ASPIRO LFB-12100

ASPIRO Electric

$LiFePO_4$ Lithium Battery

Longer Cycle Life
Offers upto 15 times longer cycle life and 5 times longer float / calendar life than lead acid battery.

Lighter Weight
About 40% weight of a comparable lead acid battery, save up to 60% in weight.

Quick Charge
Short charge time compared with lead acid battery.

Low Self-Discharge
Lower self-discharge compared with lead acid battery, longer storage time without recharging.

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

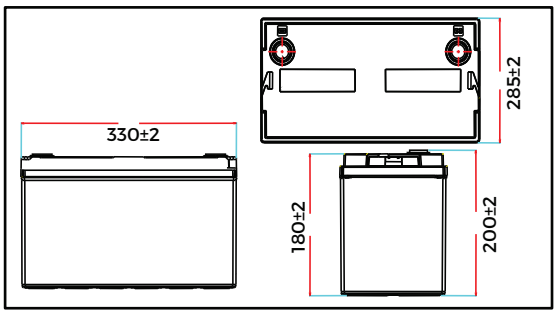
High Efficient
Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



Specifications

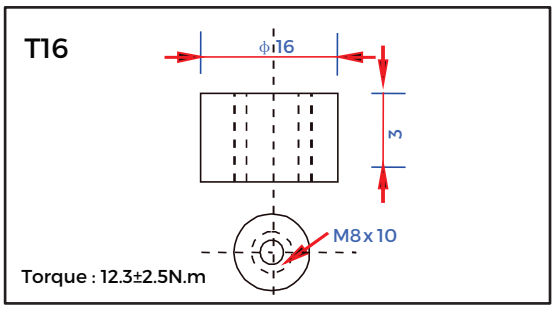
Nominal voltage		12.8V
Nominal capacity		100Ah
Dimensions	Length	330 ± 2mm
	Width	285 ± 2mm
	Height	180 ± 2mm
	Total height	200 ± 2mm
Approx. weight		14kg ± 2%

Outer dimensions (mm)



MAKE IT - 330 X 285 X 180

Terminal type(mm)



Characteristics

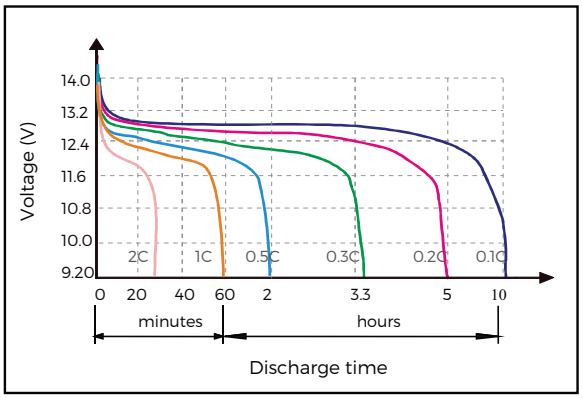
Electrical Parameters (25°C)	Rated Voltage	12.8V
	Rated Capacity(C_5)	100Ah@25°C
	Energy	1280Wh
	Months Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Terminal type		T16
Internal resistance (Fully charged, 25°C)		≤14mΩ
Cycle life		>6000 cycles @ 0.2C 100% D.O.D
Capacity affected by temperature	40°C	101%
	25°C	100%
	0°C	90%
	-10°C	75%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-20°C~60°C (-4°F~140°F)
	Charge	0°C~45°C (32°F~113°F)
	Storage	0°C~40°C (32°F~104°F)
Water Dust Resistance		IP20
Charge Voltage		14.6V
Standard Charge Mode (25°C±2°C,<75%RH)		0.2CA Constant Current to14.6V, then Constant Voltage 14.6V until the current drops to 0.02CA, before use, rest 30 minutes
Recommended Charge Current		20A
Maximum Charge Current		50A
Charge Cut off Voltage		14.6V
Continuous Discharge Current		100A
Maximum Pulse Current		200A (<2s)
Discharge Cut Off Voltage		11.2V
Communicate Protocol		Bluetooth
SOC		LED Display (Inbuilt Bluetooth)
Application connection		1 String
Mechanical	Cells	4 Strings
	Container	METAL

