

# **Technical Information of LG 18650HB2**

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**Mobile Energy Division**



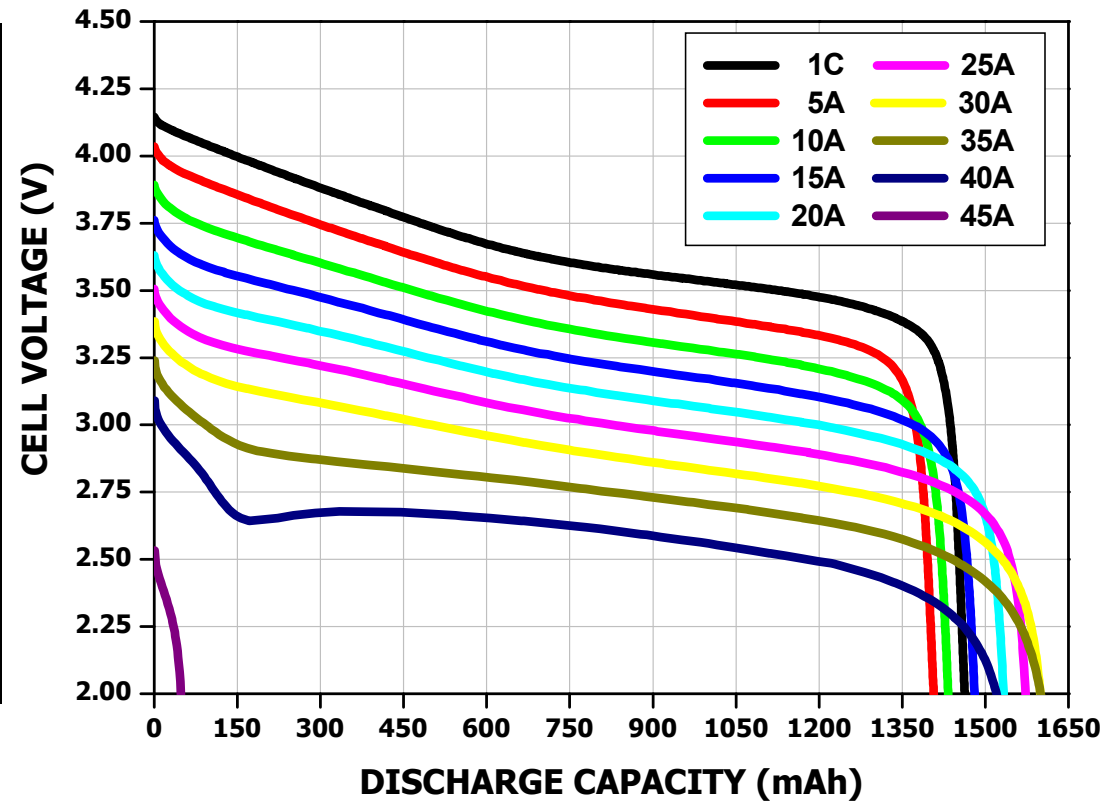
# Introduction of HB2-1.5Ah(30A)

		HB2	Note	
Performance	0.2C Discharge Capacity (mAh)		1500	Nominal Capacity
	ACIR(mΩ)		12	1KHz Impedance
	DCIR(mΩ)		25	1A/10A Pulse Discharge
	Rate Capability Ratio(%) (30A vs. 1C)	Capacity	106	
		Energy	87	
	Max. Temp.(°C) at 30A		65	
	Cycle life Ratio(% vs. initial)	5A	65%@1000 <sup>th</sup> cycle	Charge (CC/CV): 4A charge to 4.2V, 100mA Cut-off
		10A	87%@500 <sup>th</sup> cycle	
20A		87%@500 <sup>th</sup> cycle		
30A		75%@500 <sup>th</sup> cycle		

# Discharge Characteristics

## Discharge Characteristics

Discharge rate		0.2 C	1 C	5A	10A	15A	20A	30A
Capacity	mAh	1540	1474	1417	1423	1446	1517	1571
	%	-	100	96.2	96.6	98.1	102.9	106.7
Energy	Wh	5.7	5.4	5.1	4.9	4.9	4.9	4.7
	%	-	100	93.7	91.5	91.1	90.9	87.4
Max cell Skin Temp.	°C	25.1	26.1	30.1	36.0	41.5	49.8	62.2

