

LiFePO₄ RV&Marine Battery

RTLB-12.8-100/150/200



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.



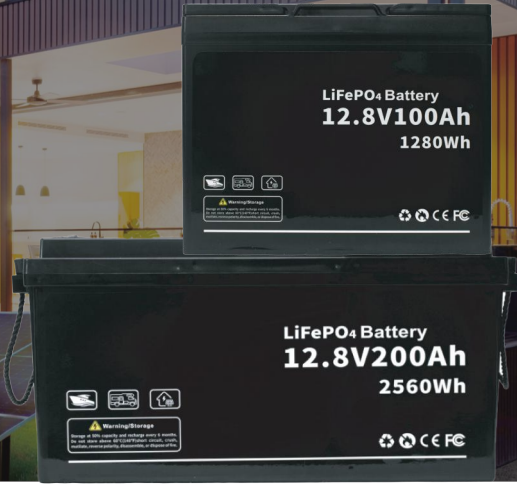
Quickly Recharge

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



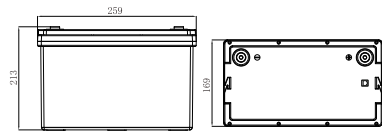
Extreme Heat Tolerance

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

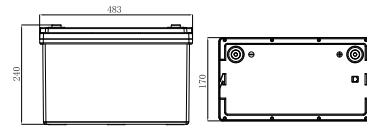


Product Dimension Diagram

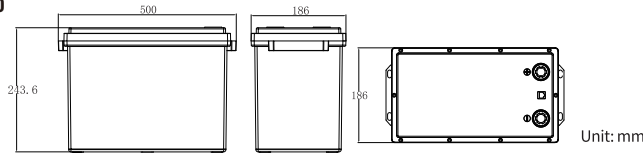
RTL12.8-100



RTL12.8-150



RTL12.8-200



Unit: mm

Application

- Electric vehicles.
- Solar/wind energy storage system.
- UPS, backup power.
- Telecommunication
- Medical equipment
- Lighting

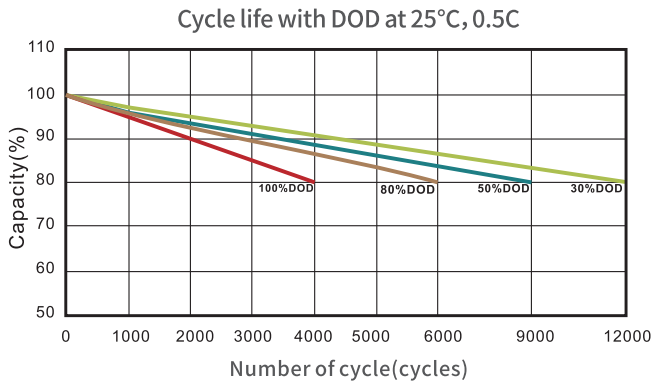
Electrical Characteristics	RTL12.8-100	RTL12.8-150	RTL12.8-200
Nominal Voltage	12.8V		
Nominal Capacity	100Ah (Cs,25°C)	150Ah (Cs,25°C)	200Ah (Cs,25°C)
Energy	1280Wh	1920Wh	2560Wh
Internal Resistance	<10mΩ@50%SOC		
Cycle Life	>6000cycles@0.5C&80%DOD	>6000cycles@0.5C&80%DOD	>4000cycles@0.5C&80%DOD
Months Self Discharge	<3%		
Efficiency of Charge	100%@1C	100%@0.5C	100%@1C
Efficiency of Discharge	96-99%@1C	96-99%@0.5C	96-99%@1C
Standard Charge			
Charge Mode	0.5C to 14.6V, then 14.6V, charge to current till 0.02C(CC/CV)	0.5C to 14.6V, then 14.6V, charge to current till 0.5C(CC/CV)	0.2C to 14.6V, then 14.6V, charge to current till 0.02C(CC/CV)
Continuous Current	100A	75A	200A
Recom. Charge Current	50A	30A	100A
Max. Charge Current	200A<2S	150A	400A<2S
Charge Cut-off Voltage	14.6V±0.2V		
Standard Discharge			
Continuous Current	100A	75A	200A
Recom. Discharge Current	50A	30A	100A
Max. Pulse Discharge Current	200A<2S	150A	400A<2S
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	IP65		
Mechanical			
Cell & Method	3.2V100Ah-4S1P(UL9540/UL1973)	3.2V150Ah-4S1P(UL9540/UL1973)	CORNEX 3.2V100Ah-4S2P(UL9540/UL1973)
Case	ABS		
Dimensions (in./mm.)	259x169x213mm/Package:289x199x243mm	483x170x240mm/Package:515x200x270mm	500x186x243.6mm/Package:530x216x273.6mm
Weight (lbs./kg.)	N.W.9.5Kg/G.W.: 10.5Kg	N.W.13Kg/G.W.: 13.5Kg	N.W.20.5Kg/G.W.: 23Kg
Terminal	M8		
Communication	CAN / bluetooth (optional)		
BMS	4S100A	4S150A	4S200A
Parallel	Up to 4 units		

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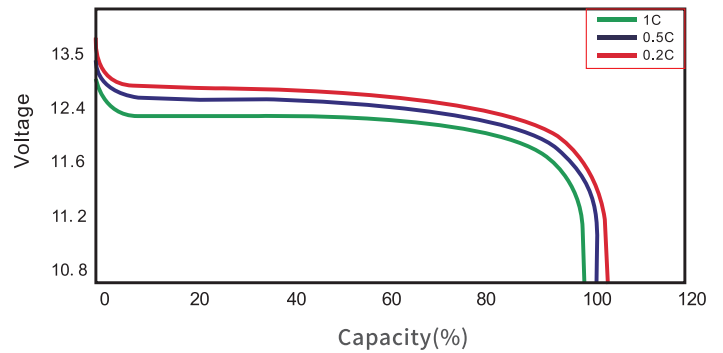


» Model Performance Diagrams

Number of Cycles Vs. DOD

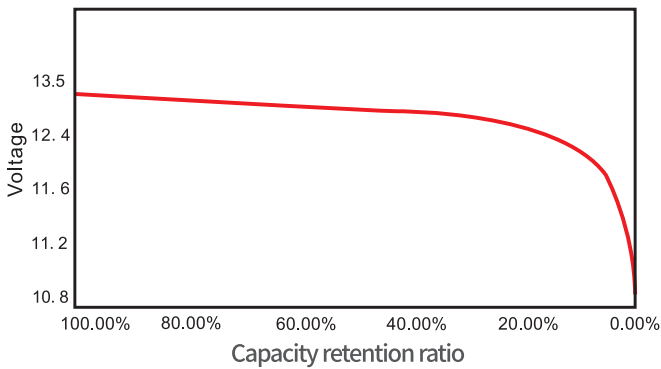


Discharge Performance at R.T.



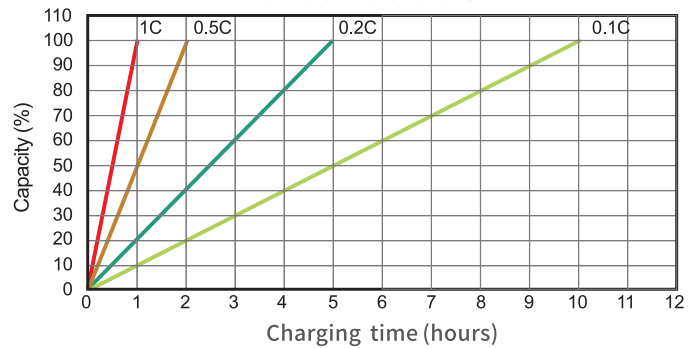
Battery Capacity (C) VS. Open Circuit Voltage (OCV)

SOC Vs OCV

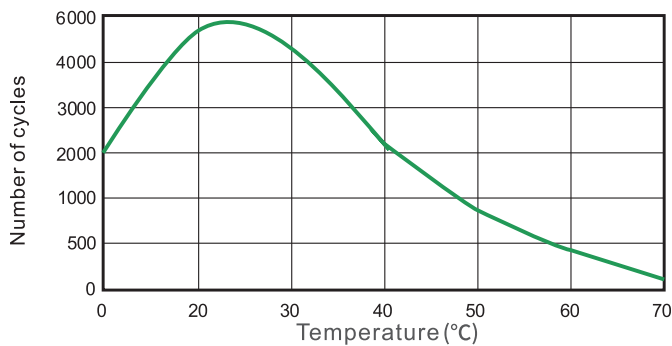


Battery Capacity Vs. Charging Time

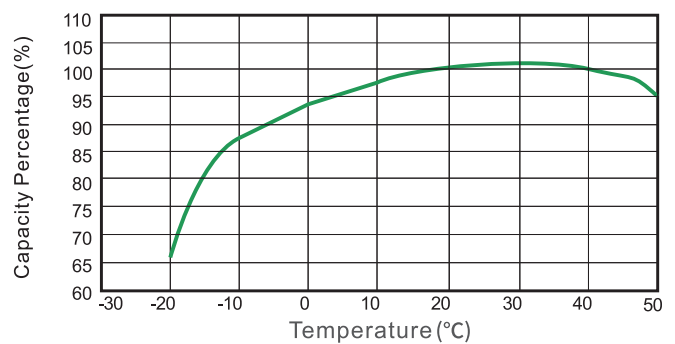
Charging capacity (%) VS time with different rate at 25°C



Cycle Life in Relation to Temperature



Temperature Effects on Capacity



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