



# LFP12-100BT (12.8V 100Ah)

## Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Nominal Voltage                 | 12.8V                    |
| Rated Capacity (10HR)           | 100Ah                    |
| Weight                          | 13.6kg (29.92lbs)        |
| Energy                          | 1280Wh                   |
| Resistance                      | ≤30mΩ                    |
| Efficiency                      | 99%                      |
| Cycle Life                      | 2000cycles @1C,100% DOD  |
| Self Discharge                  | 2% per Month             |
| Max. Modules in Series/Parallel | 4S/20P                   |
| Dimensions                      | Length 330 mm            |
|                                 | Width 173 mm             |
|                                 | Container Height 212 mm  |
|                                 | Total Height 212 mm      |
| Terminal Type                   | T11                      |
| Battery Housing                 | ABS, UL-94 V-0           |
| Housing Protection              | IP56                     |
| Cell Type-Chemistry             | LiFePO4 Cylindrical Cell |
| SOC Display(Optional)           | LED/LCD Indicator        |

## Performance

- Long Cycle Life>2000cycles @80% DOD.
- High Density, High Discharge Current, High Temperature Range.
- Low Weight, Free Maintenance.
- Fast Charging.
- Environment Friendly.



## Description and Features

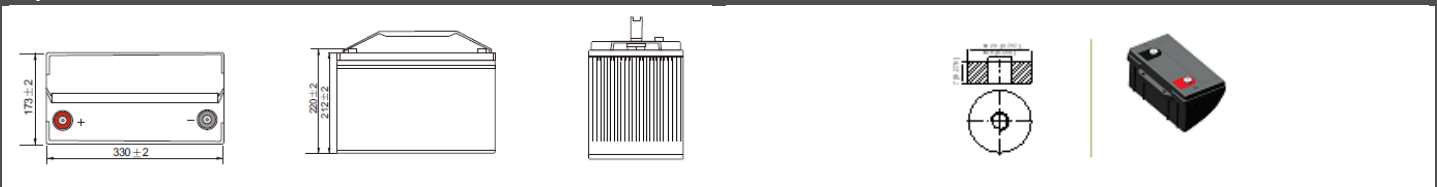
The LFP series is full-fledged lead acid battery replacement with all the advantages of LiFePO4 technology. This lithium battery ensures maximum safety and long service life even with regular deep discharge. Available in a range of 12.8V batteries from 7.5Ah to 100Ah.

### Features

- Excellent performance
- Long cycle life
- Safest lithium technology (LiFePO4)
- Integrated BMS
- Integrated bluetooth monitoring (LFP12-100BT only)
- One-to-one replacement for cyclic lead acid batteries

## Layout

## Terminal



## Discharge Parameters

|                               |                  |
|-------------------------------|------------------|
| Continuous Discharge Current  | 100A             |
| Pulse Discharge Current       | 300A(>3 seconds) |
| Recommended Volt. Disconnect  | 10V              |
| BMS Discharge Cut-off Voltage | 8V               |
| Reconnect Voltage             | 9.2V             |
| Short Circuit Protection      | 200~600 us       |

## Charge Parameters

|                            |            |
|----------------------------|------------|
| Charge Method              | CC-CV      |
| Charge Voltage             | 14.4~14.8V |
| Recommended Float Voltage  | 13.8V      |
| Recommended Charge Current | 50A        |
| Maximum Charge Current     | 100A       |
| BMS Charge Cut-off Voltage | 15.6V      |

## Compliance Certificate

|                         |                        |
|-------------------------|------------------------|
| Certifications          | UL2054 (MH63377)       |
|                         | CE                     |
|                         | IEC62133 & CB          |
|                         | KC                     |
| Shipping Classification | BIS                    |
|                         | UN3480, Class 9,UN38.3 |

