

TECHNICAL DATA SHEET

LiFePO4 12.8V 300Ah

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	12.8V
Nominal Capacity	300Ah
Total Energy	3840Wh
Voltage Range	10.8V~14.6V
Recommended Charging Voltage	14.4V
Max. Charging Voltage	14.6V
Recommended Charging Current	60A
Max. Charging Current	200A
Recommended Discharge Voltage	11.2V
Max. Discharging Voltage	10.8V
Max. Continuous Discharge Current	200A
Peak Discharge Current	300A/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	4PCS
LCD Screen	Optional
Bluetooth (App)	Yes



PRODUCT DETAILS

LiFePO4 12.8V 300Ah

Part number: **TED007438**

Length: **522 mm**

Width: **240 mm**

Height: **220 mm**

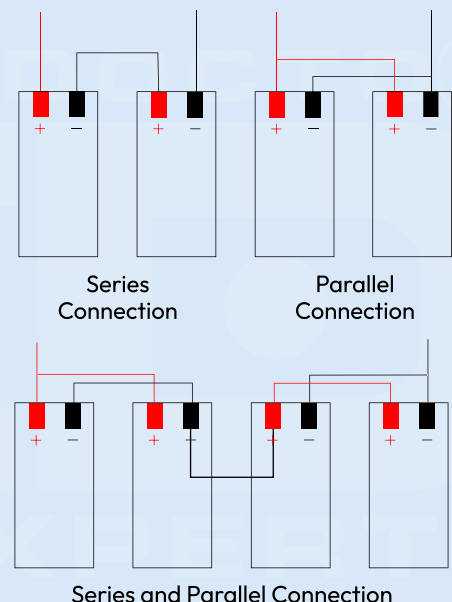
Weight: **26.3kg**

Life Cycle: **6000 cycles (DoD 80%)**

Design Life: **>12 years**

Certifications: **CE/ROHS/UN38.3**

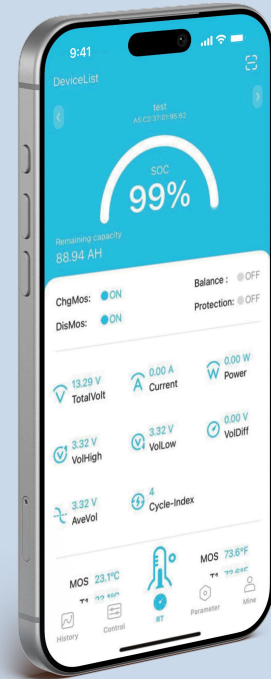
SYSTEM DESIGN



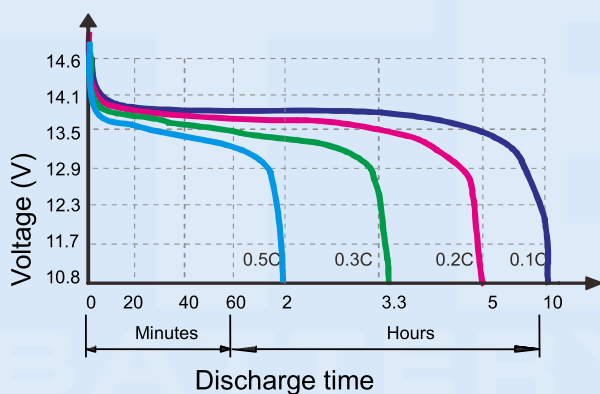
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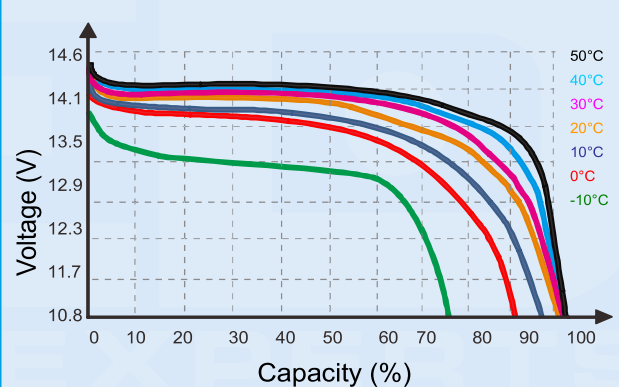
- Up to 10x Longer Cycle Life compared to AGM
- Fast Charging and Safe LiFePO4 Chemistry
- Versatile use across residential, commercial, and industrial markets.
- Ideal for renewable energy storage, EV/traction, material handling, marine/RV, telecom, and UPS applications.



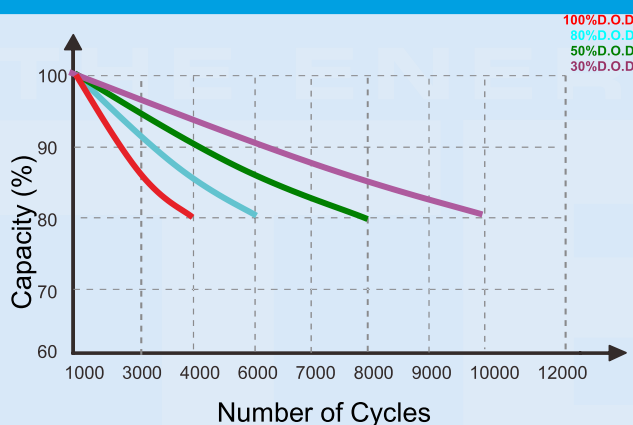
Discharge Characteristics 25°C



Different temperature discharge curve (0.5C)



Different DOD Discharge life cycle curve 0.2C 25°C



State of charge curve (0.5C, 25°C)

