



TN POWER (LiFePO4) Data Sheet

TN-LFP12.8V100Ah Models



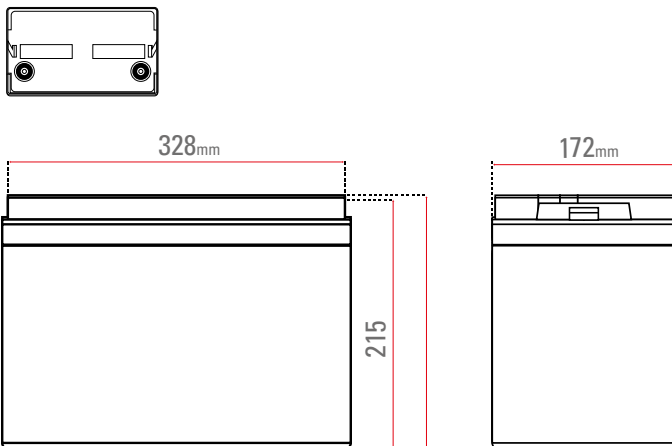
FEATURES

- + 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
- + Lighter weight: About 40% ~50% of the weight of lead acid battery
- + Can be charged using most standard lead-acid charges (set)
- + Wider temperature range: -20 - 60°C
- + Support for Series application expansion (up to 51.2V) and two in parallel

APPLICATION

- UPS
- Solar & Wind Power System
- Golf Cart
- Electric Vehicle , E-bike, E-rickshaw etc.
- Lighting

DIMENSIONAL SPECIFICATIONS



GENERAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

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

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 Approx.	13.1Kg
Terminal	M8

STANDARD CHARGING

Charging Voltage 14.6±0.2V	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, changed continuously with constant voltage of 14.6V until the current was not more than 0.02C5A.
Charging Current	20A
Max Charging current	50A