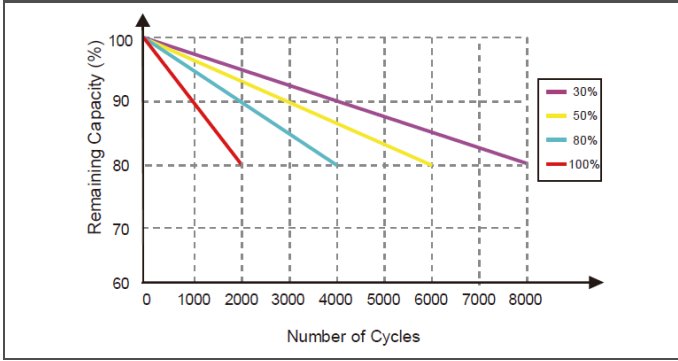
## Temperature Parameters

|                              |                              |
|------------------------------|------------------------------|
| Discharge Temperature        | -30 to 60 °C (-22 to 140 °F) |
| Charge Temperature           | 0 to 45 °C (32 to 113 °F)    |
| Storage Temperature          | -40 to 60 °C(-40 to 140 °F)  |
| BMS High Temperature Cut-off | 80 °C(176 °F)                |

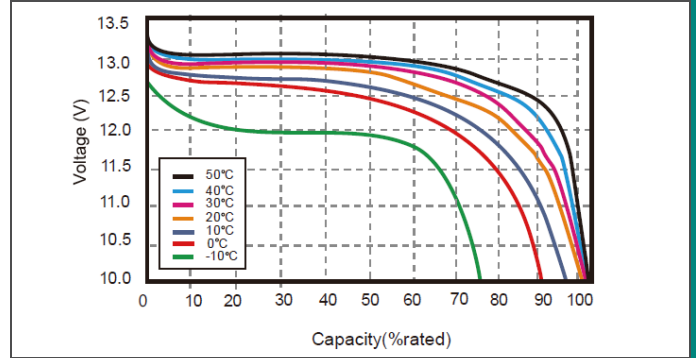


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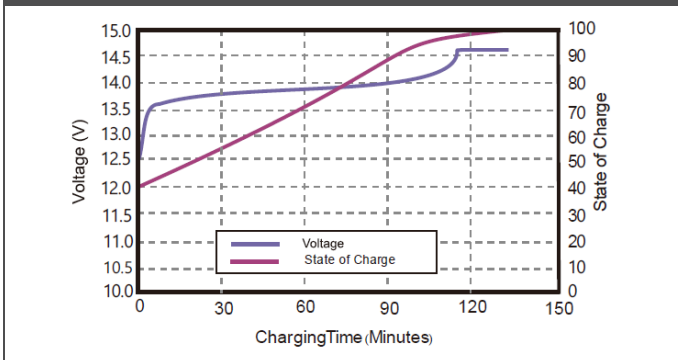
Cycle Life Vs. Depth Of Discharge (DOD) Discharge @ 0.1C, 25°C



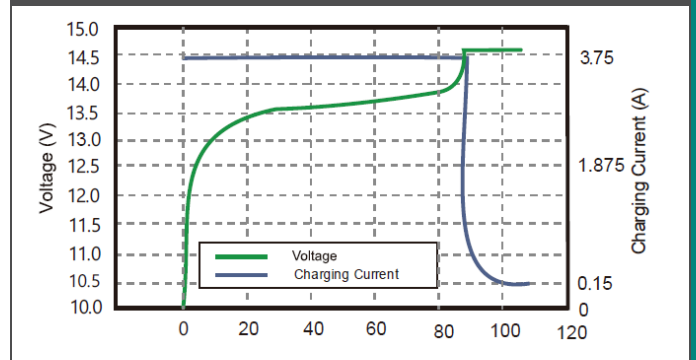
Discharge Capacity At Various Temperatures Discharge @ 1C



State Of Charge Curve @ 0.5C, 25°C



Charging Characteristics @ 0.5C, 25°C



### Battery Applications

- Data Center UPS
- Telecom Backup Power
- Military Power Supply
- Solar Energy Storage System
- Solar Street LED Lightings
- Autonomously Guided Vehicles (AGVs)
- Industrial Robotics & Handling Equipment
- Aerial Work Platform
- Floor Cleaning Machines
- Power Tools, Lawn Mower
- Electric Bike & Motorcycles
- Electric Mobilities( E-scooters, Wheelchair)
- Golf Trolley & Golf Carts
- Medical Devices
- Electric Ships
- Passenger Vehicles

(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.