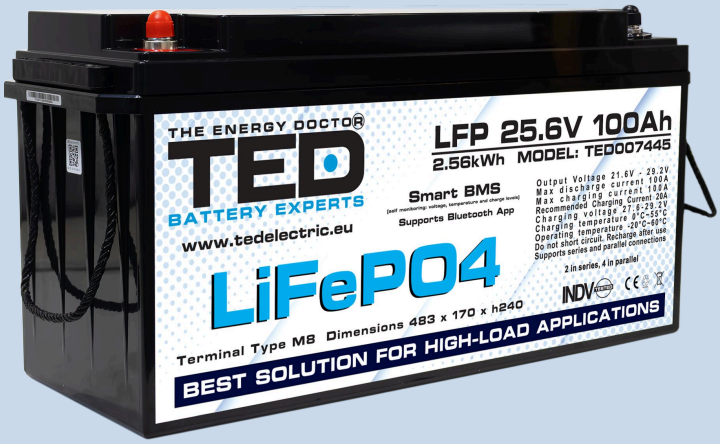
THE ENERGY DOCTOR®
TED
BATTERY EXPERTS

TECHNICAL DATA SHEET

LiFePO4 25.6V 100Ah

A high-performance LiFePO4 battery offering maximum safety, long lifespan, and reliable power delivery. Built with premium-grade cells and optimized energy density, it delivers high efficiency and thermal stability, supported by a smart integrated BMS. Ideal for solar systems and backup power applications, backed by a 3-year warranty.



SPECIFICATIONS

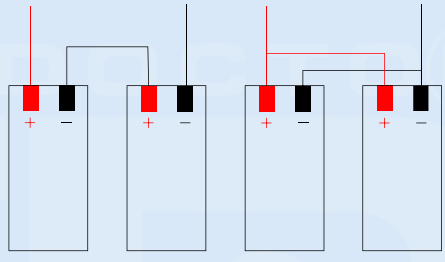
Battery type Chemistry	**LiFePO4**
Nominal Voltage	**25.6V**
Nominal Capacity	**100Ah**
Total Energy	**2560Wh**
Voltage Range	**21.6V-29.2V**
Recommended Charging Voltage	**28.8V**
Max. Charging Voltage	**29.2V**
Recommended Charging Current	**20A**
Max. Charging Current	**100A**
Recommended Discharge Voltage	**22.4V**
Max. Discharging Voltage	**21.6V**
Max. Continuous Discharge Current	**100V**
Peak Discharge Current	**180A/3S**
Discharge Temperature	**-20 ~ 60°C**
Charging Temperature	**0 ~ 55°C**
Storage Temperature	**-20 ~ 45°C**
Terminal Type	**M8**
Case Material	**ABS**
BMS Build-In	**Yes**
Efficiency	**>99%**
Self Discharge per Month	**<3%**
Max. Units in Parallel	**4PCS**
Max. Units in Series	**2PCS**
LCD Screen	**Optional**
Bluetooth (App)	**Yes**

PRODUCT DETAILS

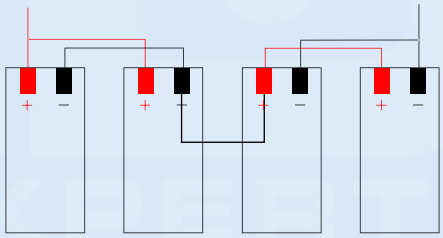
LiFePO4 25.6V 100Ah

Part number: **TED007445**
Length: **483 mm**
Width: **170 mm**
Height: **240 mm**
Weight: **17.5kg**
Life Cycle: **6000 cycles (DoD 80%)**
Design Life: **>12 years**
Certifications: **CE/ROHS/UN38.3**

