

TN Power (LiFePO4) Data Sheet

TN-LFP12.8V100Ah Models

GENERAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100Ah@0.2C
Energy 1075.2Wh	1280Wh
Internal Resistance	45≤mΩ
Cycle Life	>2000 Cycles @ 0.2C Charging/Discharging at 100%DOD, Until 70% Capacity.
Self Discharge ≤3.5% per month at 25°C	≤3.5% per month at 25°C

STANDARD DISCHARGING

Discharging Current	20A
Max Continuous Current	100A
Max Pulse Current	200A (<3S°C)
Discharging Cut-off Voltage	10.0V

STRUCTURE

Cell & Format	IFR32700 N60, 4S17P
Casing	ABS
Dimension(L*W*H*TH)	328*172*215*220mm
Weight	13.1Kg
Terminal	M8

STANDARD CHARGING

Charging Voltage	14.6±0.2V
Charging Mode (CC/CV)	At 0°C~45°C temperature, charged to 14.6V at a constant current of 0.2C5A, and then, charged continuously with constant voltage of 14.6V until the current is no more than 0.02C5A.
Charging Current	20A
Max Charging Current	50A

ELECTRICAL CHARACTERISTICS

Charge Temperature	0°C to 45°C (32°F to 113°F) @60±25% Relative Humidity
Discharge Temperature	-20°C to 60°C (-4°F to 140°F) @60±25% Relative Humidity
Storage Temperature	0°C to 45°C (32°F to 113°F) @60±25% Relative Humidity
Water Dust Resistance	IP55



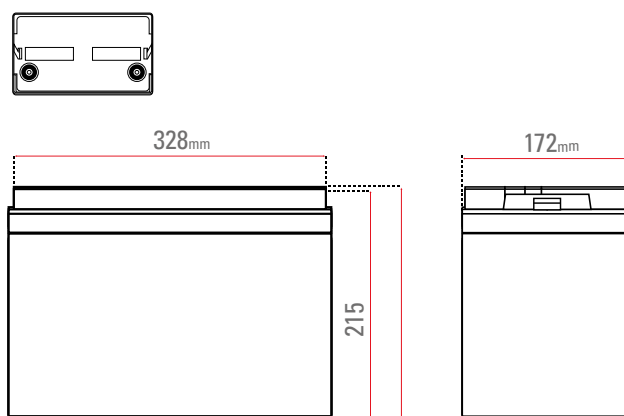
FEATURES

- Using the technology of lithium iron phosphate cell, superior safety
- Thousands of cycles, 100% DOD, under normal conditions
- Built-in automatic protection for over-charge, discharge and temperature
- Maintenance Free
- Internal cell balancing
- About 40% ~50% of the weight of a comparable lead acid battery.
- Can be charged using most standard lead-acid charges (set)
- Wider temperature range: -20°C ~60°C
- Support for Series application expansion (up to 51.2V) and two in parallel

