



Lithium LiFePO₄ Battery

LFP12.8-100 12.8V 100Ah

LiFePO₄ Lithium Battery

Longer Cycle Life: 5 times longer cycle life than VRLA battery.

Light Weight: About 40% weight of VRLA battery

Quick Charge: Short charge time compared with VRLA battery.

Low Self-Discharge: Lower self-discharge compared with VRLA battery,

Superior Safety: Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation.

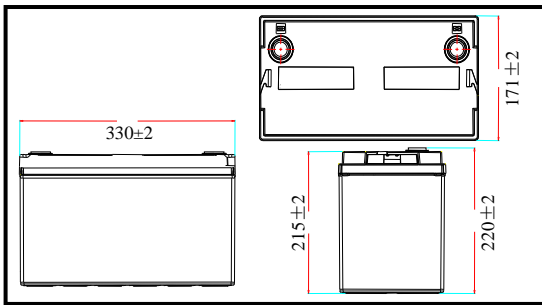
High Efficiency: Higher energy efficiency at 92% compared to VRLA battery at 80%.



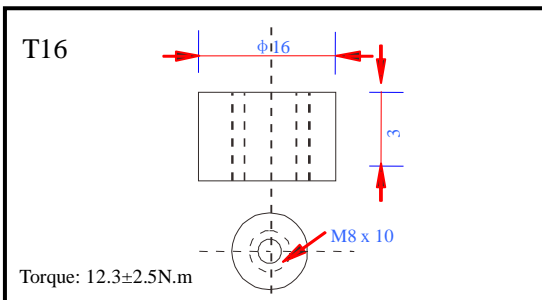
● Specification

Nominal voltage		12.8V
Nominal capacity		100Ah
Dimension	Length	330mm
	Width	172mm
	Height	215mm
	Total height	220mm
Approx. weight		12.5kg

● Outer dimension (mm)



● Terminal Type (mm)

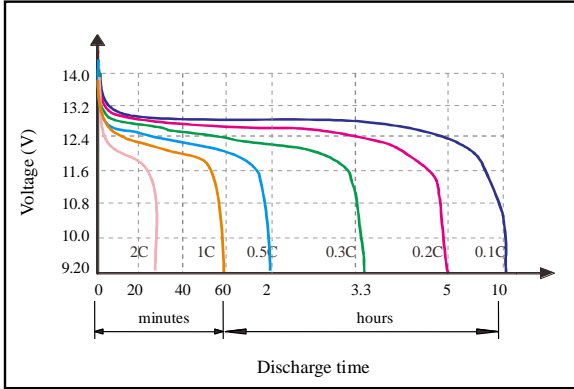


● Characteristic

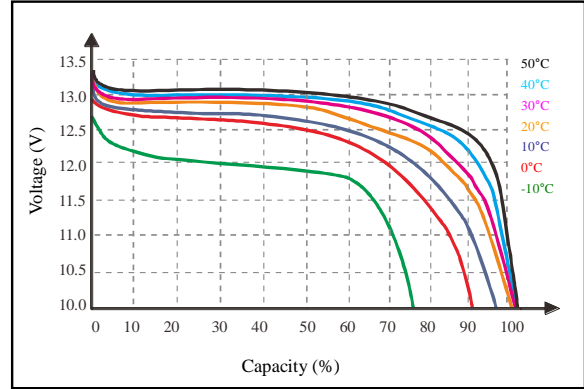
Electrical Parameters (25°C)	Rated Voltage	12.8V
	Rated Capacity (C ₅)	100Ah@ 25°C
	Energy	1280Wh
	1 Month Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Terminal type		T16
Internal resistance (Fully charged, 25°C)		≤12mΩ
Cycle life		>2000 cycles @ 0.2C 100% DOD
Capacity affected by temperature	40°C	101%
	25°C	100%
	0°C	90%
	-10°C	75%
Nominal operating temperature		25°C± 3°C
Operating temperature range	Discharge	- 20°C~ 60°C
	Charge	0°C~ 45°C
	Storage	0°C~ 40°C
Water Dust Resistance		IP65
Charge Voltage		14.6V
Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 14.6V, then Constant Voltage 14.6V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		20A
Maximum Charge Current		50A
Charge Cut off Voltage		14.6V
Continuous Discharge Current		100A
Maximum Pulse Current		300A (<100ms)
Discharge Cut Off Voltage		11.2V
Communicate Protocol (optional)		SMBus/RS485/RS232
SOC (optional)		LED/Bluetooth
Application connection		1 string 1 parallel
Mechanical	Cells	4 Strings
	Container	ABS

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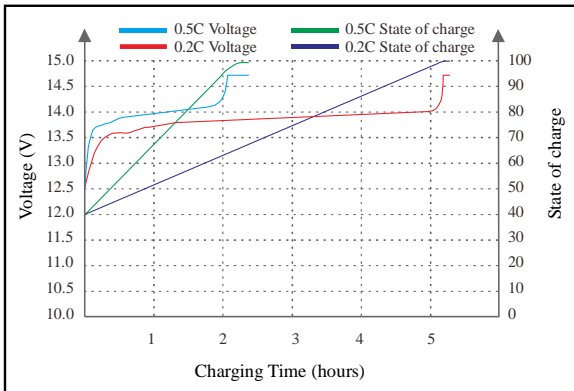
Discharge characteristics(25°C)



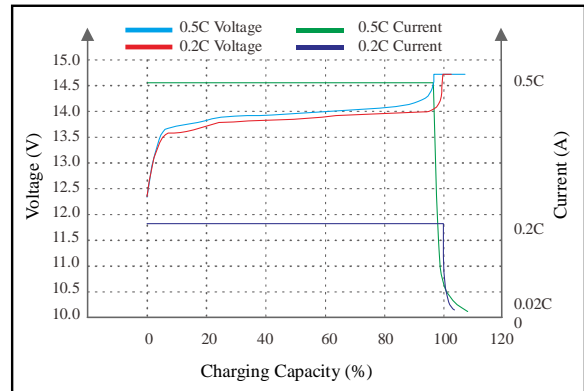
Temperature effects on discharge characteristics (0.5C)



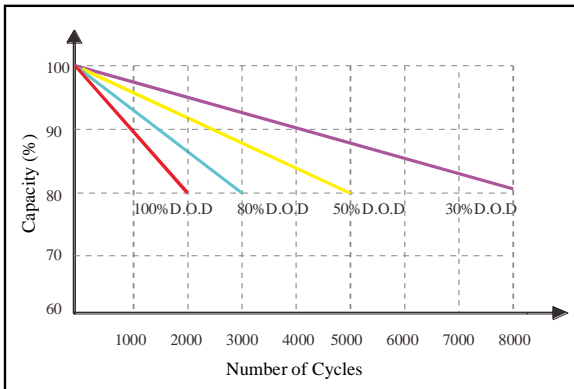
State of Charge Curve (25°C)



Charging characteristics



Cycle Life on DOD (25°C)



Self Discharge Characteristics Curve

