

# TN POWER (LiFePO4) Data Sheet

## TN-LFP12.8V84Ah Models



### FEATURES

- + Using the technology of lithium iron phosphate cell, it offers superior safety, and the most stable components
- + 2000 lifecycles @ 100%DOD, under normal conditions
- + Built-in automatic protection for over-charge, over discharge, over current and over temperature
- + Maintenance Free
- + Internal cell balancing
- + About 40% ~50% of the weight of a comparable lead acid battery.
- + Wider temperature range: -20°C ~60°C
- + Support for Series application expansion (up to 51.2V) and two in parallel
- + Lower overall total cost of ownership

### APPLICATION

Marine (Cyclic)

Mobility

Automotive (Cyclic)

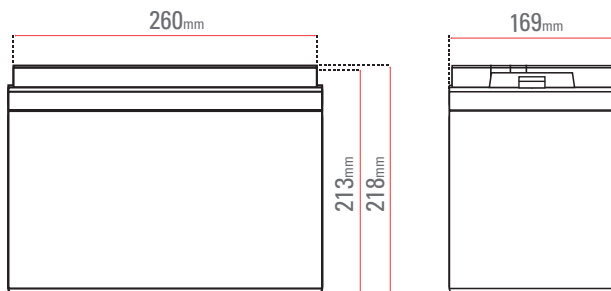
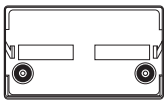
Leisure

UPS

Renewable

Golf Cart

### DIMENSIONAL SPECIFICATIONS



### GENERAL SPECIFICATIONS

#### ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	84Ah@0.2C
Energy	1075.2Wh
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

#### DISCHARGE SPECIFICATIONS

Discharging Current	16.8A
Max. Continuous Current	60A
Max Pulse Current	120A (<3S)
Discharging Cut-off Voltage	10.0V

#### MECHANICAL SPECIFICATIONS

Cell & Format	IFR32700 N60, 4S14P
Casing	ABS
Dimension(L*W*H*TH)	260*169*213*218mm
Weight	10.2Kg (Approx)
Terminal	M8
Group Size	24

#### CHARGE SPECIFICATIONS

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	16.8A
Max Charging Current	42A

