

**E48280-ESS LIFEPO4 BATTERY  
DATA SHEET(51.2V/280Ah)**

**VICTRON protocol compatible**

**Communication protocol:  
CANBUS, 485**
**BATTERY TECH DATA**

Stored energy	14336Wh	
Rated capacity	280Ah	
Nominal voltage	51.2V	
Volt range	40V-57.6V	
Charge time	Standard	5.5h
	Rapid	1.5h
Charge method CC-CV	Standard	56A/56V
	Rapid	200A/56V
Max discharge current	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	
Approx weight	140kg/308lbs	

Max 24 batteries in parallel

Series &amp; parallel connection. Series connection is not available. Batteries must be fully charge before parallel connection.

<b>Length</b>	<b>Width</b>	<b>Height</b>
800mm	441mm	240.1mm
31.5in	17.36in	9.45in

**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)
	Release	50°C / 122°F (charge) 55°C / 131°F (discharge)
Low temperature protection (cell)	Protection	0°C / 32°F (charge) -20°C / -4°F (discharge)
	Release	5°C / 41°F (charge) -15°C / 5°F (discharge)
Over-charge	Protection	58.4V (3.65V/cell)
	Release	54.08V (3.38V/cell) or discharge current > 1A
Over-discharge	Protection	44.8V (2.8V/cell)
	Release	49.6V (3.1V/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