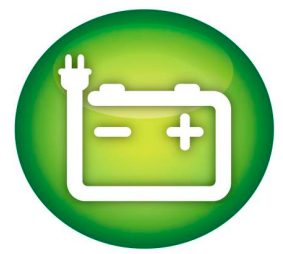


# LFP12-84 12.8V 84Ah



## LiFePO4 batteries with internal BMS

**Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.

**Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

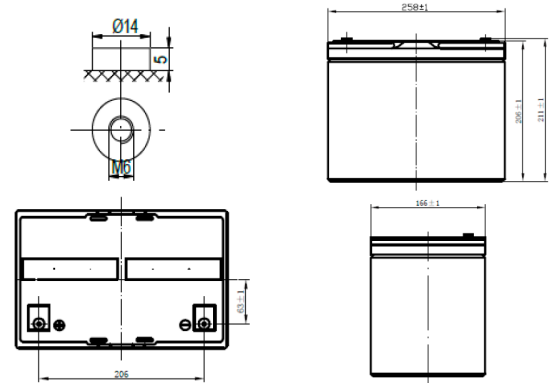
**Wider Temperature Range:** -20 C~60 C.

**Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

## Performance Characteristics

Nominal Voltage	12.8V
Nominal Capacity	84Ah
Energy	1075,2Wh
Internal Resistance(AC)	≤20mΩ
Cycle Life	>2000 cycles @ 1C 100%DOD
Months Self Discharge	<3%
Efficiency of charge	100% @ 0.5C
Efficiency of Discharge	96~99% @ 1C
Charge Voltage	14.6±0.2V
Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
Charge Current	42A (0.5C)
Max. Charge Current	84A (1C)
Charge Cut-off Voltage	14.6V±0.2V
Rated Discharge Current	42A (0.5C)
Max. Discharge Current	84A (1C)
Discharge Cut-off Voltage	10V
Peak Discharge Current	160A @ 10s
Charge Temperature	0°C to 55°C @ 60±25% Relative Humidity
Discharge Temperature	-20°C to 60°C @ 60±25% Relative Humidity
Storage Temperature	-20°C to 45°C @ 60±25% Relative Humidity
IP Class	IP65
Plastic Case	ABS
Approx. Dimensions	258mm*166mm*211mm
Approx. Weight	11kg
Terminal	M6
Communication Interface	none
Protection	Over charge, Over discharge, Over temperature, Short circuit
Certification	UN38.3, CE
Parallels Support	-
Series Support	Max, 4 Sets

## Physical Dimension (mm)

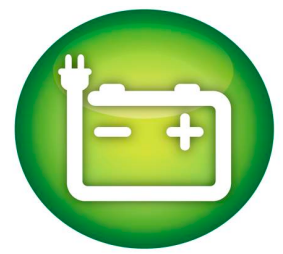


## Applications

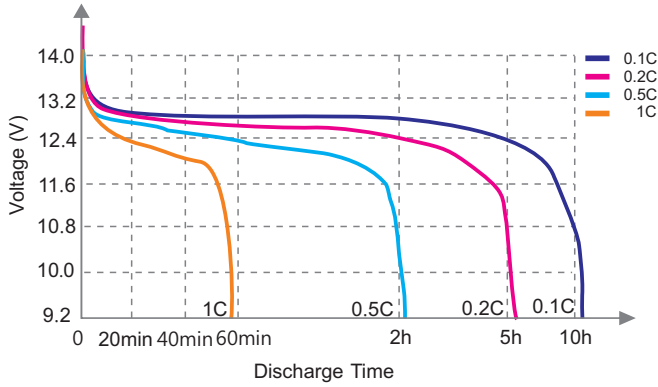
Wheelchairs and scooters  
Solar and wind energy storage  
Back-up power for UPS  
Golf trolleys & buggies  
Electric bikes and electric motors  
Motorhomes and caravans  
Boats and camping  
Service and security

