



LFP12-100BT (12.8V 100Ah)

Specifications

Nominal Voltage	12.8V
Rated Capacity (10HR)	100Ah
Weight	11.2kg (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

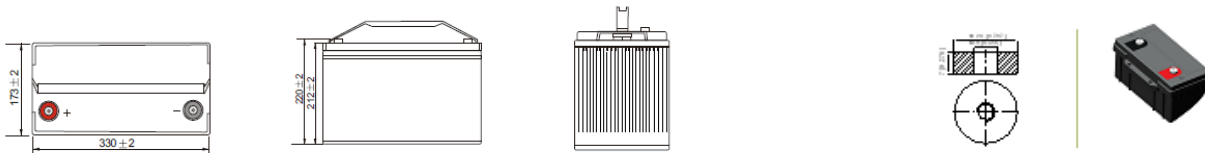
The LFP series is full-fledged lead acid battery replacement with all the advantages of LiFePO4 technology. This lithium battery ensures maximum safety and long service life even with regular deep discharge. Available in a range of 12.8V batteries from 7.5Ah to 100Ah.

Features

- Excellent performance
- Long cycle life
- Safest lithium technology (LiFePO4)
- Integrated BMS

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
	BIS
Shipping Classification	UKCA (for UK)
	UN3480, Class 9,UN38.3

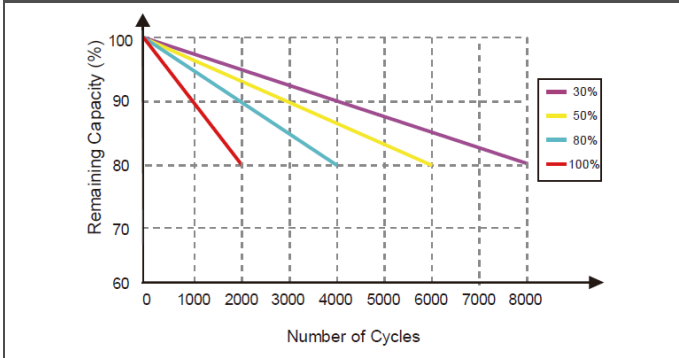
Temperature Parameters

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)

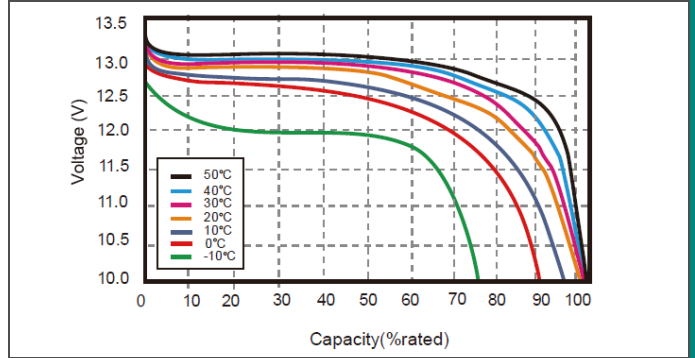


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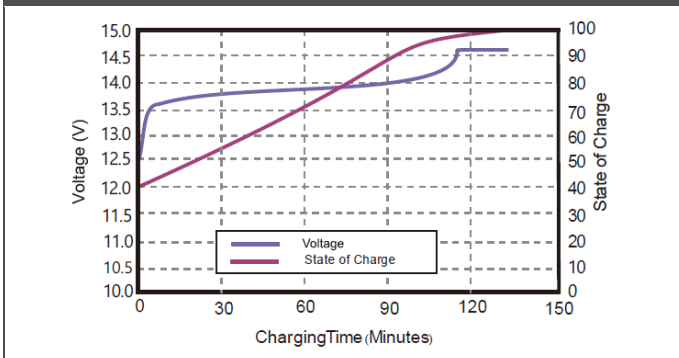
Cycle Life Vs. Depth Of Discharge (DOD) Discharge @ 0.1C, 25°C



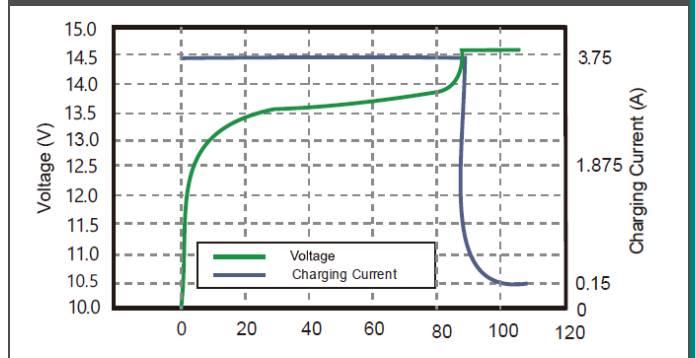
Discharge Capacity At Various Temperatures Discharge @ 1C



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.