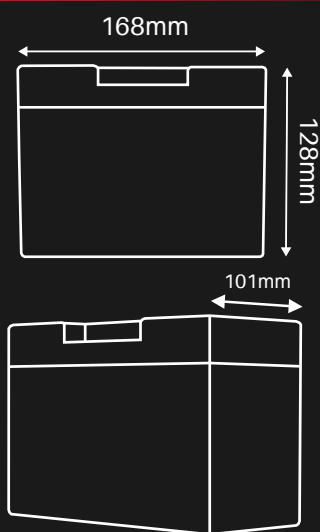




OLA-12-24

FC IEC CE
UN38.8 MSDS

Product Dimension Diagram



Application

- Golf cars
- Electric boats and vehicles
- Solar/Wind energy storage
- system
- RV mover
- E-wheelchair
- Lighting



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.

Olalitia Smart BMS LiFePO4 Battery



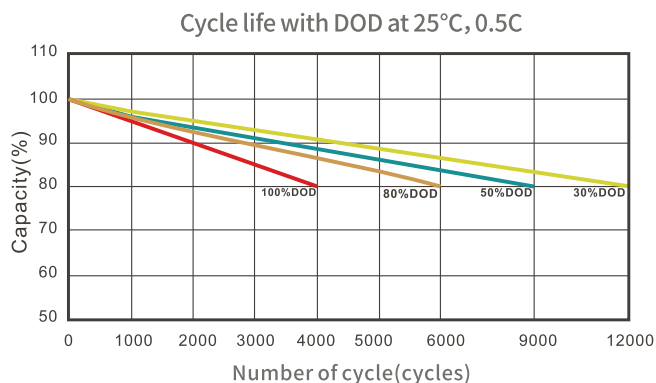
Basic information	Nominal Voltage	12.8V
	Nominal Capacity	24Ah (C ₅ , 25°C)
	Energy	307.2Wh
	Internal Resistance	≤10mΩ@50%SOC
	Cycle Life	>2000 cycles@1C&100%DOD
	Monthly Self Discharge	<3%
	Efficiency of Charge	100%@1C
	Efficiency of Discharge	96-99%@1C
Charge	Charge Mode	0.5C to 14.6V, then 14.6V, charge to current till 0.02C(CC/CV)
	Continuous charge current	24A
	Recom. Charge Current	4.8A
	Max. Pulse Charge Current	72A<3S
	Charge Cut-off Voltage	14.6V±0.2V
Discharge	Continuous Current (MAX)	48A
	Recom. Discharge Current	4.8A
	Max. Pulse Discharge Current	72A<3S
	Discharge Cut-off Voltage	10.8V
Environmental	Charge Temperature	0°C to 45°C (32°F to 113°F) @60±25% Relative Humidity
	Discharge Temperature	20°C to 60°C (-4°F to 140°F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32°F to 104°F) @60±25% Relative Humidity
	Water Dust Resistance	IP64
Mechanical	Cell & Method	3.2v 24AH
	Case	Plastic
	Dimensions (in./mm.)	168L*128W*101H
	Weight (lbs./kg.)	N.W.: .47Kg
	Terminal	M6
	BMS	4548A
	Connection	Max. 4 Series and 4 Parallel connection