(Note) The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

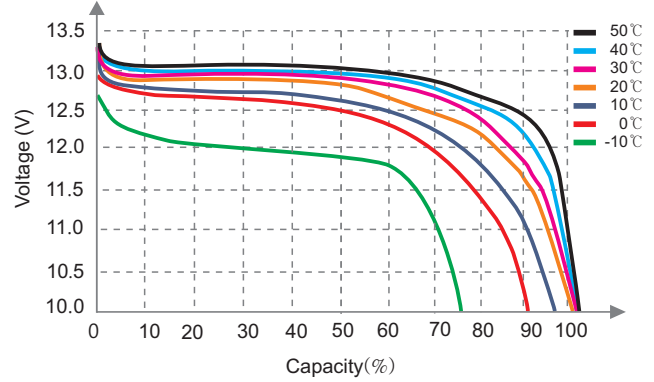
# LFP12-84 12.8V 84Ah



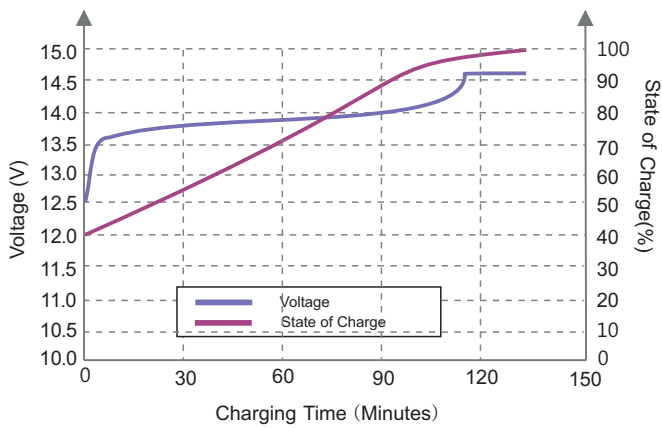
## Different Ratio Discharge Curve (25°C)



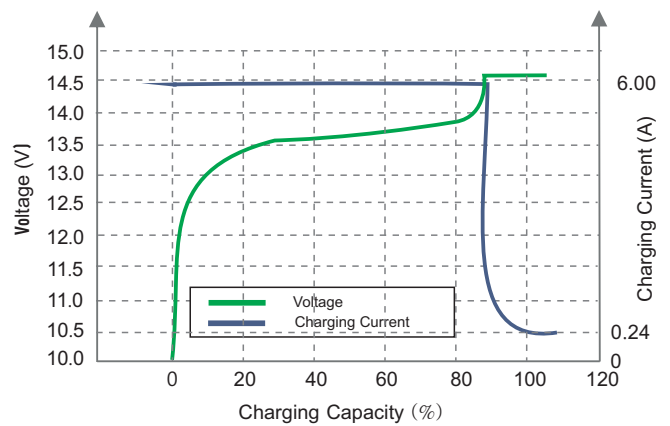
## Different Temperature Discharge Curve (0.5C)



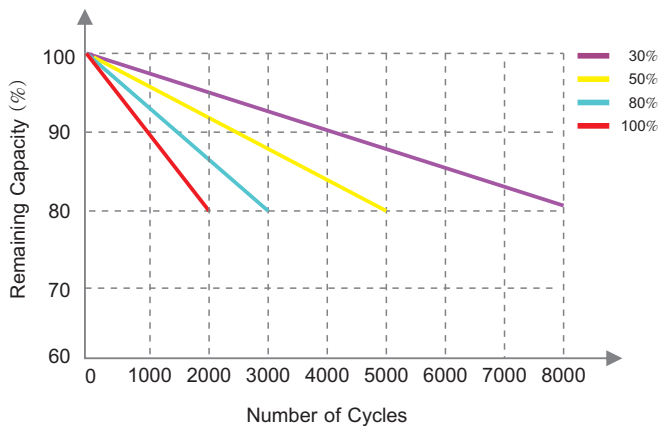
## State of charge Curve (0.5°C, 25°C)



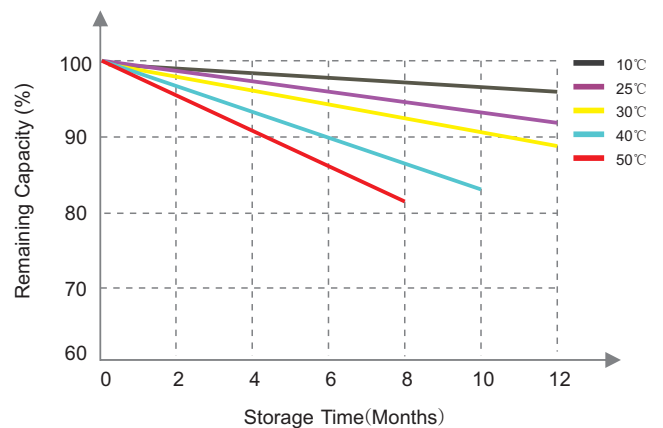
## Charging Characteristics (0.5°C, 25°C)



## Different DOD Discharge Cycle Life Curve(1C)



## Different Temperature Self Discharge Curve



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.