximum operating temperature | -10-50°C discharge 0-50°C charge | | | | | |
| Communications | CAN/RS485/Wi-Fi/Ethernet | | | | | |
| Operation ambient temperature | Charge: 0~50°C; Discharge:-20~50°C | | | | | |
| Operation Humidity | 5~90%RH | | | | | |
| Protection Grade | IP55 | | | | | |
| Cooling method | Natural cooling | | | | | |
| Certification & Safety Standards | CE-RED/CB/UN38.3/Rohs/IEC6269/IEC6240/UL1973/U L9540A/FCC-ID | | | | | |
| Parallel operation | Up to 3 units of parallel operation/a total capacity of 60 kWh are supported at maximum. | | | | | |

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



Made in China

Product Overview

Building upon the Tecloman Firefly Household Battery System, this product utilizes a distinct module stacking design that comprises a BMS control box and 3-8 sulfuric acid iron bond battery modules, culminating in a high-voltage battery system. With a single system power range spanning 7.5kWh to 20kWh, the system is outfitted with the newly minted Daisy Chain BMS, enhancing BMS management control and user experience. It seamlessly works with high-voltage household inverters from primary manufacturers, optimizing battery use for photovoltaic power generation storage and supplying power during non-photovoltaic periods. This system is an ideal choice for large power, three-phase grid home applications, promising to reduce household electricity expenses and ensure uninterrupted power supply after grid failure.

Self-produced lithium iron phosphate battery cathode

Self-developed hierarchical intelligent BMS

Supporting the access to our independent cloud platform

Modular stacking and cable-free design

Easy installation, flexible expansion

With strong compatibility, it can be matched with mainstream inverter manufacturer