

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

VICTRON protocol compatible

CE
IP67 UN38.3
FC



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%	>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	
Approx weight	119kg / 308lbs	

Max 24 batteries in parallel
Series & parallel connection. Series connection is not available. Batteries must be fully charge before parallel connection.

Length	Width	Height
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