

Lithium Iron Phosphate (LiFePO4) Battery LFeLi-1212M (12.8V12Ah)

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.

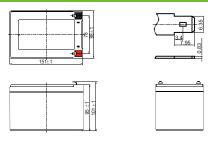
Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

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

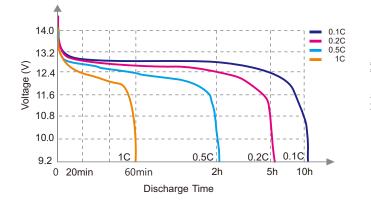
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	12Ah
	Energy	153.6Wh
	Internal Resistance(AC)	≤ 20m Ω
	Cycle Life	>3000 cycles @ 0.5C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0. 02C (CC/CV)
	Charge Current	6A
	Max. Charge Current	12A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Rated Discharge Current	6A
	Max. Discharge Current	12A
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0 $^\circ \!\! C$ to 55 $^\circ \!\! C$ (32F to 131F) $@60{\pm}25\%$ Relative Humidity
	Discharge Temperature	–20 $^\circ\!\!\mathbb{C}$ to 60 $^\circ\!\!\mathbb{C}$ (–4F to 140F) $@60{\pm}25\%$ Relative Humidity
	Storage Temperature	–20 $^\circ\!\!\mathbb{C}$ to 45 $^\circ\!\!\mathbb{C}$ (-4F to 113F) $@60{\pm}25\%$ Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	151mm*98mm*101mm (5.94in.*3.86in.*3.98in.)
	Approx. Weight	1.40kg (3.09lbs)
	Terminal	T2





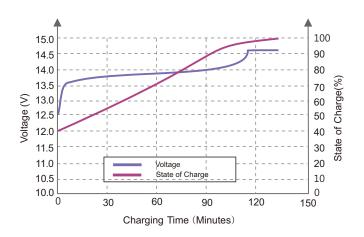
Lithium Iron Phosphate (LiFePO4) Battery LFeLi-1212M (12.8V12Ah)

Different Temperature Discharge Curve(0.5C)

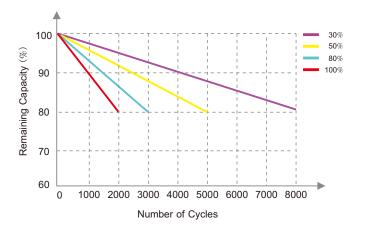


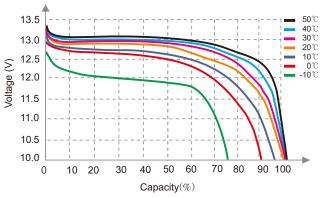
Different Rate Discharge Curve(25℃)

State of Charge Curve(0.5C, 25°C)

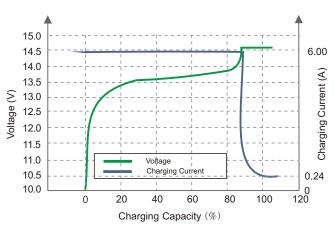


Different DOD Discharge Cycle Life Curve(0.5C)

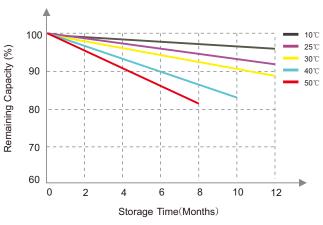




Charging Characteristics(0.5C, 25°C)



Different Temperature Self Discharge Curve



Publication No :LB-LFeLi-1212M-PD-EN-V2.0-202208

© 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.



Http//:www.leoch.com

Libattery@leoch.com

Leoch International Technology Limited

Add:5th Floor, Xinbaohui Bldg., Nanhai Blvd, Nanshan, Shenzhen, China. 518054

