

## LFP25.6-100 25.6V 100Ah

### LiFePO<sub>4</sub> 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.

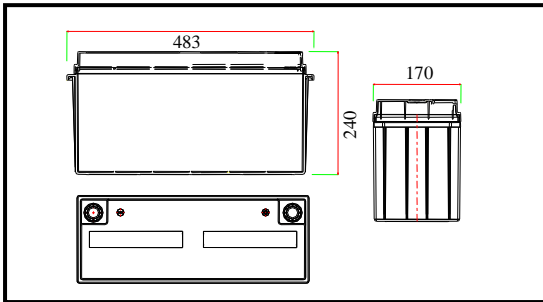
**High Efficiency:** Higher energy efficiency at 92% compared to VRLA battery at 80%.



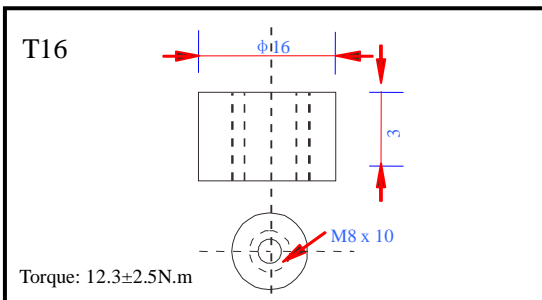
### Specification

Nominal voltage		25.6V
Nominal capacity		100Ah
Dimension	Length	483mm
	Width	170mm
	Height	240mm
	Total height	240mm
Approx. weight		21.5kg

### Outer dimension (mm)



### Terminal Type (mm)

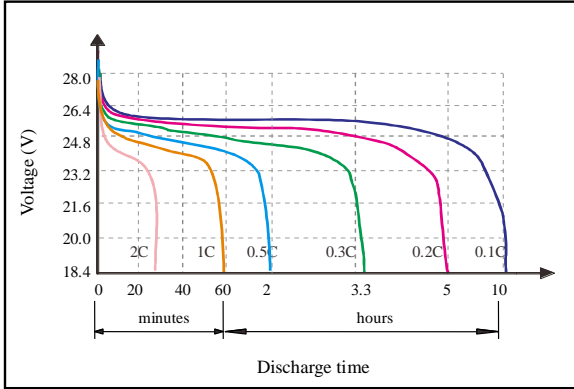


### Characteristic

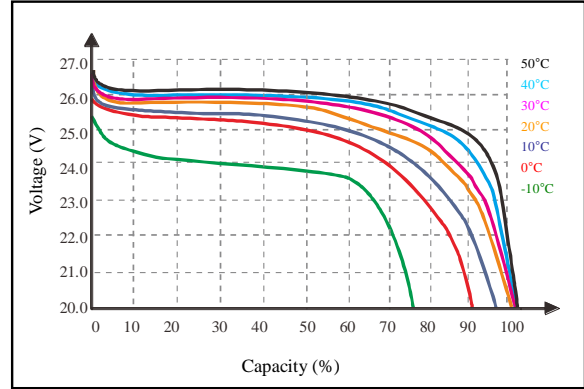
Electrical Parameters (25°C)	Rated Voltage	25.6V
	Rated Capacity (C <sub>5</sub> )	100Ah@ 25°C
	Energy	2560Wh
	1 Month Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Terminal type		T16
Internal resistance (Fully charged, 25°C)		≤10mΩ
Cycle life		>2000 cycles @ 0.2C 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 29.2V, then Constant Voltage 29.2V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		20A
Maximum Charge Current		50A
Charge Cut off Voltage		29.2V
Continuous Discharge Current		100A
Maximum Pulse Current		300A (<100ms)
Discharge Cut Off Voltage		22.4V
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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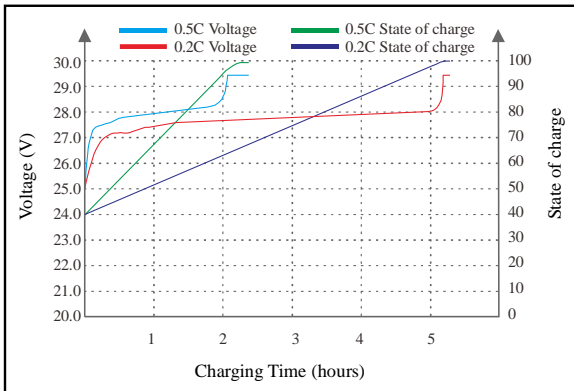
### Discharge characteristics(25°C)



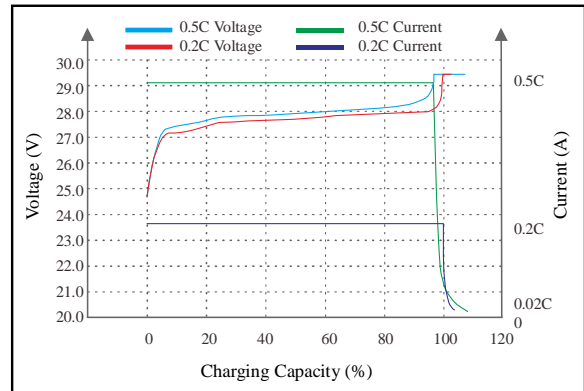
### Temperature effects on discharge characteristics (0.5C)



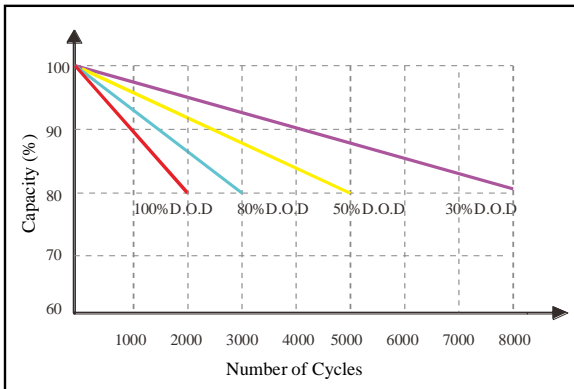
### State of Charge Curve (25°C)



### Charging characteristics



### Cycle Life on DOD (25°C)



### Self Discharge Characteristics Curve

