

RL12-42

12.8V - 42AH

537WH



REVOLITHIUM
INDUSTRIAL BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	42 Ah
Energy	537 Wh
Resistance	≤ 50 mΩ
Maximum Modules in Series	Up to 4S (51.2V)

CHARGE SPECIFICATIONS

Recommended Charge Current	21A
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	42 A
Peak Discharge Current	80 A (<2S)
Recommended Low Voltage Disconnect	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

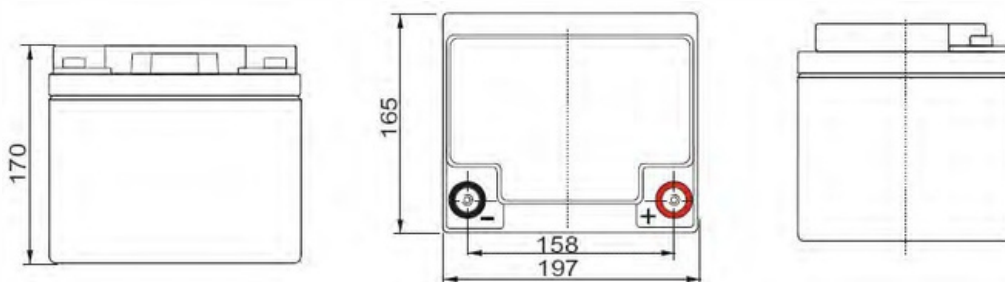
TEMPERATURE SPECIFICATIONS

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)	197 x 165 x 170 mm
Weight	5.5 Kg
Terminal Type	M6
Case Material	ABS
Enclosure Protection	IP55

DIMENSIONAL SPECIFICATIONS

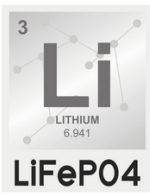


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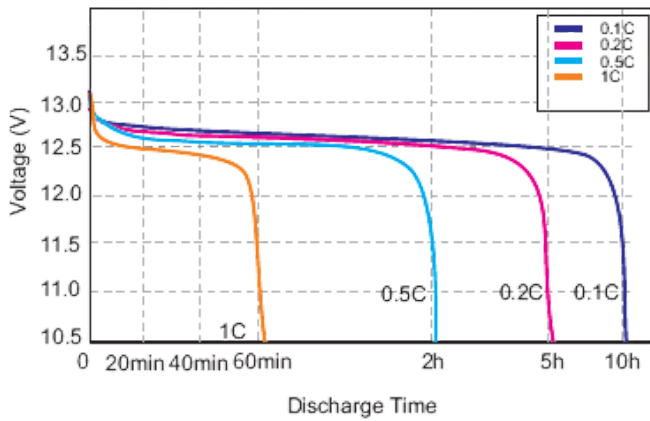
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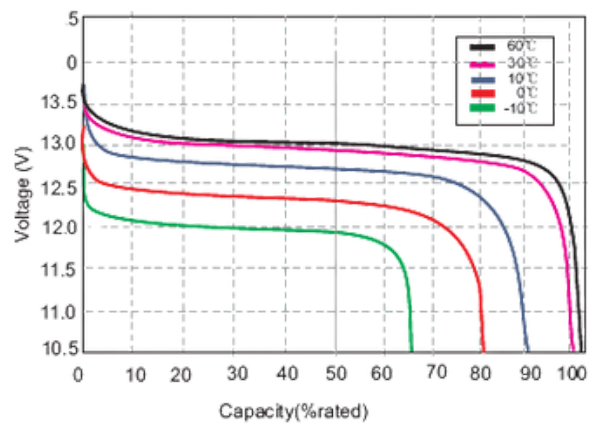
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PERFORMANCE CURVE

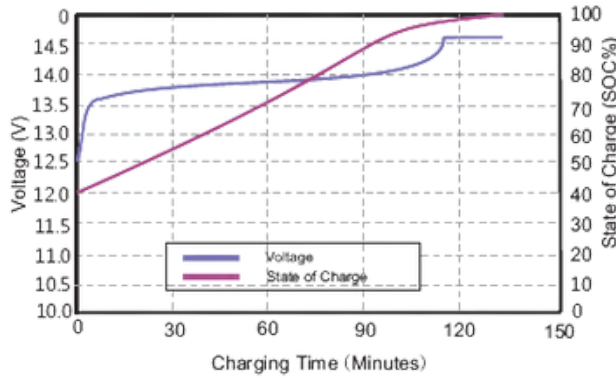
Different Rate Discharge Curve @25C



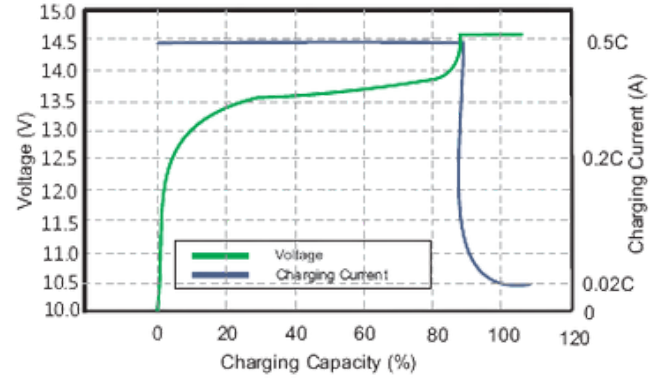
Different Temperature Discharge Curve @0.5C



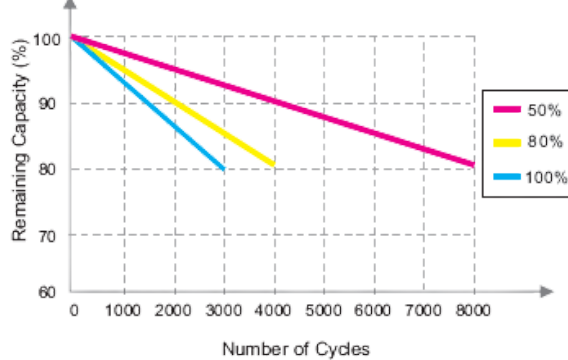
State of Charge Curve @0.5C 25C



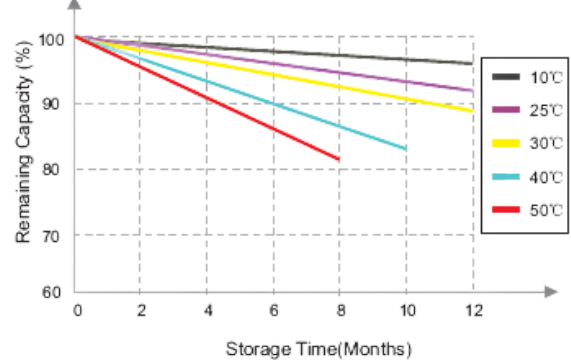
Charging Characteristics @0.5C 25C



Different DOD Discharge Cycle life Curve @0.2C 25C



Different Temperature Self Discharge Curve



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