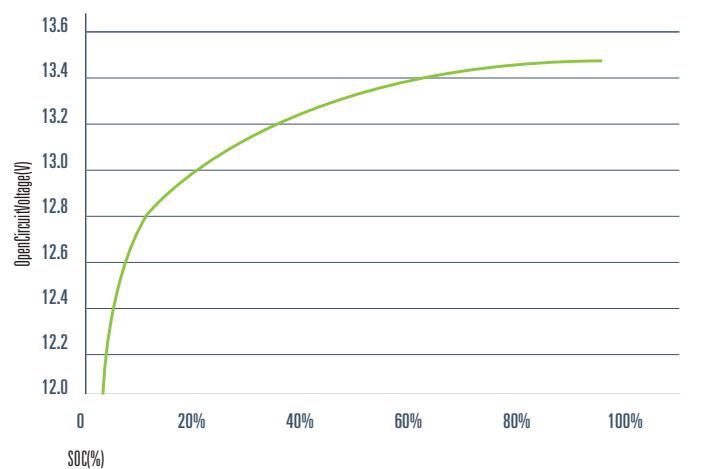
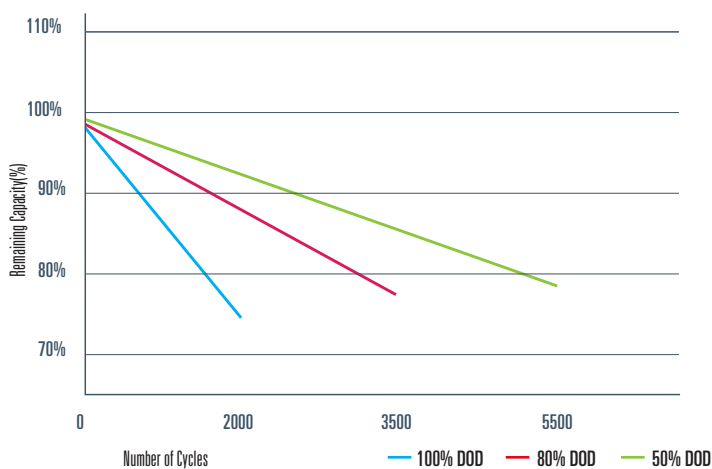
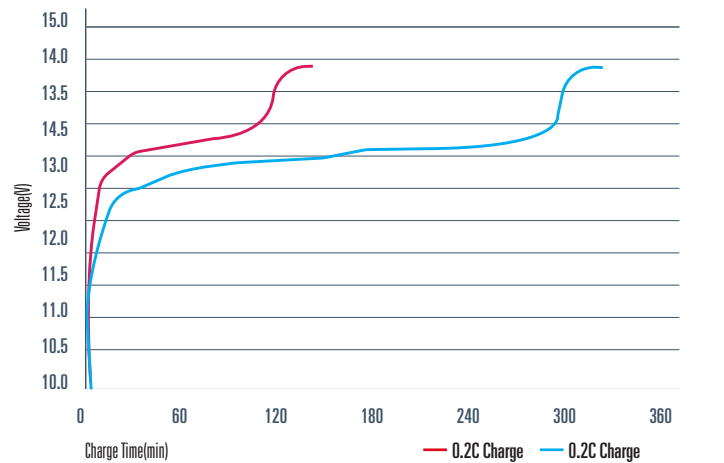
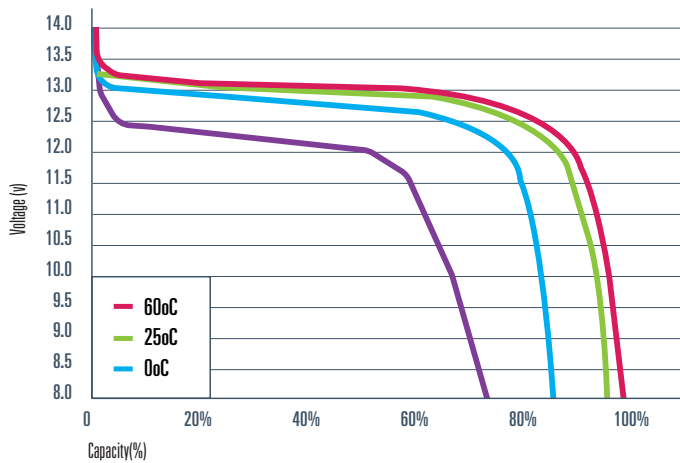
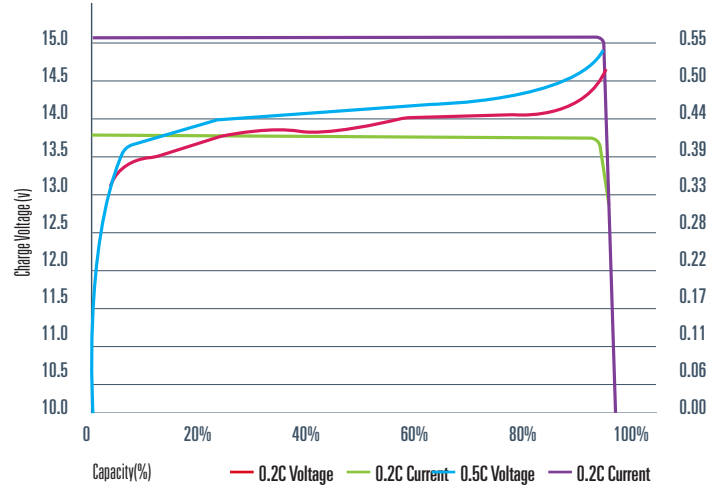
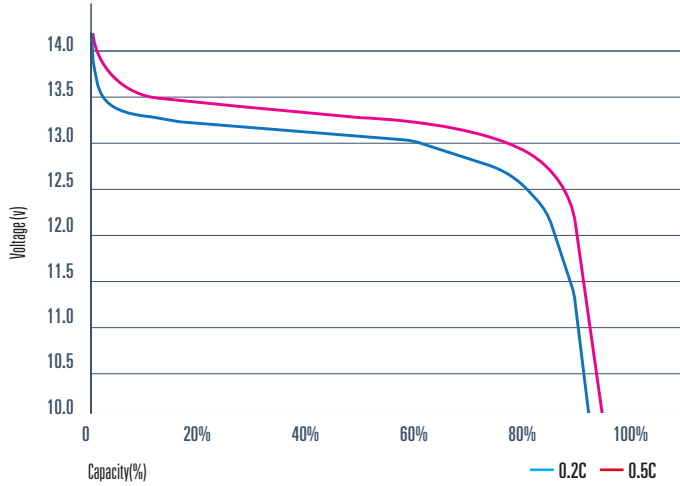
#### TEMPERATURE SPECIFICATIONS

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



# LITHIUM IRON PHOSPHATE (LiFePO<sub>4</sub>) BATTERY

## TN-LFP12.8V84AH MODELS PERFORMANCE SPECIFICATIONS



TN POWER Lithium is UN38.3 certified



Distributor: