

## 12.8V LiFePO4 Battery



## Functions of BMS

- Over charge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection function
- Short circuit detection function
- Balance function

## Application

- Household
- Solar light
- RV Fishing boat

**Features of LiFePO4 Battery** 

• Longer Cycle Life: Offers up to 10 times longer cycle life and 5 times longer float/calendar life than lead acid battery. Helping to minimize replacement cost and reduce total cost of ownership.

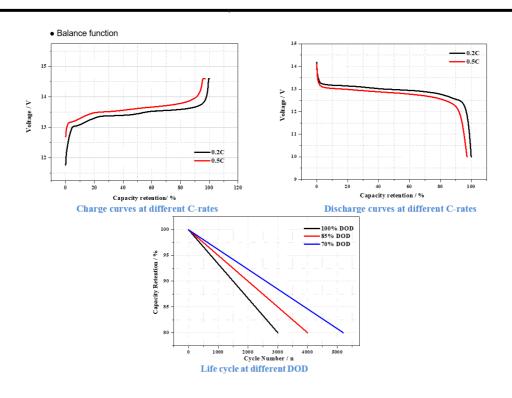
• Lighter Weight: About 40% of the weight of a comparable lead acid battery. A "drop in" replacement for lead acid battery.

• **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintain high energy capacity.

• Wider Temperature Range: -10°C~60°C

• **Superior Safety:** Lithium iron phosphate chemistry eliminates the risk of explosion or combustion due to high impact, over charging or short circuit situation.

• No Memory Effect: Support unstable partial state of charge (UPSOC) (charge/discharge) utilization.





## Specification

Model		HW12200 E
Electrical	Nominal Voltage	12.8V
	Nominal Capacity	200Ah
	Energy	2560Wh
	Internal Resistance	≤20mΩ (without BMS)
	Cycle Life	≥3000 cycles
	Design Life	<b>10</b> years @25℃
	Self-Discharge (30 days)	≤5%, @25℃
	Efficiency of Charge	≥98%
	Efficiency of Discharge	≥100% @ 0.2C
		≥96% @ 0.5C
Charge	Charge Voltage	14.2-14.6V
	Charge Mode	0.2C to 14.6V, then 14.6V charge current
		to 0.02C (CC/CV)
	Max. Charge Current	100A
Discharge	Max. Continuous Discharge Current	100A
	Discharge Cut-off Voltage	9.5-10.5V
Environmental	Charge Temperature Range	0°C~60°C
	Discharge Temperature Range	<b>-10</b> ℃ <b>~60</b> ℃
	Optimum Operation Temperature	<b>10°℃~35°</b> ℃
	Storage Temperature	-20℃~55℃
		≤85% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Case	ABS
	Terminals	M8
	Dimensions	483*170*240mm
	Max. Weight	23kg
	Min. Gravimetric Specific energy	110Wh/kg
Others	Communication port	Not available
	Parallel in maximum	4pcs
	Serial in maximum	Not available

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