

# Firefly OS Residential Battery System (Integrated)



## **Integrated Design**

The battery system combines the battery, BMS, and EMS in a highly integrated manner, eliminating the need for external cable connections. This design ensures user safety and simplifies installation.



## **Slim Design**

The system seamlessly integrates with the wall, maximizing space utilization and creating an aesthetically pleasing appearance that complements the style of residential appliances.



## **Safety and Reliability**

Equipped with an internal active fluoroketone fire suppression system, the battery system guarantees optimal safety for home applications.



## **Intelligent Energy Management**

The system incorporates an advanced management system that harmonizes the battery, grid, photovoltaic, and load, allowing for comprehensive control and visualization of energy usage within the household.



## **Flexible Expansion**

The system supports parallel expansion with up to 6 units, allowing for a maximum capacity of 90 kWh. It features a plug-and-play design with automatic assignment of machine ID.



Model	BH-OS-10	BH-OS-15
Battery Type	Lithium iron phosphate	
Rated capacity	10kWh	15 kWh
Usable Capacity*1	9.5kWh	14.25kWh
Depth of Discharge	Up to 95%, adjustable	Up to 95%, adjustable
Rated Voltage	204.8Vdc	307.2Vdc
Operating voltage range	179.2Vdc~230.4Vdc	268.8Vdc~345.6Vdc
Dimensions (Width * Depth * Height; ±5mm)	745*170*1100mm	745*170*1300mm
Weight (Approx.)	120kg	180kg
Max. Continuous Charging/Discharging Power	10kW	15kW
Max. Continuous Charging/Discharging Current	50A	
Operating Temperature Range*2	-20°C to 50°C (discharge); 0°C to 50°C (charge)	
Relative humidity	5% ~95%	
Maximum working altitude	3000 m	
Protection Grade	IP55	
Installation method	Floor-mounted or wall-mounted	
Communications	CAN, RS485, WIFI, Ethernet	
Warranty	10 years	
Certification Standards	IEC62619, CE, UN38.3, UL1973, UL9540A, FCC	
Parallel Expansion	Supports 2 to 6 units in parallel, allowing for a maximum capacity of 60 kWh & 90 kWh	

Note:

1: Usable capacity is measured under specific conditions such as 25°C ± 2°C and 0.5C.

2: Battery performance may be affected by excessively high or low temperatures.