

RL12-100

12.8V - 100AH

1280WH



REVOLITHIUM
INDUSTRIAL BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	100 AH
Energy	1280 WH
Resistance	≤ 45 MΩ
Maximum Modules in Series	Up to 4S (51.2V)

CHARGE SPECIFICATIONS

Recommended Charge Current	50 A
Recommended Charge Voltage	14.2 V-14.6 V
BMS Charge Voltage Cut-Off	14.6 V (3.65 ±0.5 vpc) (1.1 ±0.4 s)
Reconnect Voltage	14.4 V (3.6 ±0.05 vpc)
Charging method	CC-CV

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	200 A (<2S)
Peak Discharge Current	X 11 V (2.75 vpc)
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (20 ±6 ms)
Reconnect Voltage	10 V (2.5 ±0.05 vpc)
Short Circuit Protection	200-600 μs

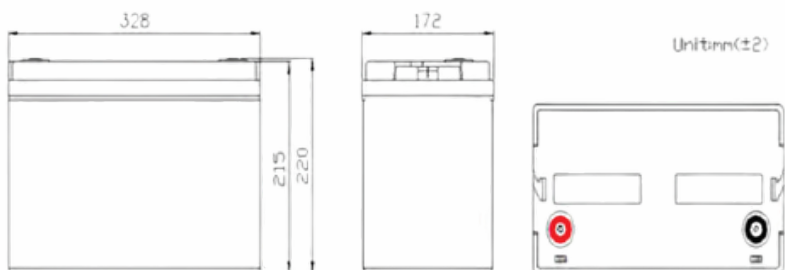
TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20°C to 60 °C
Charge Temperature	0 °C to 50 °C
Recommend Storage Temperature	-5°C to 35 °C

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	328 x 172 x 220 mm
Weight	13.1 Kg
Terminal Type	M8
Case Material	ABS
Enclosure Protection	IP55

DIMENSIONAL SPECIFICATIONS

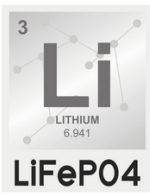


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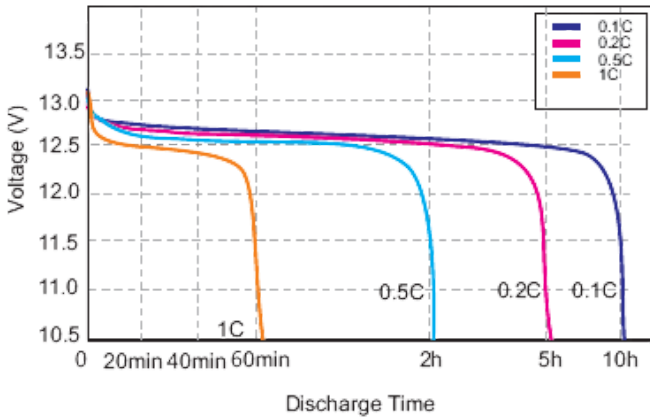
1280WH



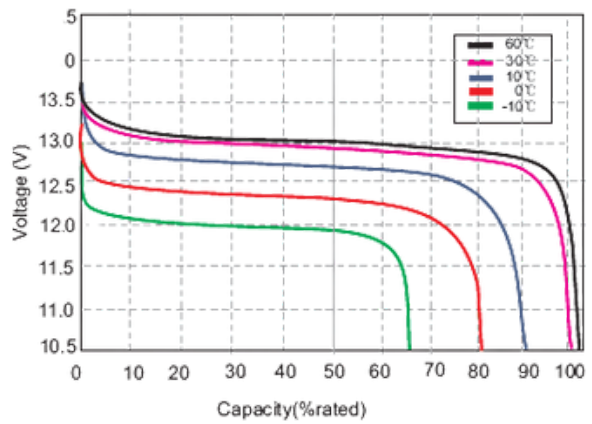
REVOLITHIUM
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PERFORMANCE CURVE

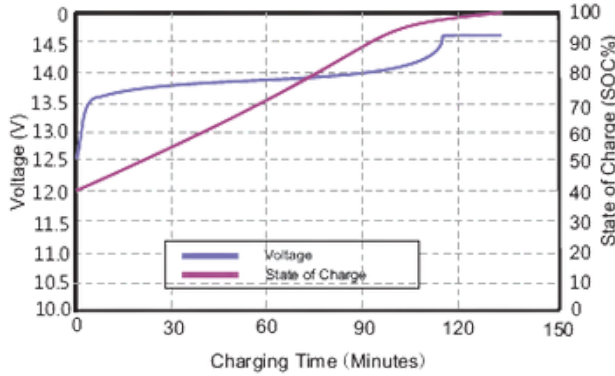
Different Rate Discharge Curve @25C



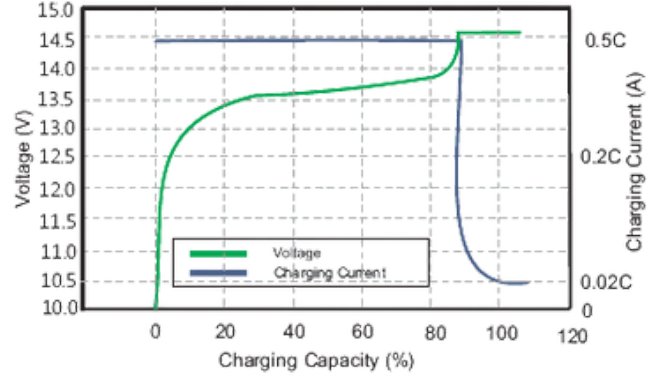
Different Temperature Discharge Curve @0.5C



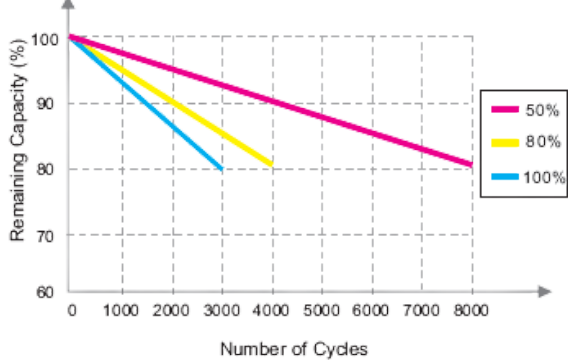
State of Charge Curve @0.5C 25C



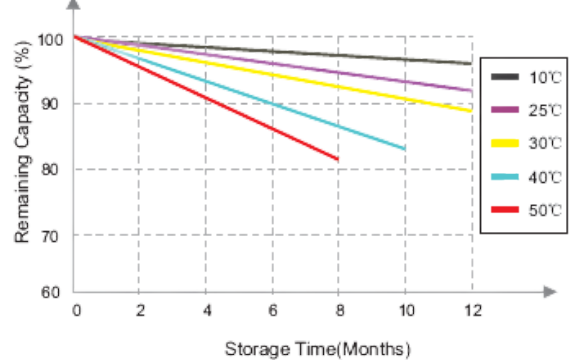
Charging Characteristics @0.5C 25C



Different DOD Discharge Cycle life Curve @0.2C 25C



Different Temperature Self Discharge Curve



CE UL UN38.3



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