

STARMAX

LITHIUM IRON BATTERIES

48V LITHIUM IRON PHOSPHATE (LIFEPO4)



The world's leading battery brand



www.starmaxbatteries.com

48V LITHIUM IRON PHOSPHATE BATTERY

(LIFEPO4)

Lithium iron Phosphate battery (LiFePO₄) has a nominal voltage of 48VDC. It is comprised by 16 cells of 3.2V each. The internal structure of LiFePO₄ battery cell is shown in the figure on the right. Shown is the olivine structure of LiFePO₄ as the positive electrode of cell. Aluminum foil functions as current collector of positive pole. A polymer membrane separates positive and negative electrodes of the cell.



Typical Applications

- Wireless Hut back-up power
- Wireless Repeater back-up
- Fiber-Optic access network back-up power
- Outdoor Billboard lighting
- 48V Switchgear & Control Back-up Power
- Long duration Industrial UPS Systems
- FTTB & LAN/WIFI Connection Power
- Street & Highway Monitoring & Surveillance

Features

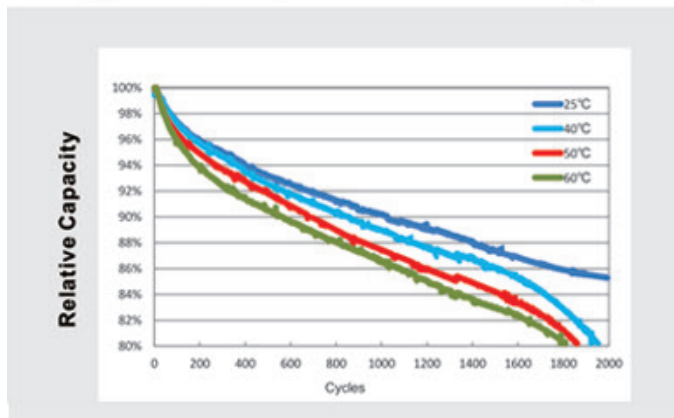
- 1.Lithium iron phosphate (LiFePO₄) is used as positive material, which offers extended cycle life and good safety performance.
- Embedded BMS offers voltage, current, temperature protection and alarm functions. BMS can communicate with other device by modbus protocol.
- Embedded BMS unit measures current, voltage, single cell surface temperature and the ambient temperature of the battery.
- Embedded BMS offers four remote functions which can communicate with far-end central control center by computer management.
- The combination of BMS and computer management technology can achieve real-time monitoring and control of various parameters and status.
- The power system has secondary cut-off protection and when the voltage is too low the system will cut off the support from the battery to protect the battery service life.
- Under normal operating conditions, the entire system emits very little noise due to their passive cooling design.
- Good electromagnetics shielding.



