

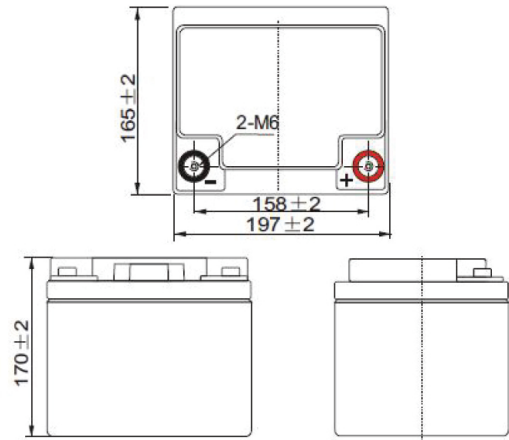
Lithium Iron Phosphate (LiFePO₄) Battery

■ Specifications

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	40AH
	Energy	512Wh
	Internal Resistance	≤ 20mΩ
	Cycle Life	>2000 cycles at 0.2C 100% DOD
	Self Discharge Per Month	<3%
	Efficiency of Charge	Near 100% @ 0.5C (when used with proper LiFePO ₄ charger)
	Efficiency of Discharge	96 ~ 99% @ 1C
Charge	Charge Voltage	14.6 ± 0.2V
	Charge Mode	CC at 0.2C to 14.6V, then at CV14.6V to charge current less than 0.02C
	Charge Current	9A
	Max. Charge Current	20A
	Over Voltage Protection	14.6V ± 0.2V
Discharge	Max. Continuous Current	40A (not for Cycle Life)
	Max. Pulse Current	80A (<3s)
	Discharge Cut-off Voltage	8V (10V Recommended)
Environmental	Charge Temperature	0°C to 45°C (32°F to 113°F) at 60 ± 25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4°F to 140°F) at 60 ± 25% Relative Humidity
	Storage Temperature	0°C to 40°C (32°F to 104°F) at 60 ± 25% Relative Humidity
	Water/Dust Resistance	IP56
Mechanical	Cell Material	LiFePO ₄
	Plastic Case	ABS
	Dimensions (in./mm)	7.56 x 6.50 x 6.69 / 197 x 165 x 170
	Weight (lbs./kg.)	12.68 / 5.75
	Terminal Type	M6
BMS	Protection Function	Over charge. Over discharge. Over current. Short circuit, Balancing, Temperature.

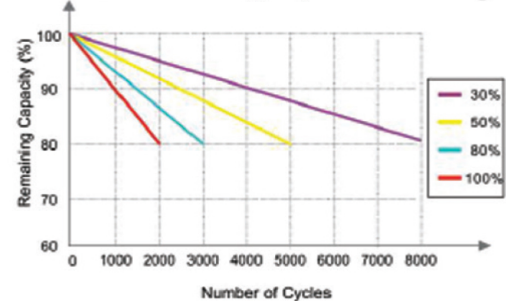


■ Physical Dimensions

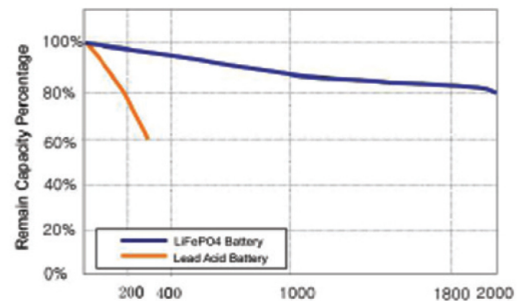


■ Discharge Characteristics

Different DOD Discharge Cycle Life Curve @ 1C



Cycle Life Performance Curve @ 25°C



Zeus Battery highly recommends to use LiFePO₄ charger suitable for each battery for optimum charge performance