

TN Power (LiFePO4) Data Sheet

TN12.8-100 (LT)

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 |



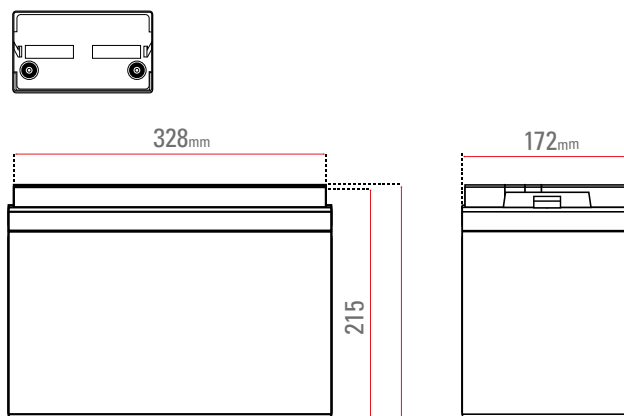
FEATURES

- 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
- Built in heater maintaining battery at over 5 °C when charging
- 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

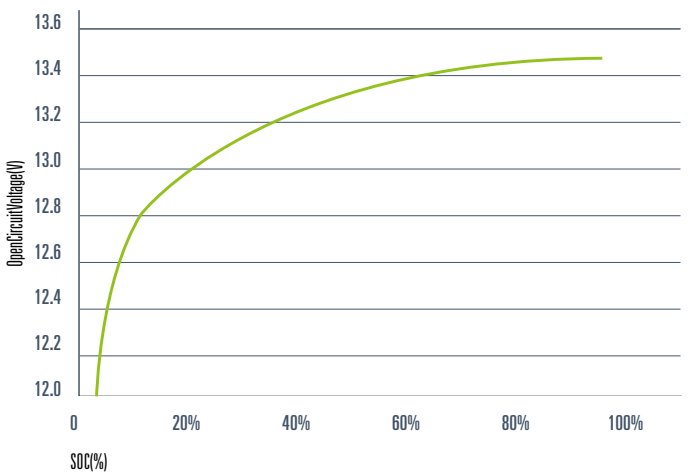
