



VICTRON protocol compatible

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

**NMEA2000 COMPLIANCE**

Comply with MERCURY marine starting lithium battery standard

**IP67**
**UN38.3**



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

**BATTERY TECHDATA**

Store energy	2816Wh
Rated capacity	220Ah
Nominal voltage	12.8V
Volt range	10V-14.4V
Charge time	Standard 5.5h
	Rapid 1.5h
Charge method CC-CV	Standard 40A/14V
	Rapid 150A/14V
Max discharge current	Crank 1800A
	Surge (60S) 400A
	Continuous 200A
Cycle life 0.5C,23°C/73°F	50% >7000cycles
	100% >2000cycles
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 not supported. Up to 8 in parallel.

Series & parallel connection Batteries must be fully charge before parallel connection. Contact manufacturer to parallel more units.

**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/ 5°F (discharge)
Over-charge	Protection	15.4V (3.85V/cell)
	Release	14.6V (3.65V/cell)
Over-discharge	Protection	9.2V (2.3V/cell)
	Release	10V (2.5V/cell)
Short-circuit	Protection	3800A
	Release	Remove load for the short circuit protection to release
Heating (optional)	Action	Temp≤5°C & charge current ≥2A
	Stop	Temp ≥15°C or charge current <2A
	Power	120W, recommend to use 14V 10A or higher power charger

**APPLICATION SCENARIOS**



BOAT



TROLLING MOTOR



DUMP TRAILER



TRAILER



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