

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

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



UL 1973
UL 9540A



UN38.3



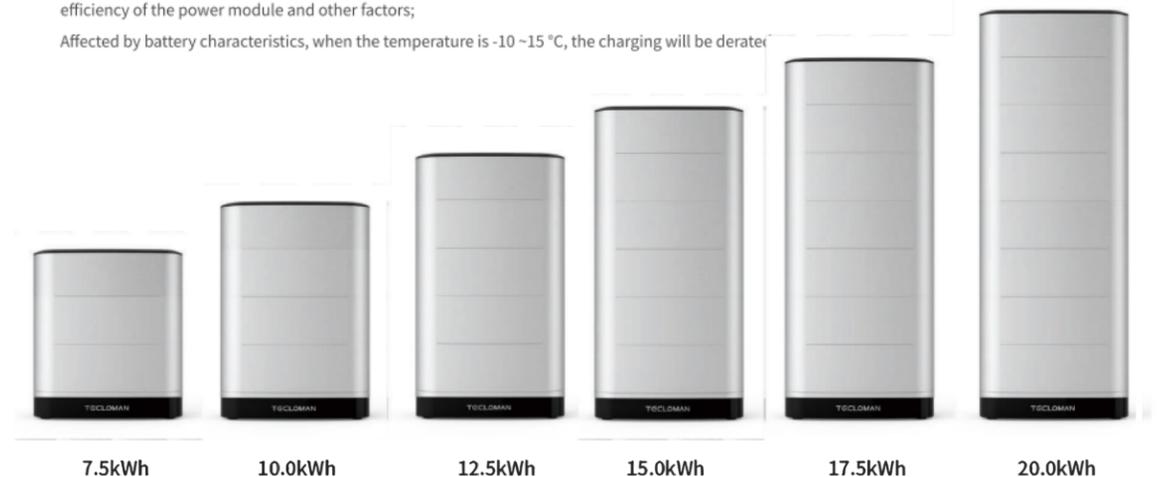
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Model	Firefly Pro H3	Firefly Pro-H4	Firefly Pro H5	Firefly Pro H6	Firefly Pro -H7	Firefly Pro H8
Battery module	2.5kWh/32kg/LiFePO4					
	3	4	5	6	7	8
Nominal battery capacity	7.5 kWh	10.0 kWh	12.5 kWh	15.0 kWh	17.5 kWh	20.0 kWh
Usable battery capacity	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	224-288Vdc	268.8-345.6 Vdc	313.6-403.2 Vdc	358.4-460.8 Vdc
Maximum continuous charging /discharging current	50A					
Dimensi (W * D * H)	580*364*775mm	580*364*942mm	580*364*1100mm	580*364*1278mm	580*364*1446mm	580*364*1614mm
Weight 3(± 0.2kg)	110kg	143kg	175kg	207kg	239kg	271kg
Rated DC power	3.75 kW	5.0 kW	6.25 kW	7.5 kW	8.75 kW	10 kW
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/UL9540A/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



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