

Wall Mounted LiFePO₄ Battery

RTL-25.6-100/150/200

RestarSolar Quality Maker®
Restarsolar, power the life



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



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.



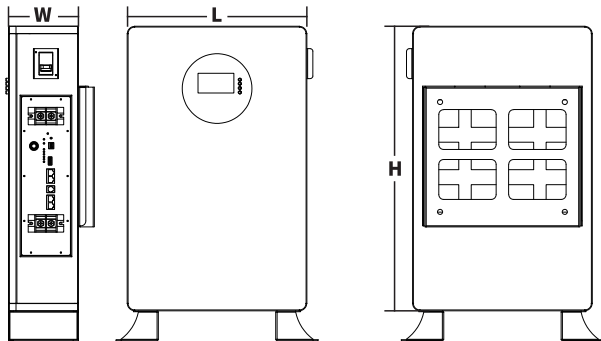
Quickly Recharge
Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



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



Unit: mm

Application

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

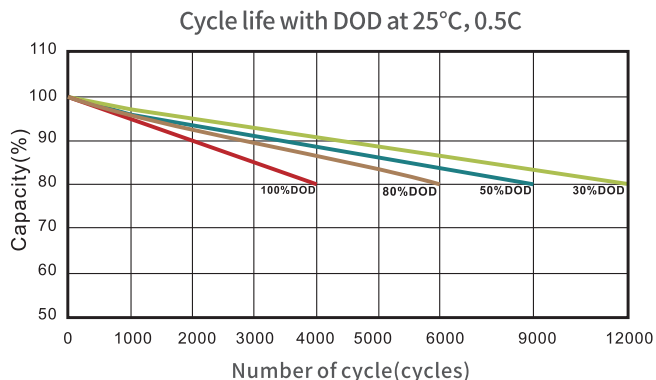


MODEL	RTL-25.6-100	RTL-25.6-150	RTL-25.6-200
Electrical Characteristics	25.6V100AH	25.6V150AH	25.6V200AH
Nominal Voltage	25.6V		
Nominal Capacity	100Ah(Cs, 25°C)	150Ah(Cs, 25°C)	200Ah(Cs, 25°C)
Energy	2560Wh	3840Wh	5120Wh
Internal Resistance	≤10mΩ@50%SOC		
Cycle Life	>6000 cycles		
Months Self Discharge	<3%		
Efficiency of Charge	100%@0.5C		
Efficiency of Discharge	96-99%@0.5C		
Standard Charge			
Charge Mode	0.2C to 29.2V, then 29.2V, charge to current till 0.02C(CC/CV)		
Continuous Current	50A	75A	100A
Recom. Charge Current	20A	30A	40A
Max. Charge Current	100A	150A	200A
Charge Cut-off Voltage	29.2V±0.2V		
Standard Discharge			
Continuous Current	50A	75A	100A
Recom. Discharge Current	20A	30A	40A
Max. Discharge Current	100A	150A	200A
Discharge Cut-off Voltage	21.6V		
Environmental			
Charge Temperature	0°C to 45°C (30°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	IP20		
Mechanical			
Cell & Method	3.2V100AH-8S1P	3.2V150AH-8S1P	3.2V100AH-8S2P
Metal Case	Metal		
Dimensions (mm.) (H x L x W)	570x360x140	410x320x230	600x420x160
Package Dimension(mm.) (H x L x W)	680x410x216	445x355x265	710x485x341
Weight (kg.)	N.W.:27.5Kg/G.W.: 31.6Kg	N.W.: 35Kg/G.W.: 37Kg	N.W.: 47Kg/G.W.: 59.8Kg
Terminal	100A Connector	150A Connector	200A Connector
Communication	RS485/RS232/CAN		
BMS	8S100A	8S150A	8S200A
Parallel	Up to 16 units		