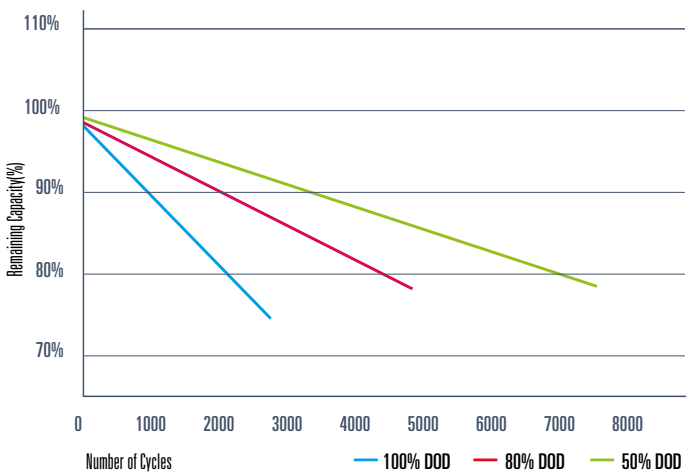
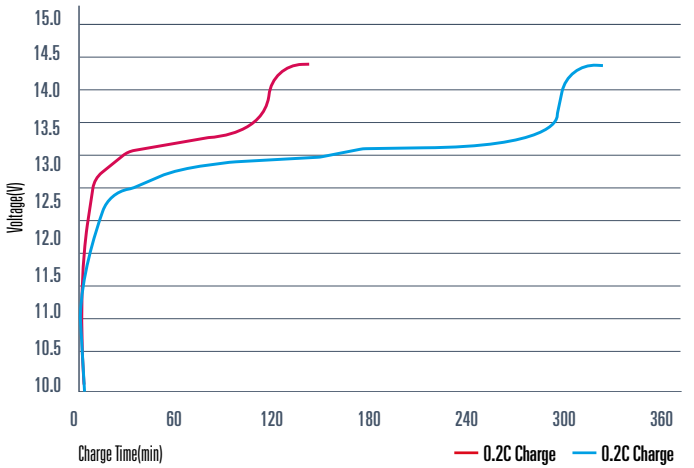
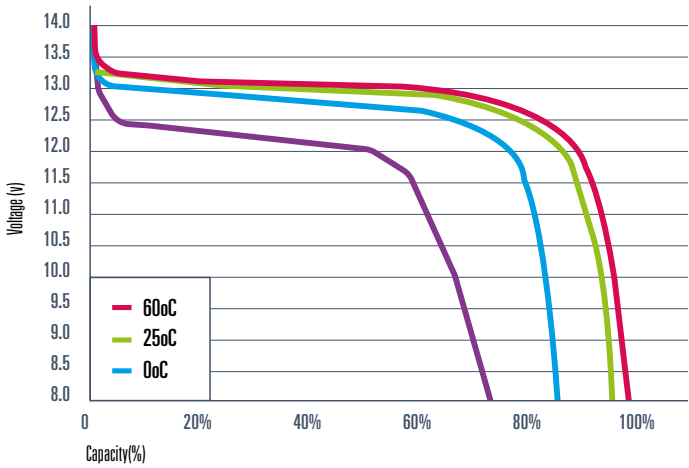
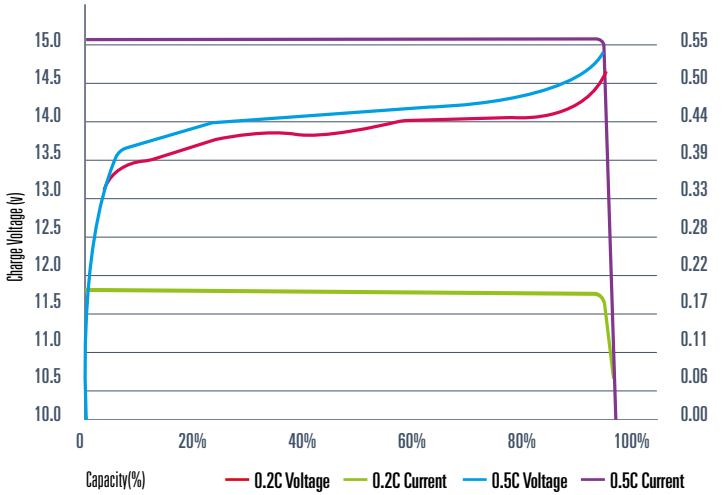
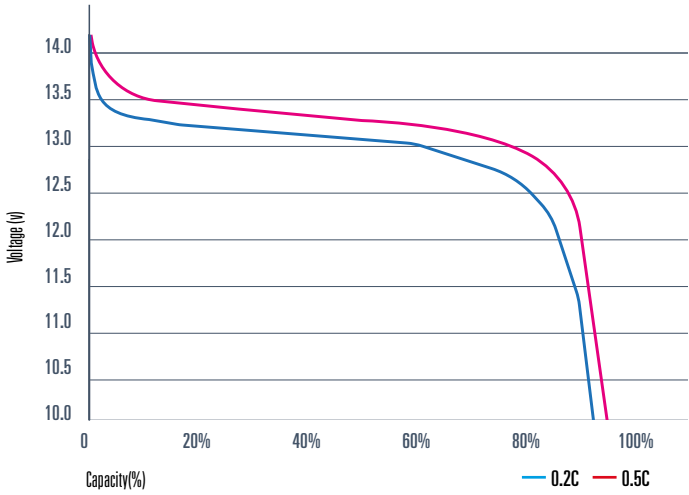
APPLICATION

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

DIMENSIONAL SPECIFICATIONS



Lithium Iron Phosphate (LiFePO4) Battery | MODEL: TN12.8-100 (LT)



TN POWER Lithium is UN38.3 certified