SYSTEM DESIGN



Series Connection | Parallel Connection



Series and Parallel Connection

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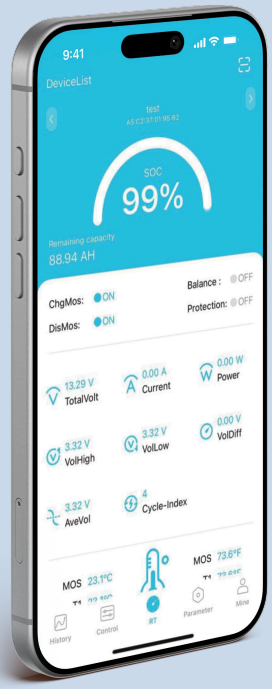
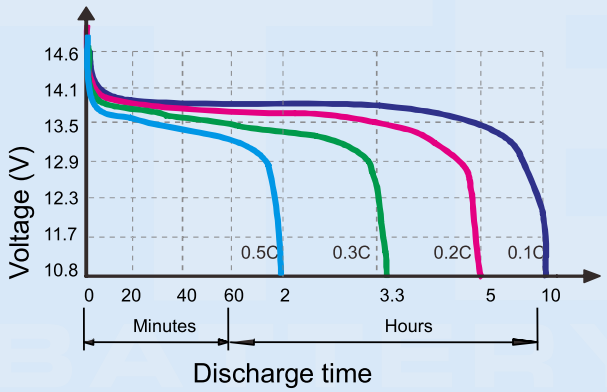
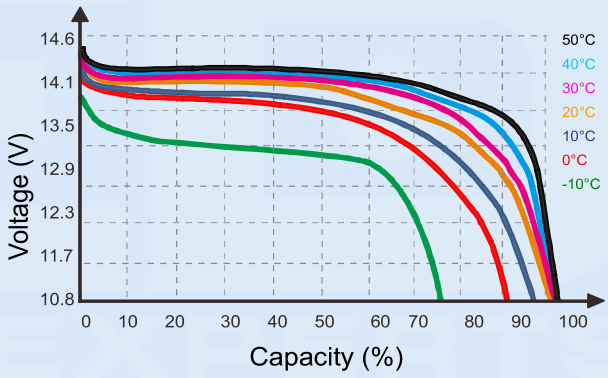


- Up to 10x Longer Cycle Life compared to AGM
- Fast Charging and Safe LiFePO4 Chemistry
- Versatile use across residential, commercial, and industrial markets.
- Ideal for renewable energy storage, EV/traction, material handling, marine/RV, telecom, and UPS applications.

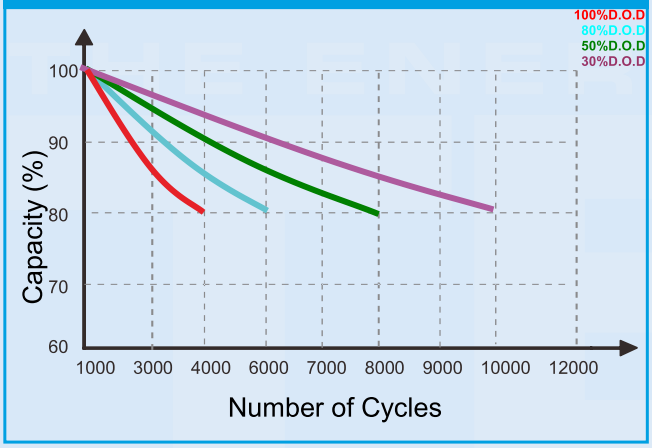
Discharge Characteristics 25°C



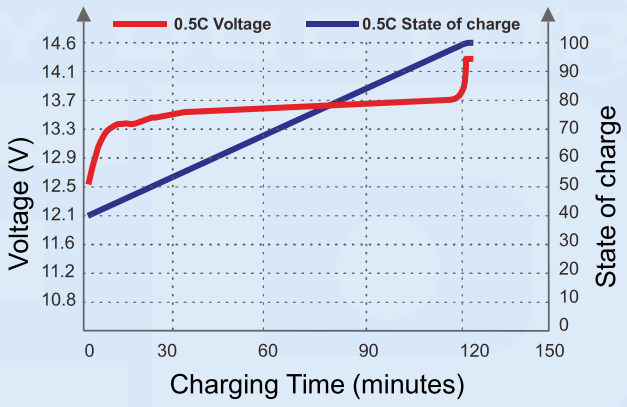
Different temperature discharge curve (0.5C)



Different DOD Discharge life cycle curve 0.2C 25°C



State of charge curve (0.5C, 25°C



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