

# **Lithium Iron Phosphate (LiFePO4) Battery LFeLi-24100M (25.6V100Ah)**

# Features Of LiFePO<sub>4</sub> 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.

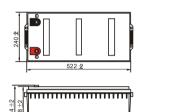
**Higher Power**: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

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**







# **Application**

- Electric vehicles, electric mobility
- Solar/wind energy storage system
- Telecommunication
- Medical equipment
- Lighting

# **Specification**

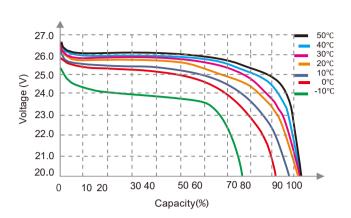
Electrical Characteristics	Nominal Voltage	25.6V
	Nominal Capacity	100Ah
	Energy	2560Wh
	Internal Resistance(AC)	≤20m Ω
	Cycle Life	>3000 cycles @0.5C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	29. 2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2V, charge current to 0. 02C (CC/CV)
	Charge Current	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	29.2V±0.2V
Standard Discharge	Rated Discharge Current	50A
	Max. Discharge Current	100A
	Discharge Cut-off Voltage	20V
Environmental	Charge Temperature	0 $^{\circ}$ C to 55 $^{\circ}$ C (32F to 131F) @60 $\pm$ 25% Relative Humidity
	Discharge Temperature	–20 $^{\circ}$ C to 60 $^{\circ}$ C (−4F to 140F) @60 $\pm$ 25% Relative Humidity
	Storage Temperature	0 $^{\circ}\mathrm{C}$ to 45 $^{\circ}\mathrm{C}$ (32F to 113F) @60 $\pm$ 25% Relative Humidity
	IP Class	IP65
	Plastic Case	ABS
	Dimensions (in./mm.)	522*240*224mm (20.55"*9.45"*8.81")
	Weight (lbs./kg.)	29.6kg (65.257lbs)
Mechanical	Terminal	M8



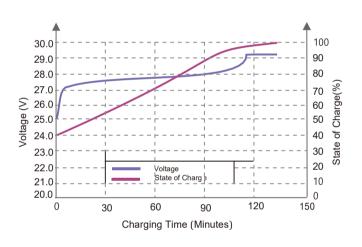
# **Different Rate Discharge Curve(25℃)**

#### 

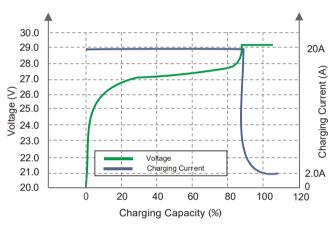
# Different Temperature Discharge Curve(0.5C)



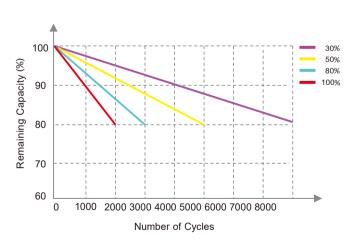
# State of Charge Curve(0.2C, 25°C)



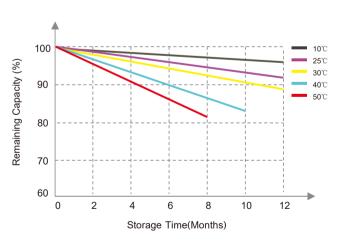
# Charging Characteristics (0.2C, 25℃



# Different DOD Discharge Cycle Life Curve(0.5C)



### Different Temperature Self Discharge Curve



© 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

Publication No :LB-LFeLi-24100M-PD-EN-V2.0-202208



+49 (0)6081 96582-0





Power Storage Deutschland GmbH