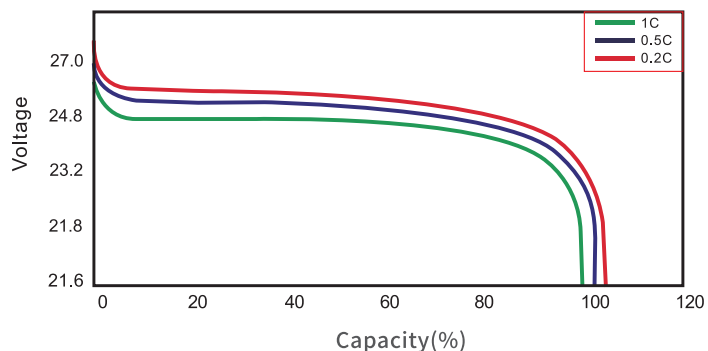
Wall Mounted LiFePO₄ Battery RTL-25.6-Lithium Battery

» Model Performance Diagrams

Number of Cycles Vs. DOD

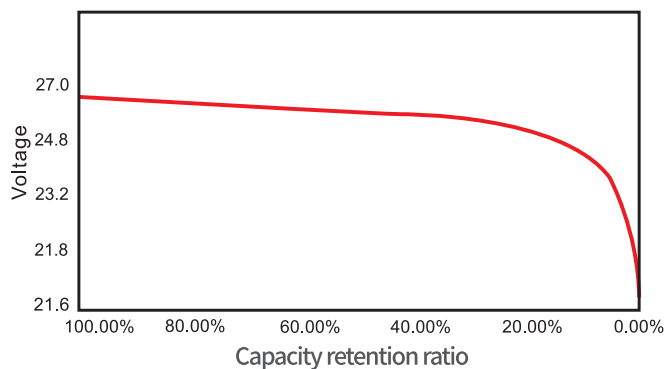


Discharge Performance at R.T.



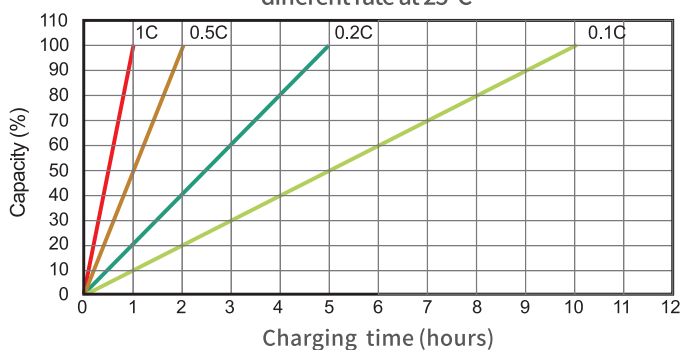
Battery Capacity (C) VS. Open Circuit Voltage (OCV)

SOC Vs OCV

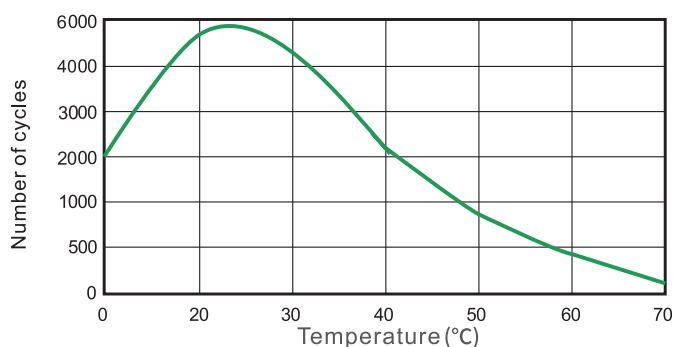


Battery Capacity Vs. Charging Time

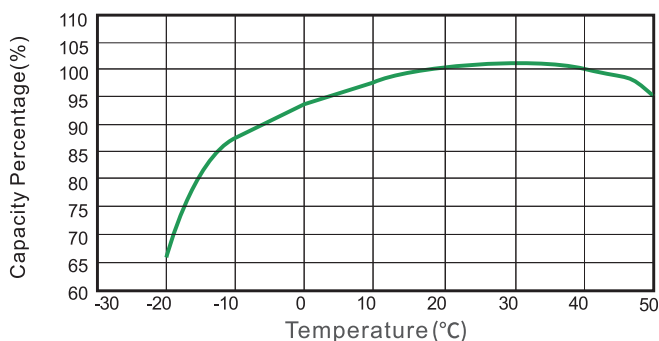
Charging capacity (%) VS time with different rate at 25°C



Cycle Life in Relation to Temperature



Temperature Effects on Capacity



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