

TECHNICAL DATA SHEET

LFP 51.2V 100Ah - 5.12KW

TED Electric LFP Lithium Series batteries deliver powerful performance, long service life, and dependable energy reliability. Built with advanced high-power cell technology, they are ideal for demanding residential, commercial, and industrial solar and energy storage applications. Integrated thermal monitoring enhances safety, backed by a 5-year warranty.



SPECIFICATIONS

Battery Type Chemistry	LiFePO4
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Energy Density	5120Wh
Voltage Range	43.2V-58.4V
Recommended Charging Voltage	57.6V
Max. Charging Voltage	58.4V
Recommended Charging Current	20A
Max. Continuous Current	100A
Recommended Discharge Voltage	44.8V
Max. Discharging Voltage	43.2V
Max. Continuous Discharge Current	100A
Peak Discharge Current	150A
Heating Function	Optional
Discharge Temperature	-20 ~ 60°C
Charging Temperature	0 to 55°C
Storage Temperature	-20 to 45°C
Terminal Type	Plug-in
Case Material	SPCC
BMS Build-In	Yes
Efficiency	>98%
Self Discharge per Month	<3%
LCD Screen	Included
Terminal Torque	8.5NM
Max. Units in Series	Not Allowed

PRODUCT DETAILS

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Part number: **TED007452**

Length: **625 mm**

Width: **420 mm**

Depth: **154 mm**

Weight: **47kg**

Max. Units in Parallel: **16PCS**

Mounting: **Indoor Wall Mounted**

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

Design Life: **>12 years**

Bluetooth Wifi (App): **Included**

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

BMS PARAMETERS

Primary Charging Protection	CT: 105A	DT: 20s
Second Charging Protection	CT: 110A	DT: 2~3s
Primary Discharging Protection	CT: 110A	DT: 10s
Second Discharging Protection	CT: 150A	DT: 100ms
Over Charge Voltage Protection	VLT: 59.2V	DT: 1~2s
Over Discharge Voltage Protection	VLT: 43.2V	DT: 1~2s
Temperature Protection	Temperature ≥ 95 Recover ≤ 85	°C °C
Communication Port	Major RS485, optional for CAN	Dry port, customized acceptable

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Connect to PACEEX BMS Application:



Download on the
App Store
Requires Bluetooth 4.0
Needs iOS 10.0+



GET IT ON
Google Play
Requires Bluetooth 4.0
Needs Android 5.0+

- High performance with strong, consistent power output.
- Fast Charging and Safe LiFePO4 Chemistry with included heat sensor protection.
- High-power cell technology for higher loads and peak demands.
- Versatile for residential, commercial, and industrial applications.

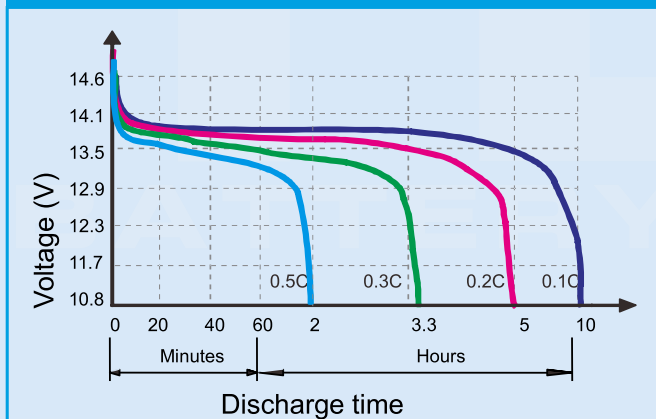
Genuinely
Compatible with
and others:



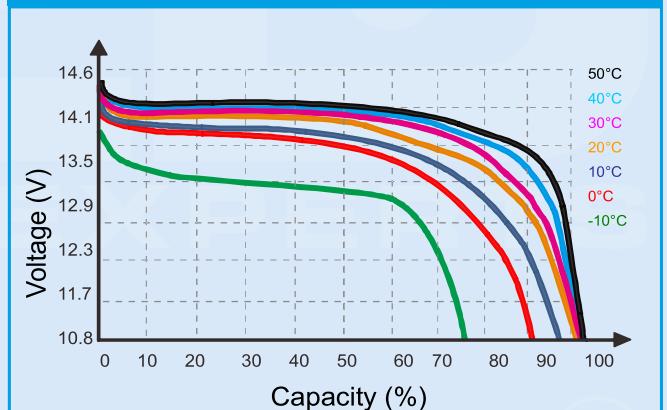
Constant Power and Current Discharge Data (Watts and Amperes @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (44.8V)	5120W/ 100A	2560W/ 50A	1706.7W/ 33.3A	1280W/ 25A	1024W/ 20A	512W/ 10A	256W/ 5A

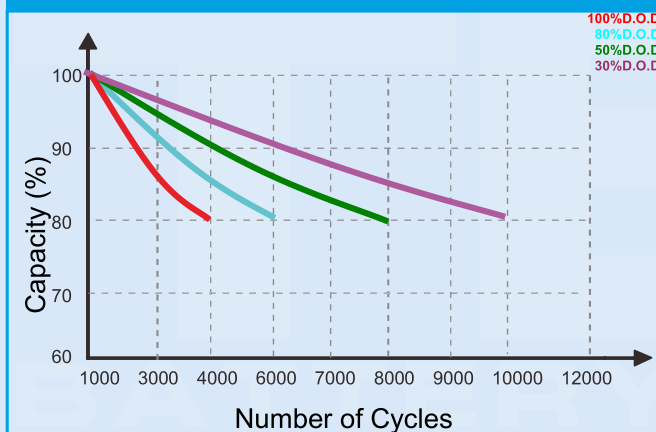
Discharge Characteristics 25°C



Different temperature discharge curve (0.5C)



Different DOD Discharge life cycle curve 0.2C 25°C



State of charge curve (0.5C, 25°C)

