

Baykee 48V 100Ah 3U Battery

Lithium Iron Phosphate (LiFePO₄)



Salient Feature

- Longer Life Cycles: ~20 times longer life cycles and ~5 times longer float/shelf life as compare to Lead Acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Lighter Weight: 40% lighter than lead acid batteries.
- Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wider Temperature Range: 0°C~55°C.
- Superior Safety: Eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

Specifications of LiFePO₄ Batteries

Applications of LiFePO₄ Batteries

- Telecommunication
- Solar/ Wind Energy Storage System
- UPS (Backup Power)
- Medical Equipment
- Lighting
- Electric Vehicles, Electric Mobility
- Marine
- Robotics

Technical Parameters

Electrical Characteristics	Nominal Voltage	48V
	Nominal Capacity	100Ah
	Energy	4800Wh
	Internal Resistance	≤20mΩ
	Cycle Life	>6000 at 80% DOD 1C/1C
	Months Self Discharge	<3%
	Efficiency of Discharge	96~99% @0.5C
Standard Charge	Charge Voltage	54V±0.2V
	Charge Mode	0.5C to 54V, then @ 54 V charge current to 0.02C(CC/CV)
	Recommended Charge Current	30A
	Max. Charge Current	1C
Standard Discharge	Recommended Discharge Current	30A
	Max. Discharge Current	1C
	Discharge Cut-off Voltage	37.5V

Product Specification

Environmental	Charge Temperature	0 °C to 55 °C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity
Front Panel	Status Indicator	SOC / ALM / RUN
	Communication Ports	RS232 / RS485/ CAN
	Communication in Parallel	16 modules in Parallel
	Terminal Size	M8 (Screw size)
	IP Rating	IP20
	LCD Screen	Optional
	Breaker	Standard
Mechanical	Plastic Case	SPCC
	Dimensions (mm)	480*430*133
	Weight(kg)	43Kg

Constant Current Discharge Data (Amperes @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off Voltage (37.5V)	100A	50A	33.2A	25A	20A	10A	5A

Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off Voltage (37.5V)	4800W	2400W	1600W	1200W	960W	480W	240W