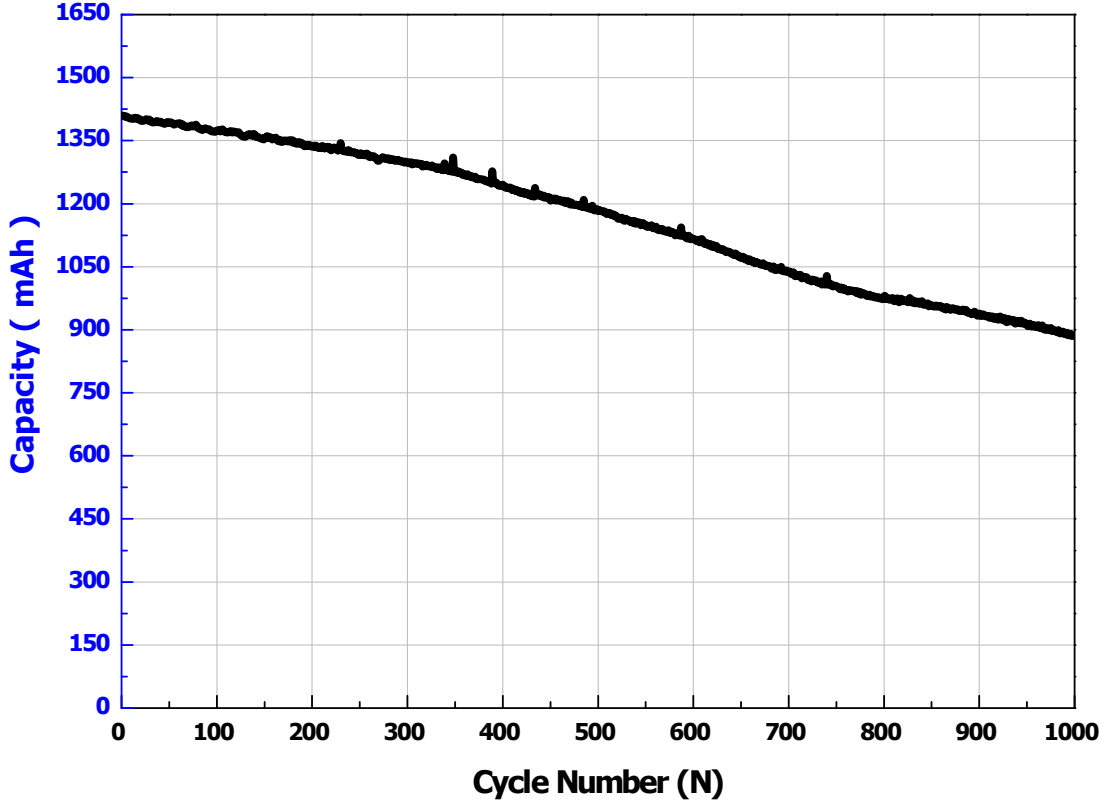


# Cycle Life of HB2

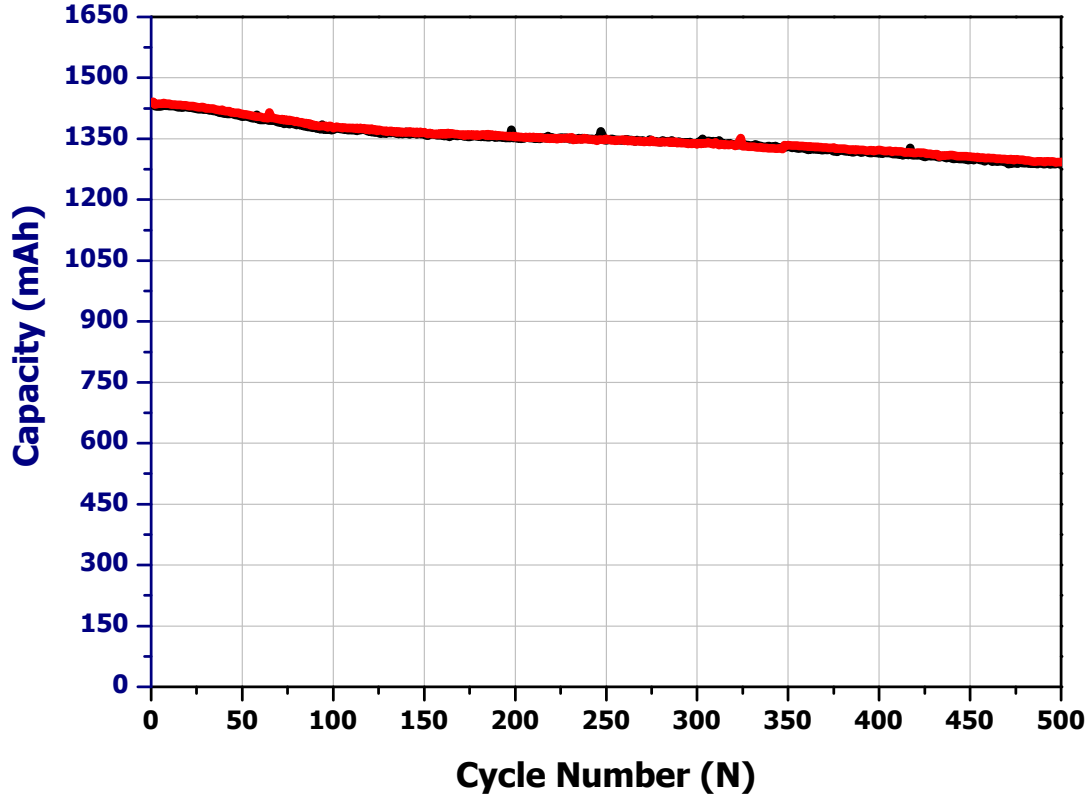
## Test Condition

- Charge (CC/CV): 4A charge to 4.2V, 100mA Cut-off
- Discharge (CC) : 5A/10A discharge, 2.5V Cut-off

