

Wall Mounted LiFePO₄ Battery

RTL-51.2-100/150/200/300



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.



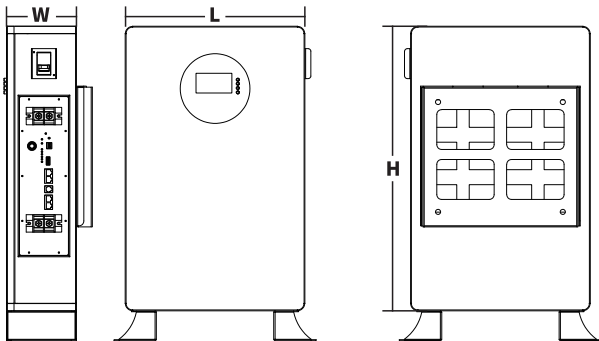
Quickly Recharge
Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



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-51.2-100	RTL-51.2-150	RTL-51.2-200	RTL-51.2-300	RTL-51.2-300
Electrical Characteristics	51.2V100AH	51.2V150AH	51.2V200AH	51.2V300AH	51.2V314AH
Nominal Voltage	51.2V				
Nominal Capacity	100Ah	150Ah	200Ah	300Ah	314Ah
Energy	5120Wh	7680Wh	10240Wh	15360Wh	17500Wh
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 58.4V, then 58.4V, charge to current till 0.02C(CC/CV)				
Continuous Current	50A	75A	100A	150A	100A
Recom. Charge Current	20A	30A	40A	60A	70A
Max. Charge Current	100A	150A	200A	200A	200A
Charge Cut-off Voltage	58.4V±0.2V				
Standard Discharge					
Continuous Current	50A	75A	100A	150A	100A
Recom. Discharge Current	20A	30A	40A	60A	60A
Max. Discharge Current	100A	150A	200A	200A	200A
Discharge Cut-off Voltage	43.2V				
Environmental					
Charge Temperature	0°C to 80°C @ 60±25% Relative Humidity				
Discharge Temperature	-20°C to 80°C @ 60±25% Relative Humidity				
Storage Temperature	0°C to 80°C @ 60±25% Relative Humidity				
Water Dust Resistance	IP20				
Mechanical					
Cell & Method	EVE 3.2V100AH-16S1P	EVE 3.2V150AH-16S1P	EVE 3.2V100AH-16S2P	EVE 3.2V280AH-16S1P	EVE 3.2V314AH-16S1P
Metal Case	Metal				
Dimensions (mm.) (H x L x W)	600x420x160	560x460x225	860x540x160	780x485x240	860x485x240
Package Dimension(mm.) (H x L x W)	710x495x341(Wooden)	670x530x405	970x615x345	910x550x409	990x550x409
Weight (kg.)	N.W.:47.3Kg/G.W.:59.4Kg	N.W.:66.3Kg/G.W.: 80Kg	N.W.:90.2Kg/G.W.: 109.1Kg	N.W.:114.8Kg/G.W.: 130.6Kg	N.W.:115.0Kg/G.W.: 131.0Kg
Terminal	100A Connector	150A Connector	200A Connector	200A Connector	180A Connector
Communication	RS485/RS232/CAN				
BMS	16S100A	16S150A	16S200A	16S200A	16S200A
Parallel	Up to 16 units				

