

# TAB E.Leisure premium

Lithium Iron Phosphate Battery



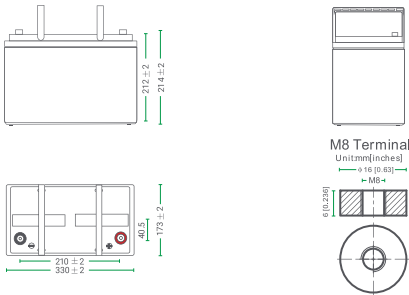
HD12.8-100  
12.8V | 100Ah | 1280Wh

## Features of LiFePO4 Battery

- 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.



## Physical Dimension



## Application



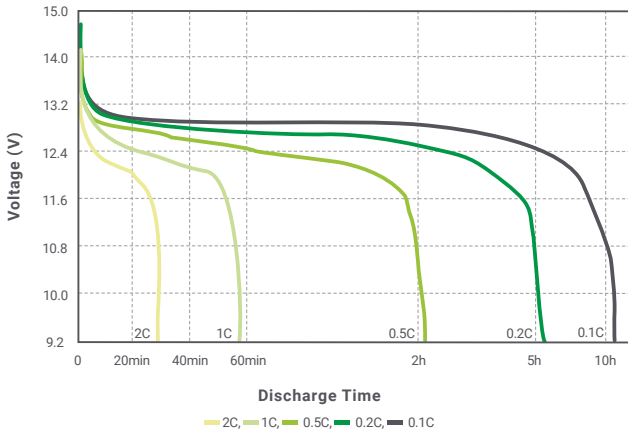
- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

## Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah (C5,25°C)
	Energy	1280 Whm
	Internal Resistance	≤60mΩ
	Cycle Life	>4000 cycles
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6V±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V charge current to 0.02C(CC/CV)
	Charger Current	50A
	Max. Charge Current	100A
Standard Discharge	Charge Cut-off Voltage	15.6V±0.2V
	Continuous Current	100A
	Max. Pulse Current	120A(<3s)
Environmental	Discharge Cut -off Voltage	10V
	Charge Temperature	0°C to 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-22F to 140F) @60±25% Relative Humidity
	Storage Temperature	-0°C to 40°C (-32F to 104F) @60±25% Relative Humidity
Mechanical	Water Dust Resistance	IP56
	Cell & Method	18650 4S66P
	Plastic Case	ABS
	Dimensions (mm)	330*173*212mm
	Weight (kg)	11,6 kg
Features	Terminal	M8
	Bluetooth / RS485 / RS232 / SMBus / CANBus SOC LED / LCD Indicator	

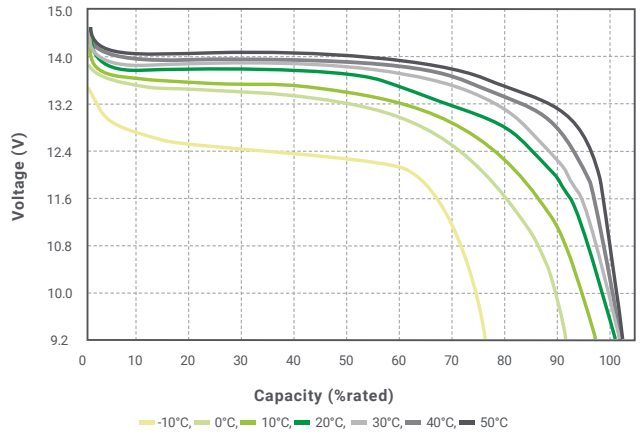
### Different Rate Discharge Curve

Different Rate Discharge Curve @ 25°C



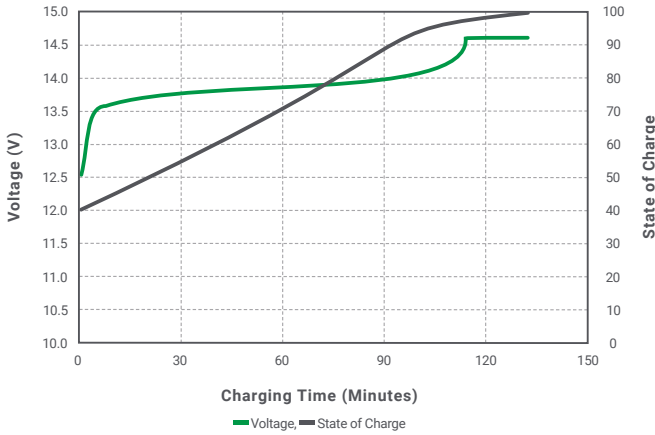
### Different Temperature Discharge Curve

Different Temperature Discharge Curve @ 0.5



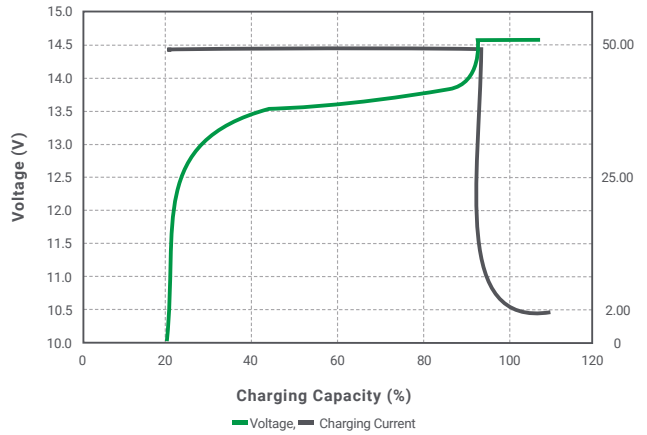
### Characteristics Curve

State of Charge Curve @0.5C 25°C



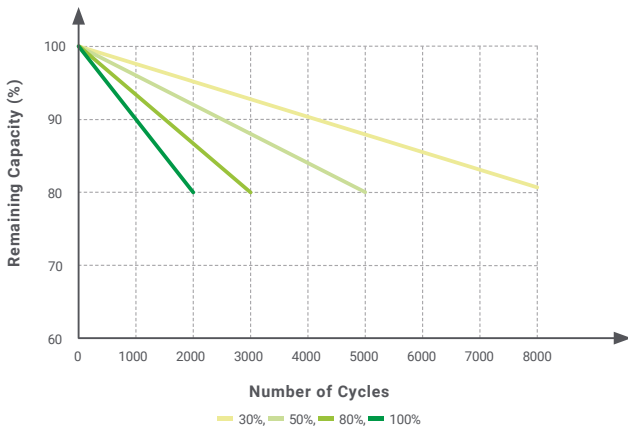
### Characteristics Curve

Charging Characteristics @0.5C 25°C



### Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



### Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