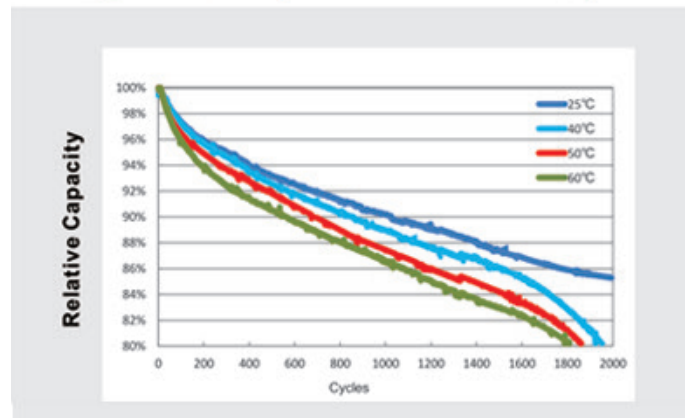
Specifications

Features	Nominal	Rated	Approx Dimension(mm)	Remarks
	Voltage	Capacity	Length*Width*Height	
	V	Ah	(Don't include the handle)	
LFeLi-4810S	48V	10	442*290*44	Can not in parallel
LFeLi-4820S	48V	20	442*330*88	Can not in parallel
LFeLi-4850C	48V	50	442*442*132	Can in parallel
LFeLi-4850T	48V	50	442*442*132	Can in parallel
LFeLi-4875C	48V	75	442*399*177	Can in parallel
LFeLi-48100	48V	100	442*450*132	Can in parallel
LFeLi-48100F	48V	100	500*230*260	Can in parallel
LFeLi-48100T	48V	100	442*450*177	Can in parallel
LFeLi-48100E15	48V	100	442*450*132	Can in parallel
LFeLi-48150T	48V	150	442*550*177	Can in parallel
LFeLi-48200T	48V	200	442*520*244	Can in parallel

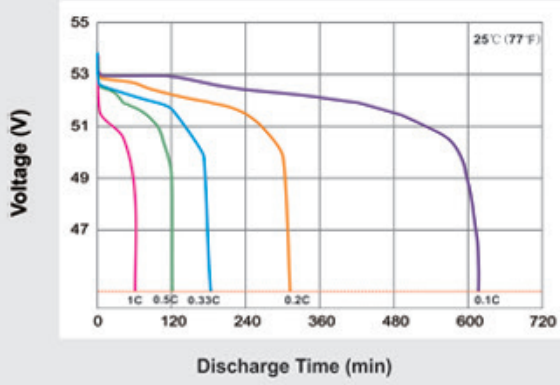
A/B Type 100% DOD Cycle Curves at different Temperature



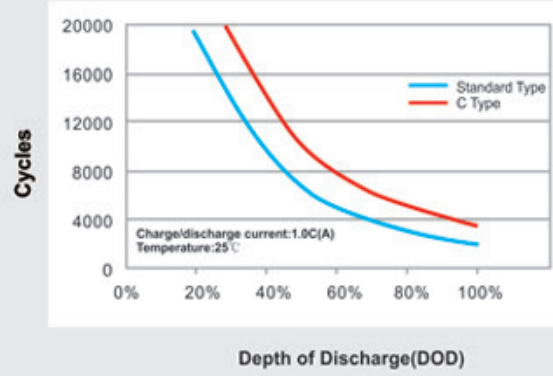
A/B Type 100% DOD Cycle Curves at different Temperature



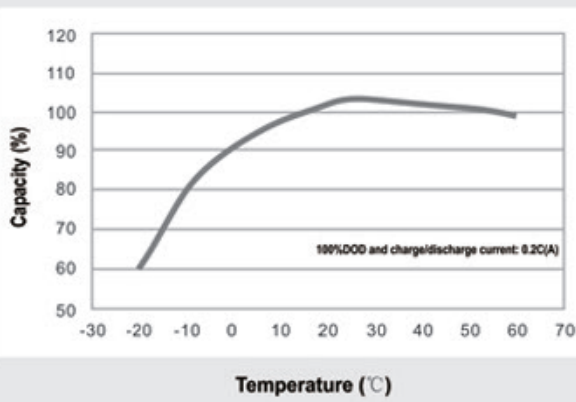
Discharge Time in relation to Discharge Rate



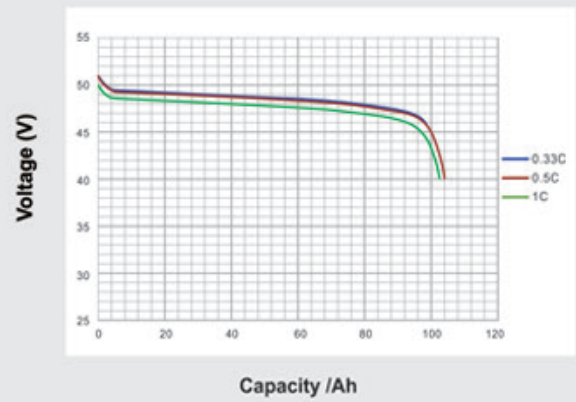
Depth of Discharge in relation to Cycle Life



Temperature Effect in relation to Battery Capacity



Discharge Capacity in relation to Discharge Rate





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