Olalitio Smart BMS LiFePO4 Battery

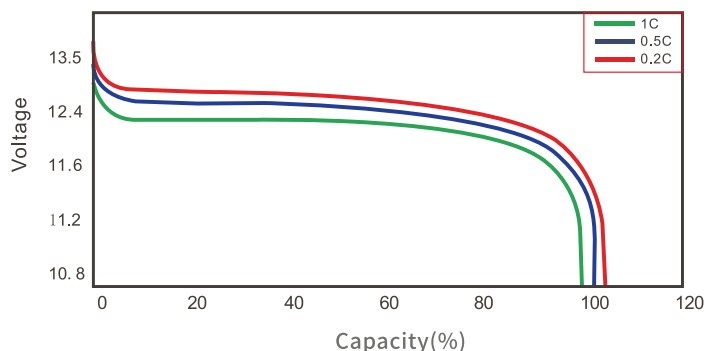


Model Performance Diagrams

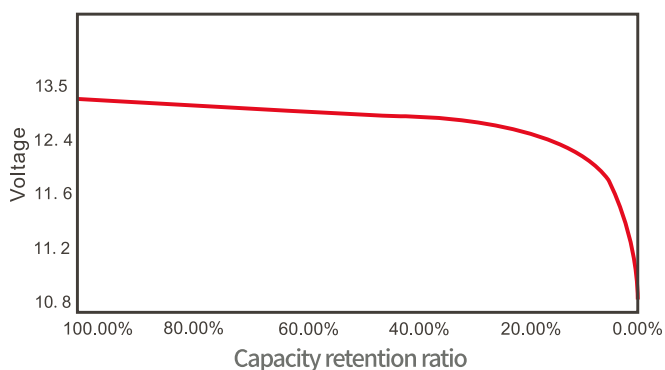
Number of Cycles Vs. DOD



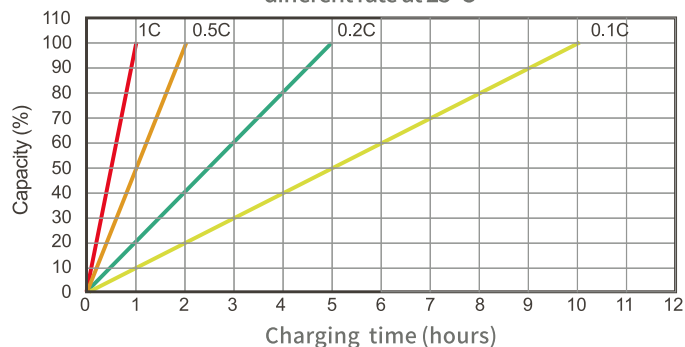
Discharge Performance at R.T.



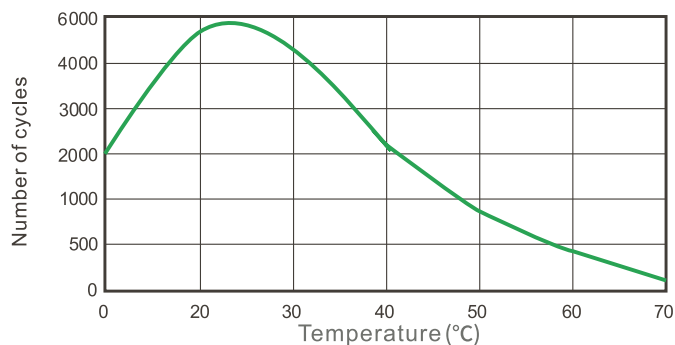
Battery Capacity (C) VS. Open Circuit Voltage (OCV)
SOC Vs OCV



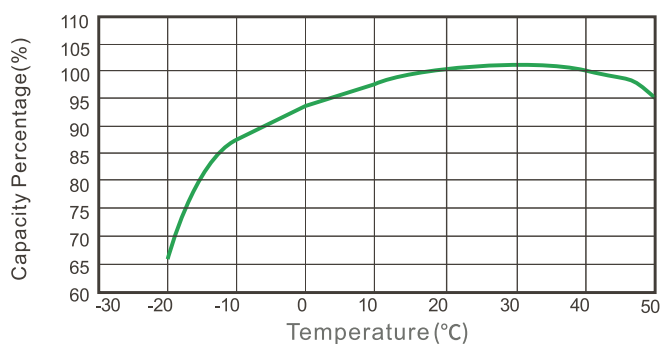
Battery Capacity Vs. Charging Time
Charging capacity(%) VS time with different rate at 25°C



Cycle Life in Relation to Temperature



Temperature Effects on Capacity



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