

# U48100X-6 LiFePO4 Battery

## 1.Feature of LiFePO4 Battery

- **Longer Cycle Life:** Offers up to 10times longer cycle life and 5 \times longer float/calendarlife 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 forlead acid battery.
- **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintain 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, over charging or short circuit situation.
- **No Memory Effect:** Support unstable partialstate of charge (UPSOC) (charge/discharge)utilization.

## 2.Product Photo

### ● U-P48100X-6



## 3.Functions Of BMS

- Over charge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection function
- Short circuit detection function
- Balance function

## 4.Application

- Electrical vehicles
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting...

## 5.Specification

	Model	U-P48100X-6
Electrical Characteristics	Nominal Voltage	48V
	Nominal Capacity	100Ah
	Energy	4800Wh
	Cycle Life	≥5000 cycles@80%DOD,25°C, 0.5C
	Design Life	≥15 years
	Months Self Discharge	≤2%,@25°C
Charge	Charge Cut-off Voltage	54.75V±0.5V
	Floating charge voltage	52.5 ± 0.5V
	Charge Mode	1C to 54.0V,then 54.0V charge current to 0.02C(CC/CV)
	Charge Current	100A
Discharge	Continuous Current	100A
	Discharge Cut-off Voltage	42V±0.5V
Environmental	Charge Temperature	0°C-45°C (Under 5°C extra heating mechanism)
	Discharge Temperature	-20°C-60°C (Under 0°C work with reduced capacity)
	Storage Temperature	0°C-40°C @60%±25% relative humidity
	Water Dust Resistance	IP21
Mechanical	Method	15S1P
	Plastic Case	Iron(Insulation Painting)
	Dimensions	442*400*221(mm)
	Weight	48Kg(APPROX)
	Gravimetric Specific Energy	100Wh/Kg
Other	Protocol(optional)	RS485/RS232/Modbus
	SOC Light	4*LED