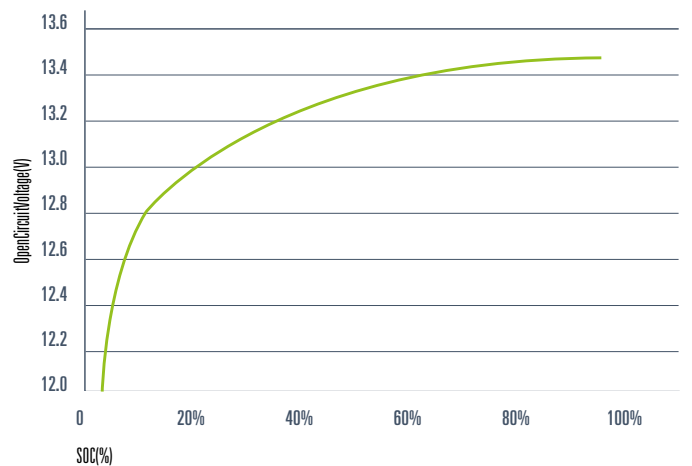
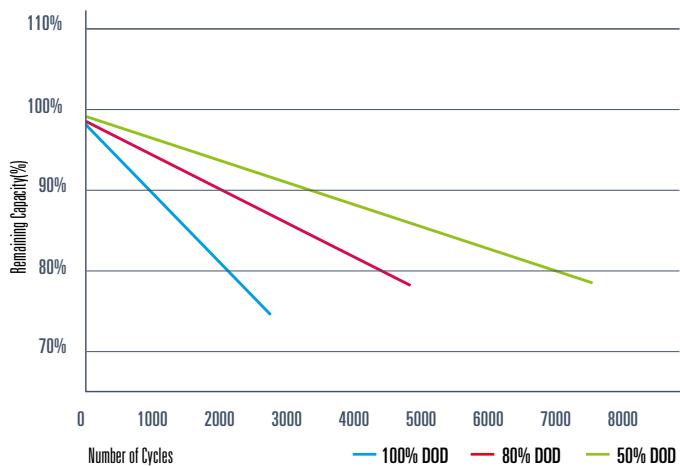
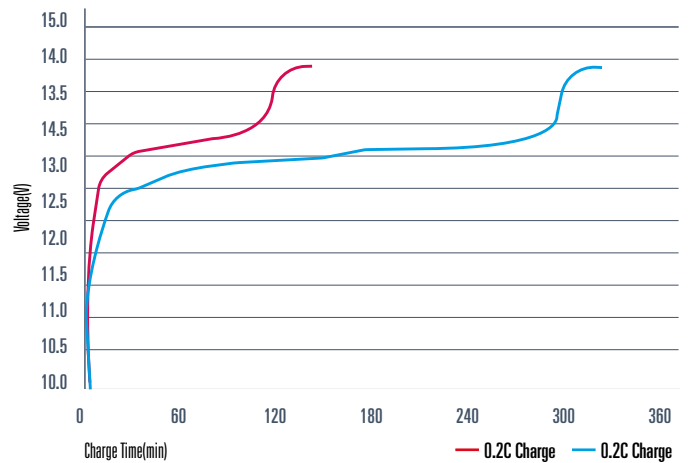
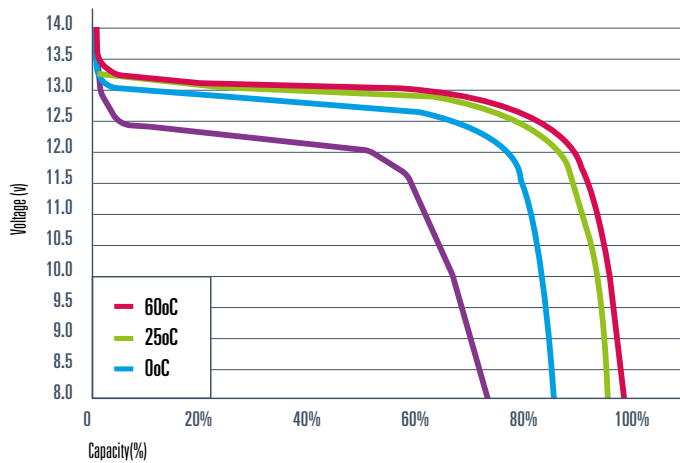
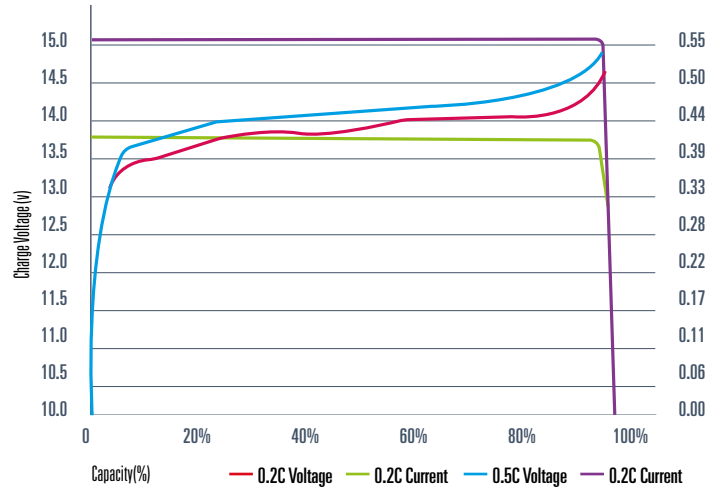
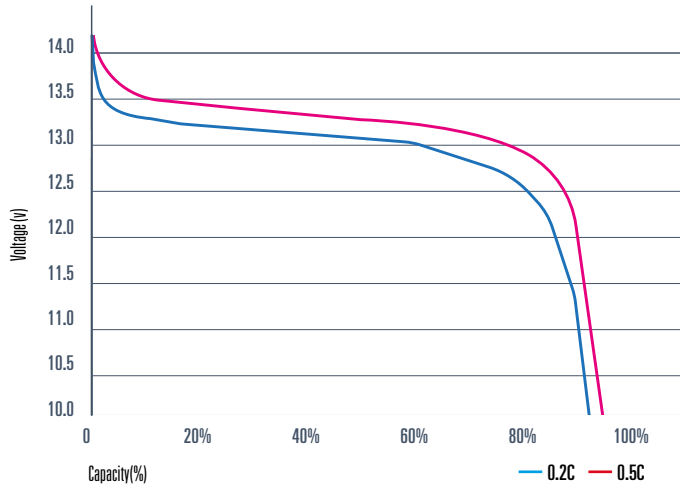
ELECTRICAL CHARACTERISTICS

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



LITHIUM IRON PHOSPHATE (LiFePO4) BATTERY

MODEL: TN-LFP12.8V100AH



TN POWER Lithium is UN38.3 certified

