



VICTRON protocol compatible

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

NMEA2000 COMPLIANCE

Comply with MERCURY marine starting lithium battery standard



Length	Width	Height
378mm	205mm	257mm
14.9in	8.1in	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% >7000 cycles
	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 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



MOTORHOME



HOME