

**E110 LIFEPO4 BATTERY  
DATA SHEET(12.8V/110Ah)**
**NMEA2000 protocol compatible**


CE  
IP67 UN38.3  
FC



Length	Width	Height
330mm	175mm	220mm
13in	6.9in	8.7in

**BATTERY TECH DATA**

Stored energy	1344Wh	
Rated capacity	110Ah	
Nominal voltage	12.8V	
Volt range	10V-14.4V	
Charge time	Standard	5h
	Rapid	1.2h
Charge method	Standard	22A/14V
	CC-CV	Rapid 100A/14V
Max discharge current	Continuous	100A
Cycle life	50%	>7000cycles
	0.5C,23°C/73°F	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	12kg /26.46lbs	

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	400A@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	800A
	Release	Remove load for the short circuit protection to release

**APPLICATION SCENARIOS**


BOAT



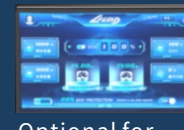
TROLLING MOTOR



TRAILER



MOTORHOME



Optional for Lilead Display

 Communication Protocol:  
Canbus/RS485