

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

### PRODUCT DETAILS

#### LFP 51.2V 100Ah - 5.12KW

Part number: **TED007452**

Length: **625 mm**

Width: **420 mm**

Height: **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

## LFP 51.2V 100Ah - 5.12KW

Connect to PACEEX BMS Application:



- 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.

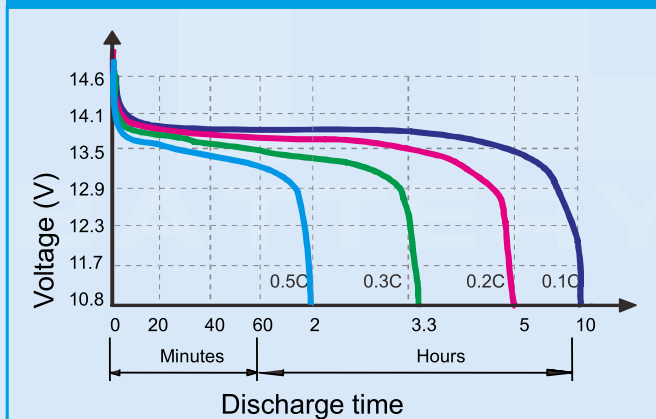
Genuinely  
Compatible with  
and others:



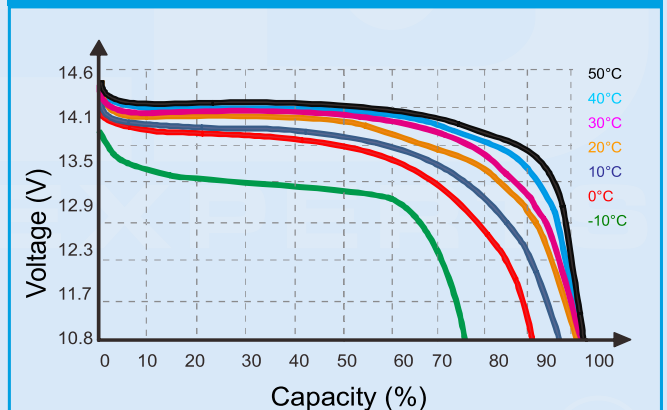
### Constant Power and Current Discharge Data (Watts and Amperes @ 25°C)

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

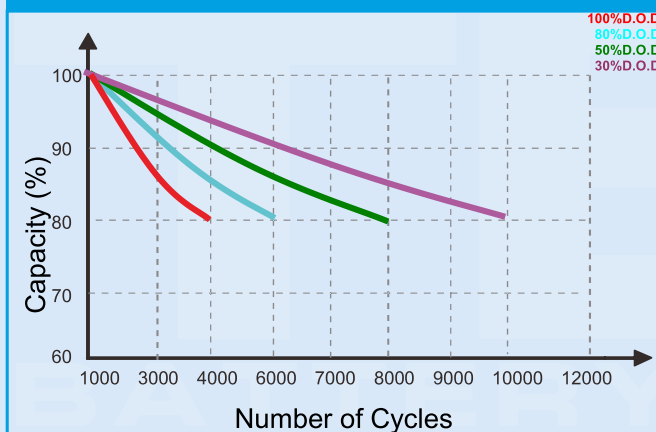
### Discharge Characteristics 25°C



### Different temperature discharge curve (0.5C)



### Different DOD Discharge life cycle curve 0.2C 25°C



### State of charge curve (0.5C, 25°C)

