

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

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



UL 1973
UL 9540A



UN38.3

CB



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



Modular stacking and cable-free design



Self-developed hierarchical intelligent BMS



Easy installation, flexible expansion



Supporting the access to our independent cloud platform



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



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
Usable Capacity	7.5 kWh	10.0 kWh	12.5 kWh	15.0 kWh	17.5 kWh	20.0 kWh
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	224-228 Vdc	268.8-345.6 Vdc	313.6-403.2 Vdc	358.4-406.8 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
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.