



Household Battery Module



Product Overview

Firefly household battery module is primarily for households use. The battery module is composed of safe, long-life, environmentally friendly and pollution-free Lithium iron phosphate (LFP) battery. It also comes with a battery management unit (BMS) that efficiently matches the characteristics of the lithium iron phosphate battery. With its modular design, battery power can be freely combined based on family load. At the same time, this product can be used with photovoltaic and inverter to provide a complete solution for intelligent home power management.





Product parameter

Model	Firefly-3.6K	Firefly-7.2K	Firefly-10.8K	Firefly-14.4K	Firefly-18.0K	Firefly-21.6K	Firefly-25.2K	
Battery type	Battery Pack (51.2V/3.6KWh/37kg/ LiFePO4)							
	Top	1pcs						
	Mid	—	1pcs	2pcs	3pcs	4pcs	5pcs	6pcs
Nominal energy	3.6 kWh	7.2 kWh	10.8 kWh	14.4 kWh	18.0 kWh	21.6 kWh	25.2 kWh	
Usable energy ¹	3.24 kWh	6.48 kWh	9.72 kWh	12.96 kWh	16.2 kWh	19.44 kWh	22.68 kWh	
Depth of discharge	90%							
Maximum voltage	58.4Vdc							
Nominal voltage (Operating voltage range)	51.2 Vdc (41.6~58.4Vdc)							
Maximum continuous charging /discharging current	37.5A	75A						
Maximum charging power	2070W	4140W						
Maximum discharging power	2130W	4260W						
Rated DC power	1800W	3600W						
Charging/discharging method	CC/CV/CP							
Communication protocol	CAN bus/Modbus RTU							
Communication interface	CAN/RS485							
Self consumption	≈22W	≈25W	≈228	≈31W	≈34W	≈37W	≈40W	
Short-circuit current	2~3KA							
Operating temp. range ²	-10~45°C							
Storage temperature	-10~55°C							
Relative humidity	5~90%							
Altitude	<2000m							
Cooling method	Natural convection							
Ingress rating	IP 54 indoor & outdoor (floor standing, no condensation, no rain/snow, no sun exposure)							
Dimension (W*D*H ±2mm)	430×430×279	430×430×448	430×430×617	430×430×786	430×430×955	430×430×1124	430×430×1293	
Weight (±0.2kg)	49kg	86kg	123kg	160kg	197kg	234kg	271kg	
Certification & Safety Standard	TUV (IEC62619、IEC62040) / CB / RCM / CE / UN38.3 / RoHS							
Warranty ³	10 Years							

1. Test condition: Ambient temperature 25±5°C, relative humidity 60±25%RH, atmospheric pressure 86kPa~106kPa,90%DOD,charging/discharging by 0.5C, charging/discharging method CC-CV/CC. The actual available energy is affected by the factors such as ambient temperature, working power of hybrid inverter, efficiency etc. ;

2. Affected by battery characteristics at 0~15°C,Charging will be derated ;

3. Conditions apply. Refer to Tecloman Firefly Household Battery Module Warranty Letter.

