

Tricycle & Four-Wheeled Vehicle LiFePO4 Battery

LFP-W51.2-105 Lithium Battery



High Cycle Life

6000 cycles @80%DOD, 25°C for effectively lower cost total of ownership.



Longer Service Life

Low maintenance batteries with stable chemistry.



Built In Circuit Protection

Battery Management System (BMS) is incorporated against abuse.



Better Storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



Quickly Recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



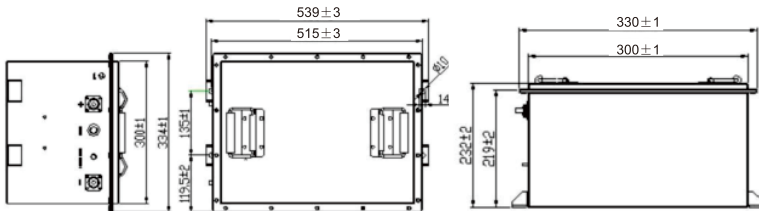
Extreme Heat Tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C



Product Dimension Diagram

515x330x232mm



Application

- Three-wheeled vehicle
- Four-wheeled vehicle
- Golf cart

Unit: mm

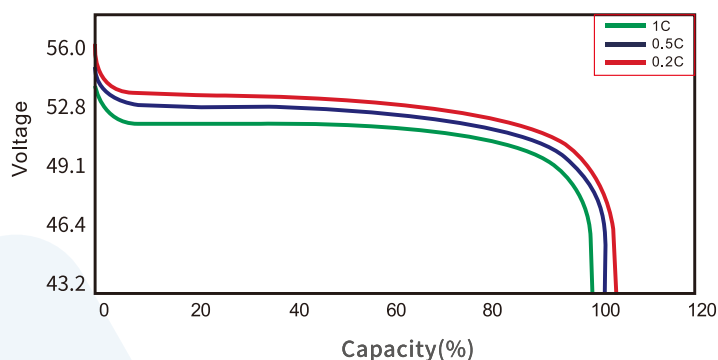
FC IEC CE UN38.3 MSDS

Electrical Characteristics	Chemistry	LiFePO4
	Nominal Voltage	51.2V
	Nominal Capacity	105Ah (C5, 25°C)
	Energy	5376Wh
	Internal Resistance	<10 mΩ
	Cycle Life	>3500 cycles @1C 70%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96-99% @1C
Standard Charge	Charge Voltage	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4V charge current to 0.02C(CC/CV)
	Charger Current	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	58.4V±0.2V
Standard Discharge	Rated Discharge Current	50A
	Max Discharge Current	100A
	Max. Pulse Current	300A(<3s)
	Discharge Cut-off Voltage	40V
	Charge Temperature	0 C to 45 C(32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 C to 60 C(-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 C to 40 C(32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	BMS	4P / Pre-heat
	Communication function	LCD display
	Plastic Case	SPCC metal case
	Dimensions (in./mm.)	515x330x232mm
	Weight (lbs./kg.)	45.35kg(84.44lbs)
	Terminal	M8*18

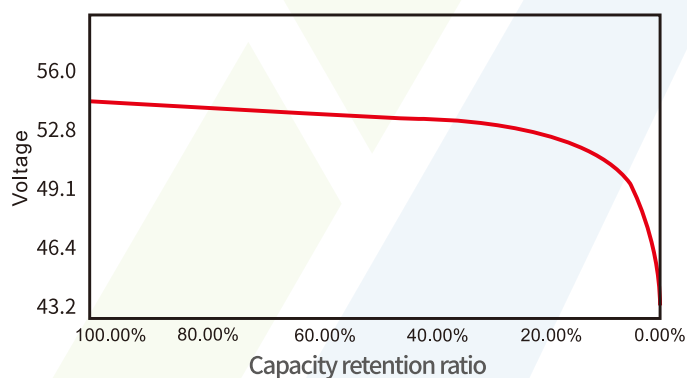
Number of Cycles Vs. DOD

Number of cycle (cycles)	Capacity (%) at 100% DOD	Capacity (%) at 80% DOD	Capacity (%) at 50% DOD
0	100	100	100
3000	80	92	95
6000	-	80	88
10000	-	-	80

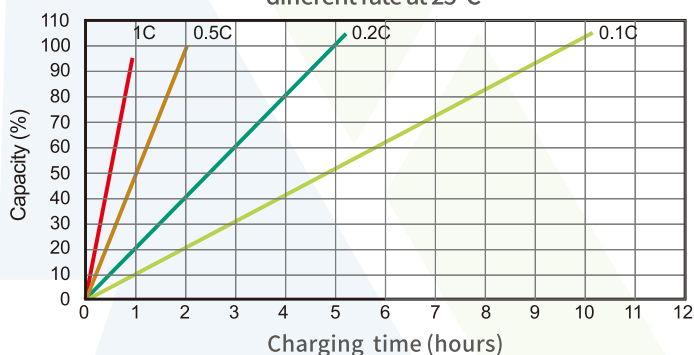
Discharge Performance at R.T.



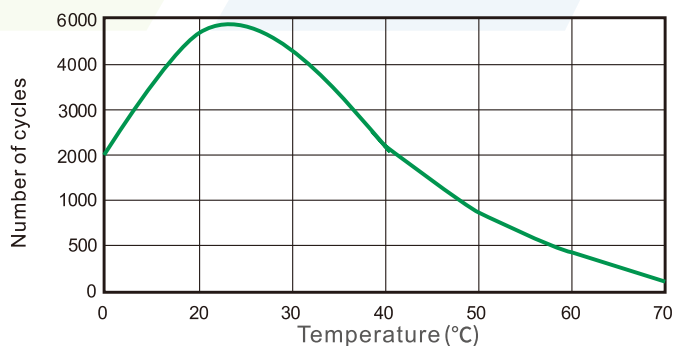
SOC V_s OCV



Charging capacity(%) VS time with different rate at 25°C



Cycle Life in Relation to Temperature



Temperature Effects on Capacity

