



**S220 PRO LIFEPO4 BATTERY DATA SHEET(12.8V/220Ah)**

**Comply with MERCURY marine starting lithium battery standard**

**NMEA2000 compliance**



**IP67 UN38.3**

**Communication protocol:  
NMEA2000, CANBUS, 485**

Length	Width	Height
378mm	205mm	257mm
14.9in	8.1in	10.1in

BATTERY TECH DATA	
Stored energy	2816Wh
Rated capacity	220Ah
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 800A@8S -7°C
	Surge (60S) 400A
	Continuous 200A
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	21.3kg/46.9lbs
Series & parallel connection	Max 12 parallel connection. Series connection is not available. Batteries must be the same volt before parallel connection.

BMS PROTECTION		
Balance	Current	40mA
	Activate volt	3.55V/ cell
High temperature protection(MOSFET)	Protection	115°C/ 239°F
	Release	90°C/ 194°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	-5°C/ 23°F ( charge)
		-20°C/ -4°F (discharge)
	Release	0°C/32°F (charge)
		-15°C/ 59°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



TRAILER



MOTORHOME



HOME