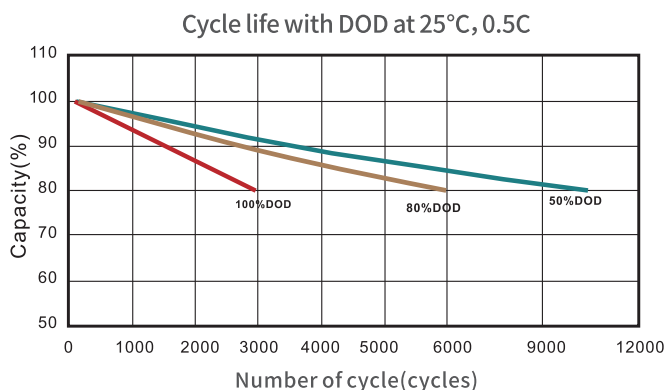
Wall Mounted LiFePO₄ Battery

RTLB-51.2-Lithium Battery

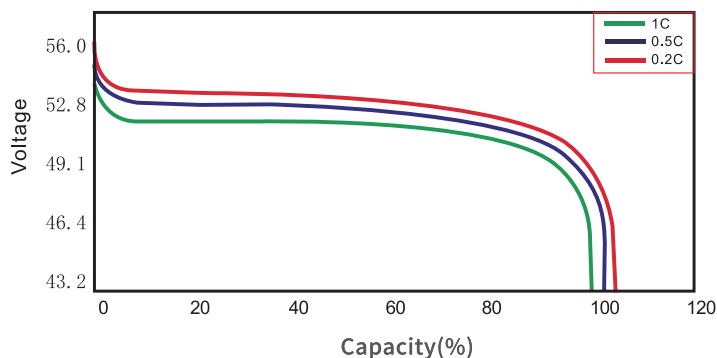


» Model Performance Diagrams

Number of Cycles Vs. DOD

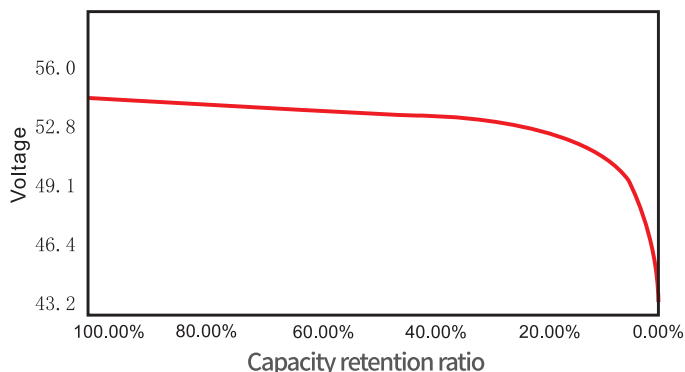


Discharge Performance at R.T.



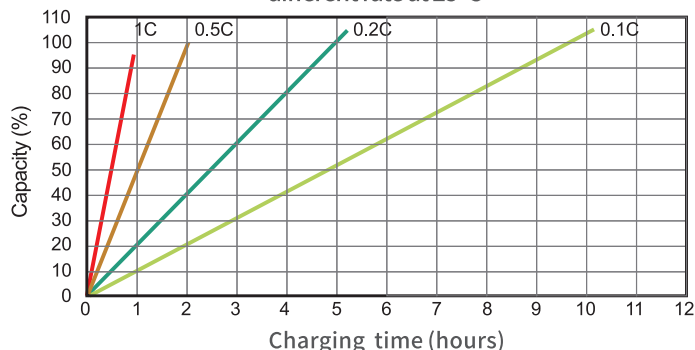
Battery Capacity (C) VS. Open Circuit Voltage (OCV)

SOC Vs OCV

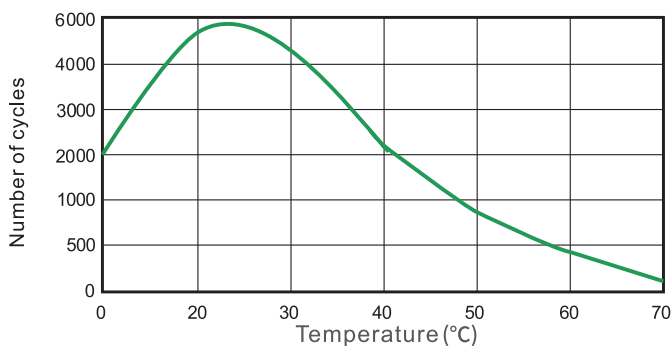


Battery Capacity Vs. Charging Time

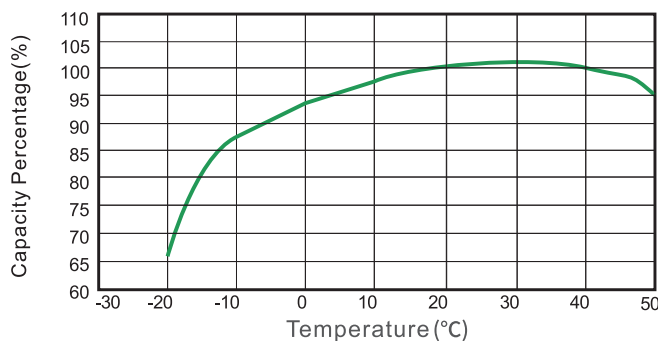
Charging capacity(%) VS time with different rate at 25°C



Cycle Life in Relation to Temperature



Temperature Effects on Capacity



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