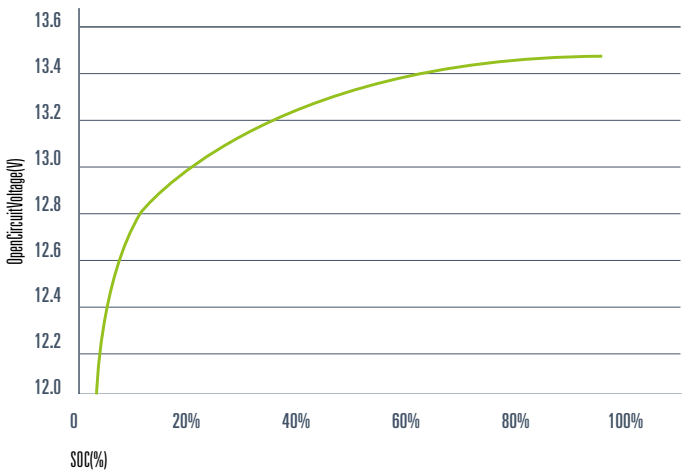
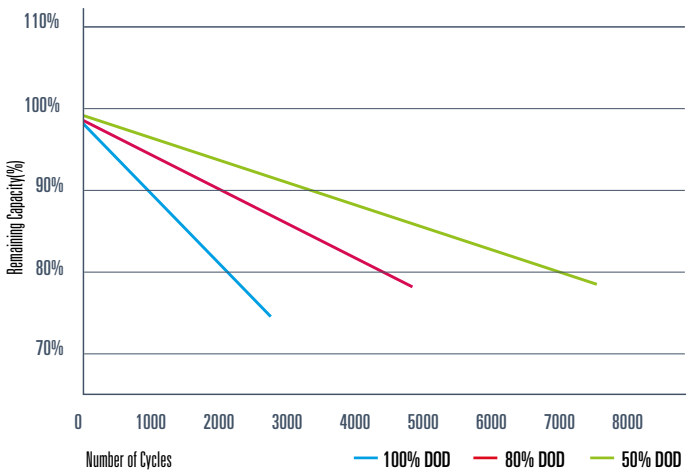
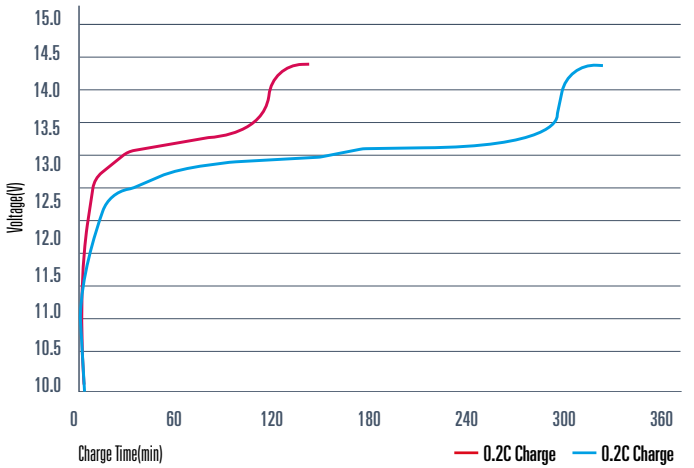
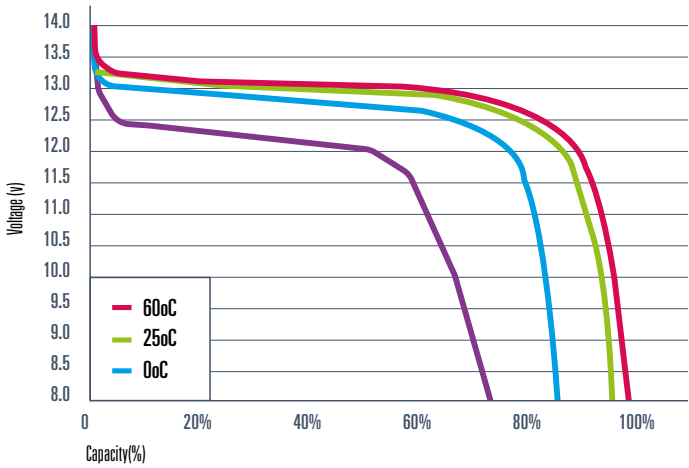
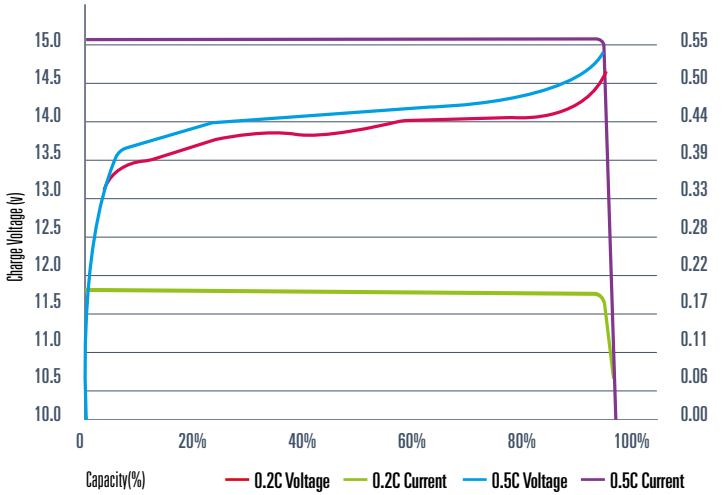
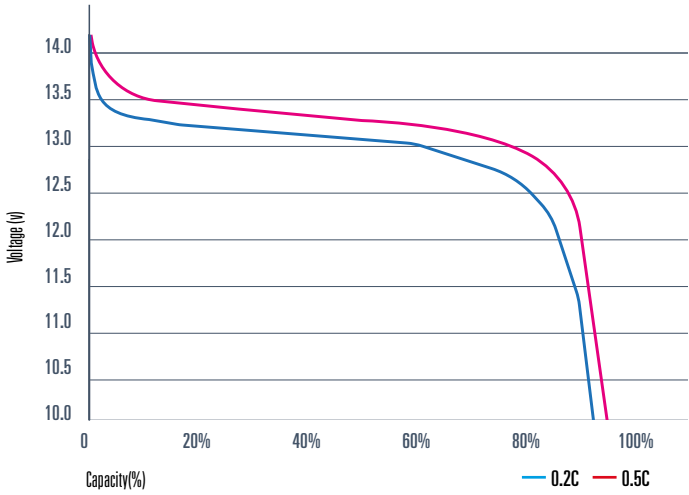
APPLICATION

- Recreational Vehicles
- Marine
- Renewable Energy
- Medical / Mobility
- Electric Vehicles
- Golf Cart

DIMENSIONAL SPECIFICATIONS



Lithium Iron Phosphate (LiFePO4) Battery | MODEL: TN-LFP12.8V100Ah



TN POWER Lithium is UN38.3 certified