5A Cycle



10A Cycle

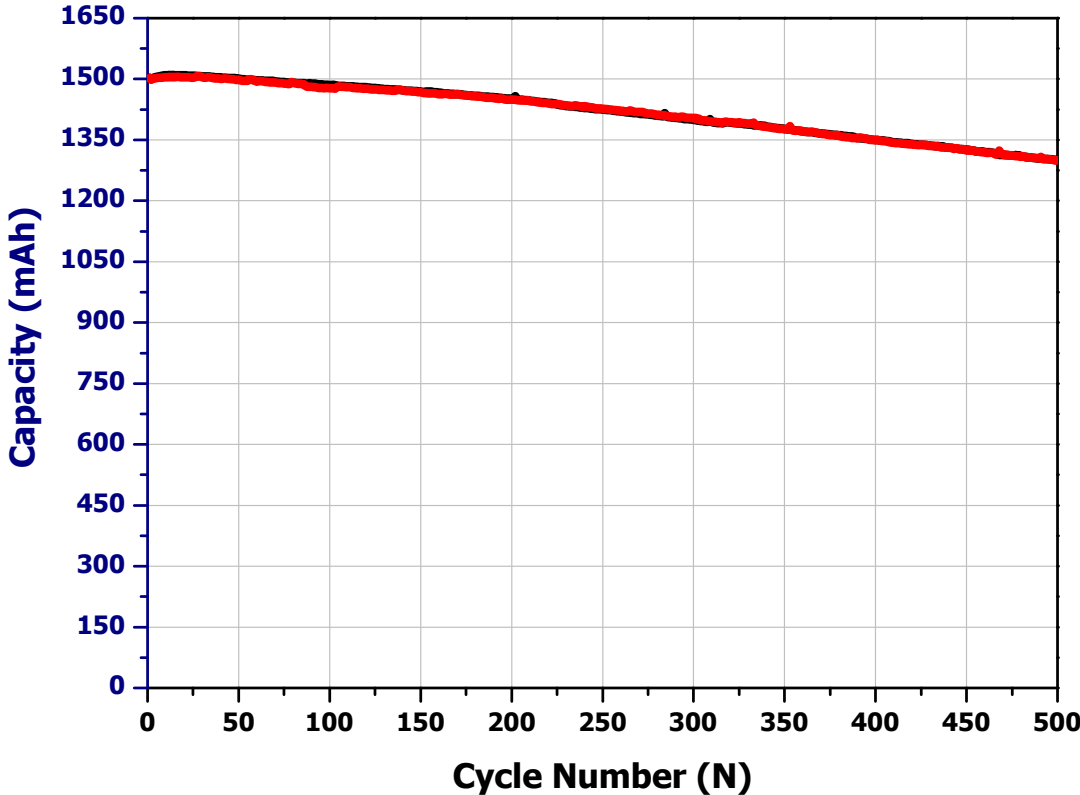


# Cycle Life of HB2

## Test Condition

- Charge (CC/CV): 4A charge to 4.2V, 100mA Cut-off
- Discharge (CC) : 5A/10A discharge, 2.5V Cut-off

20A Cycle



30A Cycle

