

Lithium Iron Phosphate (LiFePO4) Battery LFeLi-1204M (12.8V4.0Ah)

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-mm



Typical Applications

- Wheelchairs and scooters
- Solar/wind energy storage
- Back-up power for small UPS
- Golf trolleys & buggies
- Electric bikes
- Tools

Specification

	T	I
	Nominal Voltage	12.8V
	Nominal Capacity	4Ah
	Energy	51.2Wh
Electrical	Internal Resistance(AC)	≤20mΩ
Characteristics	Cycle Life	>3000 cycles @0.5C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	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	2A
	Max. Charge Current	4A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Rated Discharging Current	2A
	Max. Discharge Current	4A
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0 $^{\circ}$ C to 55 $^{\circ}$ C (32F to 131F) $@60\pm25\%$ Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	-20 $^{\circ}\mathrm{C}$ to 45 $^{\circ}\mathrm{C}$ (-4F to 113F) $@60\pm25\%$ Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	90mm*70mm*107mm (3.54in.*2.76in.*4.21in.)
	Approx. Weight	0.5kg (1.1lbs)
	Terminal	T1

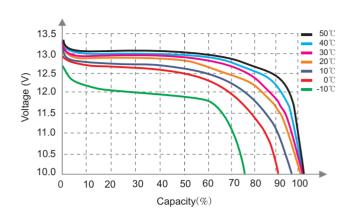


Lithium Iron Phosphate (LiFePO4) Battery LFeLi-1204M (12.8V4.0Ah)

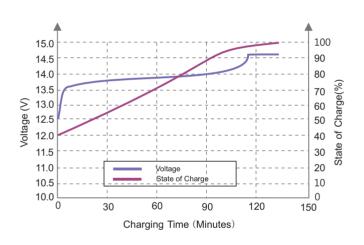
Different Rate Discharge Curve(25°C)

0.1C 0.2C 0.5C 1C 2C 14.0 13.2 Voltage (V) 12.4 11.6 10.8 10.0 0.2C 0.1C 9.2 10h 0 20min 40min 60min 2h 5h Discharge Time

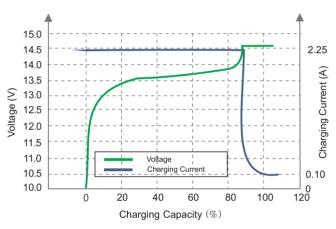
Different Temperature Discharge Curve(0.5C)



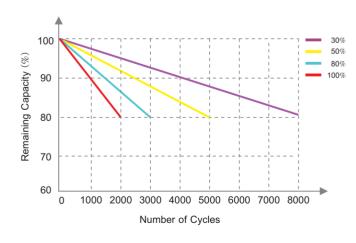
State of Charge Curve(0.5C, 25°C)



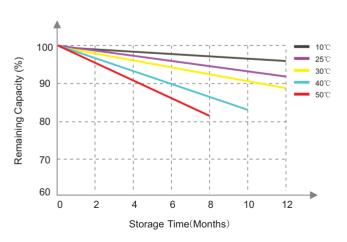
Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(0.5C)



Different Temperature Self Discharge Curve



Publication No :LB-LFeLi-1204M-PD-EN-V2.0-202208

Http://:www.leoch.com
Libattery@leoch.com
Leoch International Technology Limited
Add:5th Floor, Xinbaohui Bldg., Nanhai Blvd, Nanshan, Shenzhen, China. 518054

© 2022 LEOCH. All rights reserved. Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted. Subject to revisions without prior notice.

