

# RL12-55

12.8V - 55AH

691WH



**REVOLITHIUM**  
INDUSTRIAL BATTERY

## ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	54 Ah
Energy	691 Wh
Resistance	≤ 50 mΩ
Maximum Modules in Series	Up to 4S (51.2V)

## CHARGE SPECIFICATIONS

Recommended Charge Current	27A
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	54 A
Peak Discharge Current	120 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

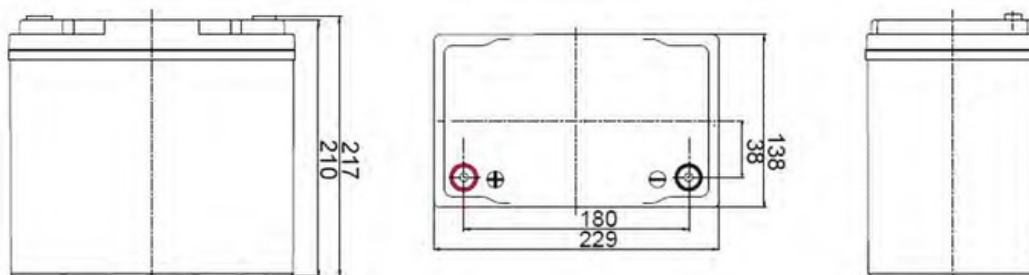
## TEMPERATURE SPECIFICATIONS

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)	229 x 138 x 217 mm
Weight	6.8Kg
Terminal Type	M6
Case Material	ABS
Enclosure Protection	IP55

## DIMENSIONAL SPECIFICATIONS

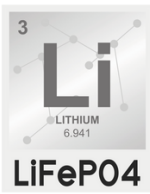


**IBS Italia - Industrial Battery Service Italia S.r.l.**

Via E. Cavaglia 3 - 20139 MILANO (MI) - ITALY

e-mail: [assistenza@ibsbatterie.it](mailto:assistenza@ibsbatterie.it) - [commerciale@ibsbatterie.it](mailto:commerciale@ibsbatterie.it)

