

**E48125-ESS LIFEPO4 BATTERY
DATA SHEET(51.2V/125Ah)**

VICTRON protocol compatible

CE
IP67 UN38.3
FC



**Communication protocol:
CANBUS, 485**

| BATTERY TECH DATA | |
|--|--|
| Stored energy | 6400Wh |
| Rated capacity | 125Ah |
| Nominal voltage | 51.2V |
| Volt range | 40V-57.6V |
| Charge time | Standard 4.5h |
| | Rapid 1.5h |
| Charge method CC-CV | Standard 30A/56V |
| | Rapid 125A/56V |
| Max discharge current | Surge(10min) 200A |
| | Continuous 125A |
| 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 |
| Approx weight | 63kg /138.9lbs |
| Max 18 batteries in parallel | |
| Series & parallel connection. Series connection is not available. Batteries must be fully charge before parallel connection. | |

| Length | Width | Height |
|--------|-------|--------|
| 592mm | 355mm | 205mm |
| 23.3in | 14in | 8.07in |

| BMS PROTECTION | |
|---|---|
| Balance | Current 50mA |
| | Activate volt 3.55V/ cell |
| Cell Voltage difference > 20mV | |
| High temperature protection(MOSFET) | Protection 95°C / 203°F |
| | Release 70°C / 158°F |
| High temperature protection (cell) | Protection 60°C/140°F (charge) |
| | 65°C/149°F (discharge) |
| Low temperature protection (cell) | Release 50°C/122°F (charge) |
| | 55°C/131°F (discharge) |
| Over-charge | Protection 60V (3.75V/cell) |
| | Release 54.08V (3.38V/cell) |
| or discharge current >1A | |
| Over-discharge | Protection 35V (2.5V/cell) |
| | Release 39.2V (2.8V/cell) |
| Short-circuit | Protection 800A |
| | Release Remove load for the short circuit protection to release |

**APPLICATION
SCENARIOS**

BOAT

HOME

TRAILER

MOTORHOME

 Optional for
Lilead Display