

**E440 LIFEPO4 BATTERY
DATA SHEET(12.8V/440Ah)**
NMEA2000 protocol compatible


CE
IP67 UN38.3
FC



Length	Width	Height
520mm	268mm	220mm
20.5in	10.6in	8.7in

BATTERY TECH DATA

Stored energy	5632Wh	
Rated capacity	440Ah	
Nominal voltage	12.8V	
Volt range	10V-14.4V	
Charge time	Standard	5h
	Rapid	2.2h
Charge method CC-CV	Standard	90A/14V
	Rapid	200A/14V
Max discharge current	Continuous	200A
Cycle life 0.5C, 23°C/73°F	50%	>7000cycles
	100%	>2000cycles
Operating temperature range	Charge	0°C~45°C / 32°F~113°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 / -4°F~95°F
Water proof	IP67	
Self-consumption	Working	≤40mA
	Hibernate	≤100μA
Approx weight	50kg / 110.2lbs	

Series & parallel connection
Max 8 batteries in parallel connection.
Series connection is not available.
Batteries must be fully charge before parallel connection.

BMS PROTECTION

Balance	Current	50mA
	Activate volt	3.55V/ cell
	Cell Voltage difference	> 20mV
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)
Charge Over-current	Protection	250A@1S
	Release	Wait for 60S or discharge current > 1A. After 10 triggers, battery must be restarted to release protection.
Discharge Over-current	Protection	900A@1S
	Release	Wait for 60S or charge current > 1A. After 10 triggers, battery must be restarted to release protection.
Over-charge	Protection	15.2V (3.8V/cell)
	Release	13.52V (3.38V/cell) or discharge current > 1A
Over-discharge	Protection	10V (2.5V/cell)
	Release	11.8V (2.8V/cell)
Short-circuit	Protection	1800A
	Release	Remove load for the short circuit protection to release

APPLICATION SCENARIOS


BOAT



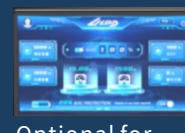
TROLLING MOTOR



TRAILER



MOTORHOME



Optional for Lilead Display

 Communication Protocol:
Canbus/RS485