

## IP-12200-H-BT HYBRID LIFEPO4 BATTERY (12.8V/200Ah)



3-yr warranty



LiFePo4 IP67 UN38.3

Length 376mm/14.8in      Width 194mm/7.63in      Height 227mm/8.94in

### BATTERY TECH DATA

Stored energy	2560Wh
Rated capacity	200Ah
Nominal voltage	12.8V
Volt range	10V-14.6V
Charge time	Standard 5.5h Rapid 1.5h
Charge method	Standard 40A/14.6V
CC-CV	Rapid 150A/14.6V
Max discharge current	Crank 1500A Surge (60S) 300A Continuous 100A
Cycle life	10% >6000 cycles 0.5C, 23°C/73°F 100% >2000 cycles
Operating temperature range	Charge 0°C~55°C/ 32°F~131°F Discharge -20°C~60°C/ -4°F~140°F Storage(1month) -20°C~45°C/ -4°F~113°F Storage(6month) -10°C~35°C/ 14°F~95°F
Water proof	IP67
Flammability rating	UL94-V0
Approx weight	19.8Kg/ 43.6lbs

Series & parallel connection Max 4 series connection. Multiple parallel connection for yachts. Batteries must be the same volt before series or parallel connection.

### BATTERY VOLT&STATUS

SOC	20A discharge	OCV
100%		13.4V
90%	13.19V	13.3V
80%	13.17V	13.3V
70%	13.15V	13.3V
60%	13.05V	13.2V
50%	12.99V	13.15V
40%	12.98V	13.14V
30%	12.94V	13.1V
20%	12.79V	12.79V
10%	12.61V	12.8V

### BMS PROTECTION

Balance	Current	40mA
	Activate volt	3.55V/ cell
High temperature protection(MOSFET)	Protection	85°C/ 185°F
	Release	75°C/ 167°F
High temperature protection (cell)	Protection	65°C/149°F (charge) 70°C/158°F (discharge)
	Release	55°C/131°F (charge) 60°C/140°F (discharge)
Low temperature protection (cell)	Protection	0°C/32°F (charge) -20°C/ -4°F (discharge)
	Release	10°C/50°F (charge) -10°C/ 14°F (discharge)
Over-charge	Protection	15.4 V (3.85V/cell)
	Release	14.6 V (3.65V/cell)
Over-discharge	Protection	9.2V (2.3V/cell)
	Release	10.0V (2.5V/cell)
Short-circuit	Protection	3800A
	Release	Remove load for the short circuit protection to release

### APPLICATION SCENARIOS



BOAT



TROLLING MOTOR



DUMP TRAILER



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HOME