Tel. (+39) 02 21.11.69.68



# RL12-55

12.8V - 55AH

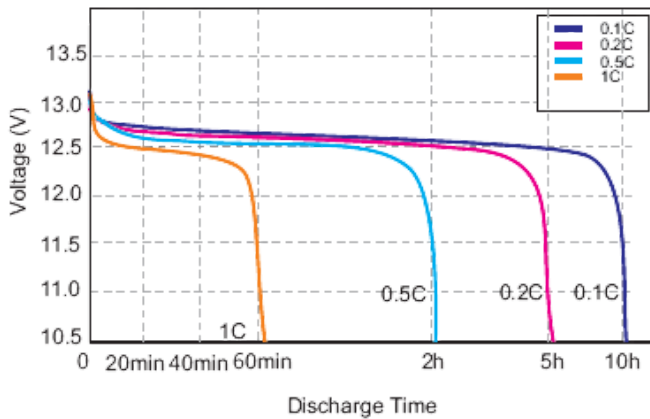
691WH



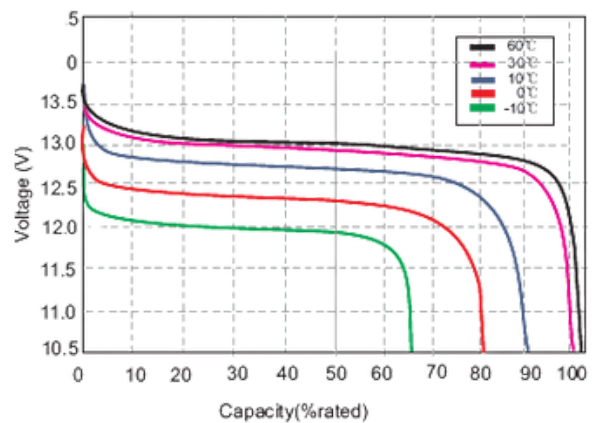
**REVOLITHIUM**  
INDUSTRIAL BATTERY

## PERFORMANCE CURVE

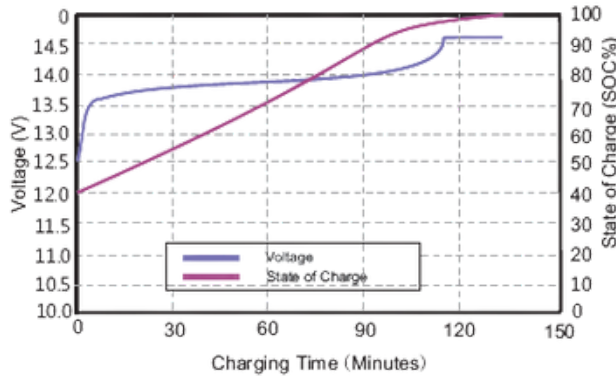
Different Rate Discharge Curve @25C



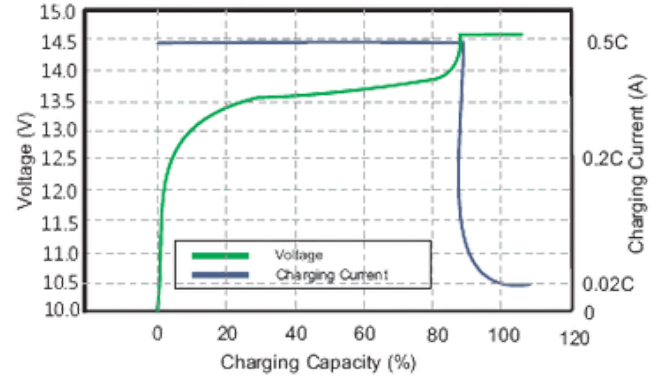
Different Temperature Discharge Curve @0.5C



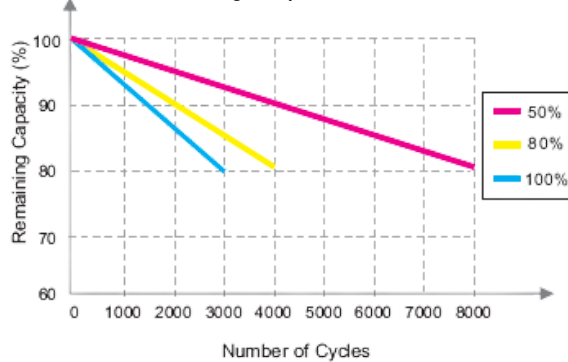
State of Charge Curve @0.5C 25C



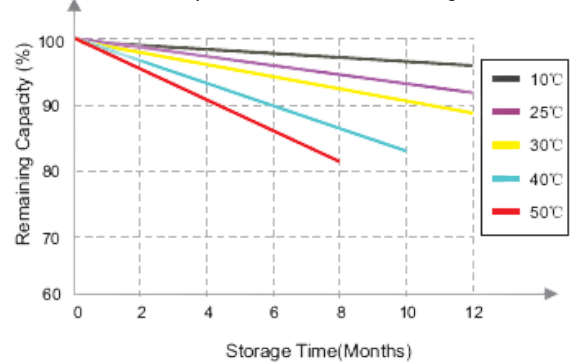
Charging Characteristics @0.5C 25C



Different DOD Discharge Cycle life Curve @0.2C 25C



Different Temperature Self Discharge Curve



IBS Italia - Industrial Battery Service Italia S.r.l.

Via E. Caviglia 3 - 20139 MILANO (MI) - ITALY

e-mail: [assistenza@ibsbatterie.it](mailto:assistenza@ibsbatterie.it) - [commerciale@ibsbatterie.it](mailto:commerciale@ibsbatterie.it)

Tel. (+39) 02 21.11.69.68