

# Li-ion Battery Series L12100B



[ L12100 ]

**Long Cycle Life:** provides up to 20 times longer cycle life and 5 times longer float/service life than lead acid, battery help to minimize replacement costs and reduce total cost of ownership.

**Smaller Footprint:** better gravimetric/volumetric specific energy up to 3 times compare with lead acid battery.

**More Available Energy:** deliver twice energy of the lead acid battery, when discharged with heavy load.

**Superior Safety:** build-in BMS——eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation with safe lithium iron phosphate chemistry.

**Fully compatible:** design to replace VRLA battery, compatible with conventional lead acid powered system.

## Technical Parameters

Nominal Voltage (V)	12.8
Nominal Capacity (Ah)	100
Total Energy (Wh)	1280
End Charge Voltage (V)	14.6
Discharge Cut-off Voltage (V)	10
Float Charge Voltage (V)	13.8
Standard Charge/Discharge Current (A)	50 CH / 100 DCH
Max. Charge/Discharge Current (A)	100 CH / 150 DCH
Peak Output Current (A)	150@60s
Lithium Chemistry	LiFePO <sub>4</sub>
Cycle Life	6000 @ 0.5C 80% DOD
Design Life	20 years
Scalability	4P or 4S

## Mechanical Specifications

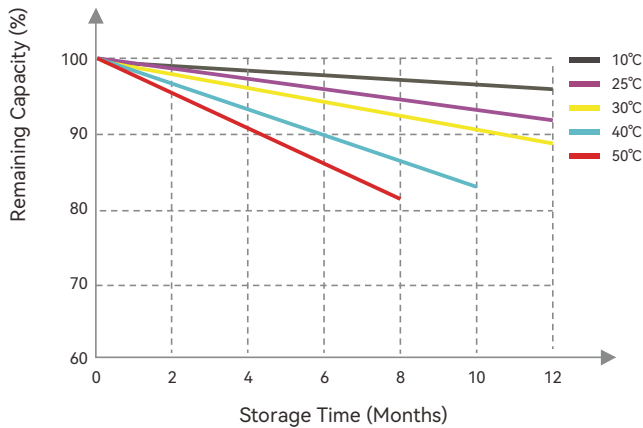
Dimension (mm)	W330 * D172 * H220
Weight (kg)	Approx. 12
Communication	Bluetooth
Ingress Rating	IP 65
Safety Standards	UN38.3, CE

## Environmental Specifications

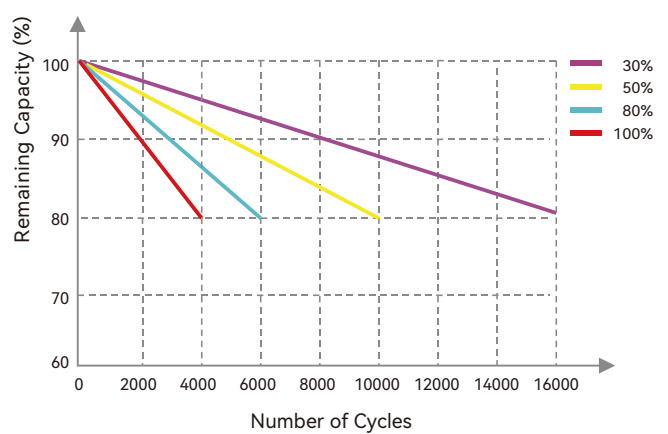
Storage Temperature (°C)	-20 ~ 55
Operating Temperature Charge (°C)	0 ~ 55
Operating Temperature Discharge (°C)	-20 ~ 60
Operating Relative Humidity	5 ~ 95%

## Operating Performance

Different Temperature Self Discharge Curve



Different DOD Discharge Cycle Life Curve (0.5C)



Notes:

Battery should be kept in a dry and ventilated place, avoid direct contact with corrosive substances, also away from sources of fire and heat. Keep the SOC of the battery above 50% if you need to store it for an extended long period. It should be refresh charged every 3 months regularly and SOC should be maintained at about 50% if battery will be stored for a long term.

## Applications



EV



Electric Toy



UPS



Solar Street Light



Renewable Energy



Medical Equipment

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