Note 1 : Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

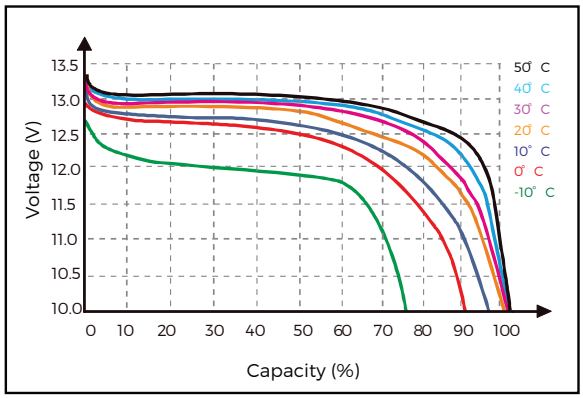
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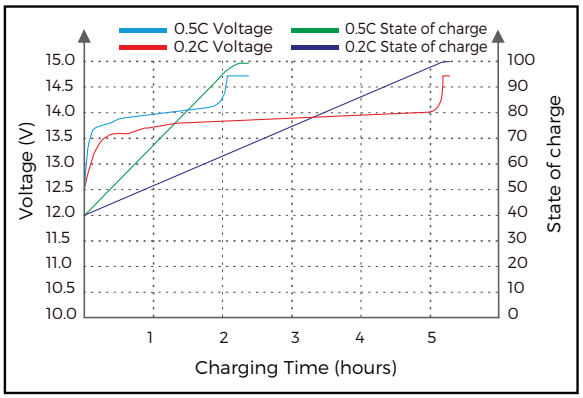
Discharge characteristics (25°C)



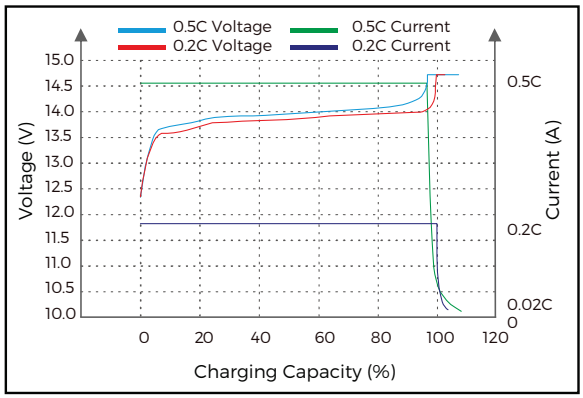
Temperature affect on discharge characteristics (0.5C)



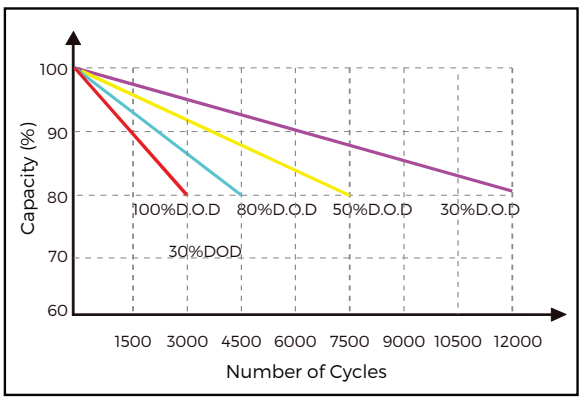
State of Charge Curve (25°C)



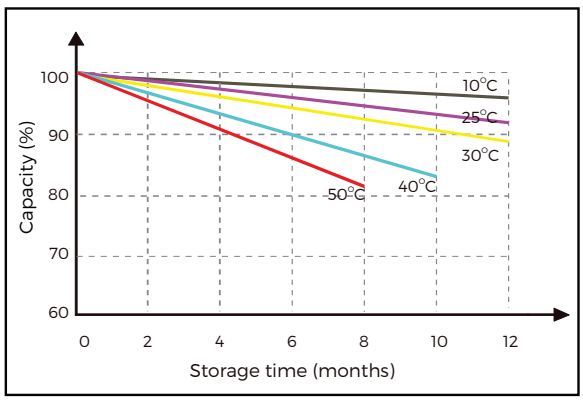
Charge characteristics (25°C)



Cycle life on D.O.D (25°C)



Self Discharge Characteristics Curve



Note 2 : The above curves are based on laboratory testing data @ 25°C 40% RH.

RoHS

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