TECLOMAN

Firefly Residential Energy Storage System (Low Voltage Stackable Type)

Firefly-3.6K/7.2K/10.8K/14.4K

- 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,

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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 Capacity1	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 2	-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
Weigh (±0.2kg)	49kg	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.			

1.Test conditions: ambient temperature 25 ± 5 °C, relative humidity 60 ± 25%RH, atmospheric pressure 86kPa～ 106 kPa, 100%DOD, 0.2C charge/discharge, 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;

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