



LITHIUM



普蓝储能
PULAN ENERGY STORAGE



The energy of the future

Features of Lithium Iron Phosphate LiFePO4 Batteries

Fast Charging

Experience the rapid charging capabilities with our cutting-edge LTO batteries and high-power charging stations. A single cell achieves full recharge in an astonishingly brief 6 minutes, enabling electric vehicles to charge swiftly, completing the process well under 20 minutes.

Wide Temperature Ranges

lithium-titanate-oxide batteries boast an expansive operating temperature range from -40°C to +60°C Excelling in both extreme cold and hot conditions, these batteries operate optimally without the necessity for any supplementary equipment to sustain their functionality.

Long LTO Battery Life-span

Our LTO batteries feature cutting-edge "Zero-Strain-Material, meticulously crafted for an impressive lifespan of 30,000 full depth-of-discharge cycles. This durability exceeds competing lithium-ion technologies by up to six times, ensuring a remarkable lifespan of up to 30 years

High Charge/Discharge Capability

In contrast to carbon materials, LTO batteries have superior lithium ion diffusion coefficient, facilitating high-intensity charging and discharging rates. This capability not only ensures rapid charging but also enables the batteries to deliver high-power outputs tailored to meet specific demands.

Designed With Safety-First

Our LTO cells, lacking a solid electrolyte Interphase (SEI) layer, has exceptional safety and resilience and can withstand cutting or puncturing. Rigorous heat resistance tests confirm that our battery cells can endure exposure to flames for an impressive 48 minutes before any risk of explosion, for a visual demonstration, please refer to the video below.

Performance Specifications

Product model	60138
Weight	≤850g
Nominal capacity	24Ah
Nominal voltage	2.3V
Nominal Energy	55.2Wh
Energy Density	65Wh/kg
Resistance	≤0.5mΩ
Charging cut-off voltage	2.7V
Discharging cut-off voltage	1.5V
Standard charging current	1C
Standard discharging current	1C
Max. Constant Charging Current	8C
Max. Constant Discharging Current	8C
Max. Charging Current	20C
Max. Discharging Current	30C
Temperature Range for Storage	Less than one year: -10~25°C; Less than three months: -30~45°C
Transportation Voltage	≥2.3V
Appearance	No crack, scratch, distortion, prominence, leakage, etc.

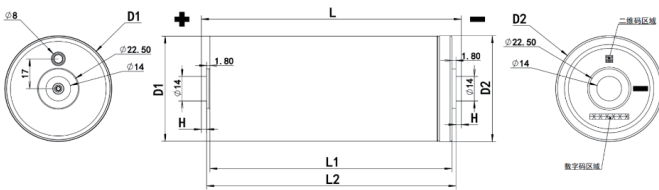
LTO

lithium titanate battery

60138

2.3V 24Ah 55.2Wh

Dimensions



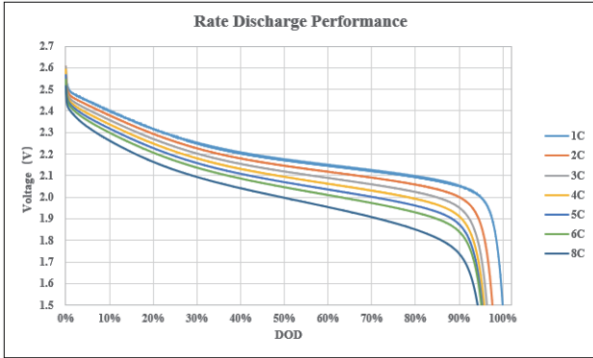
L (±0.5mm)	146.5	Unit: mm
L2 (±0.5mm)	140.5	
L1 (±0.5mm)	136.9	
D1 (±0.2mm)	60.0	
D2 (±0.4mm)	60.4	
H (±0.2mm)	3.0	

Typical Applications

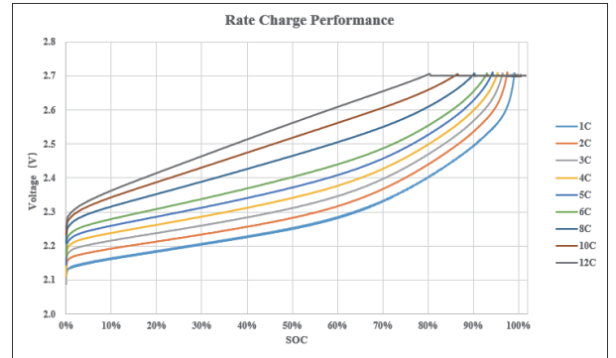
- Transportation
- Grid Frequency Modulation
- Industrial and Commercial Energy Storage
- Home Energy Storage
- Communication Base Station
- Military industry

RoHS **MSDS** **UN38.3**
Material Safety Data Sheet

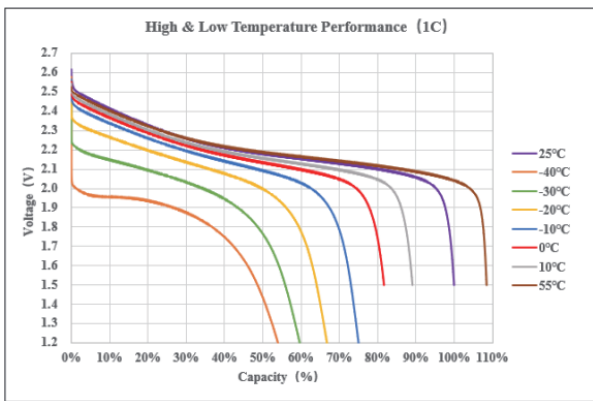
Multiple rate discharge performance (25°C)



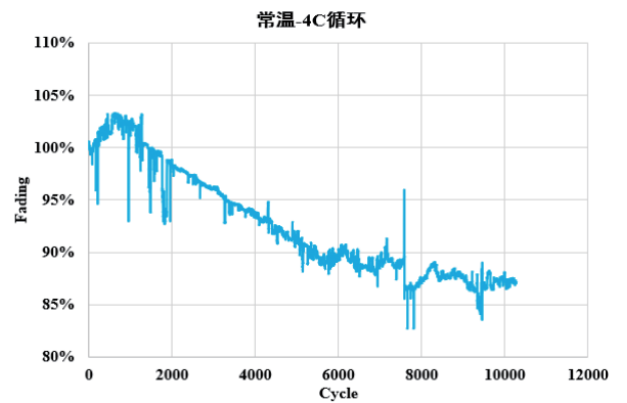
Multiplier Charging Performance



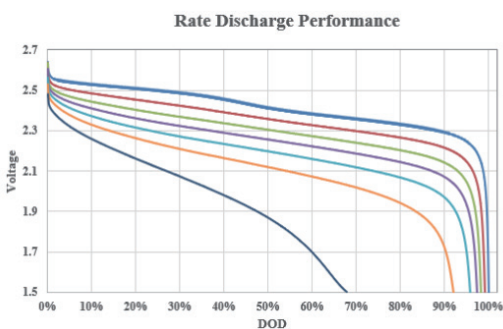
Different Temperature Discharge Performance



4C cycle at room temperature



Multiple rate discharge performance



Multiplier Charging Performance



(Note) All above information shall be changed without prior notice, Starlight reserves the right to explain and update the latest information