



# SPECIFICATIONS

Hobby High Drain Lithium-ion Cell

**NMC20650-31HB**

## Features

- NMC-High-Drain™ Tech
- Ultra High Specific Power
- High Specific Energy
- Ultra Long Cycle Life \*\*
- High Reliability
- High Safety
- Hobby Class

## Applications

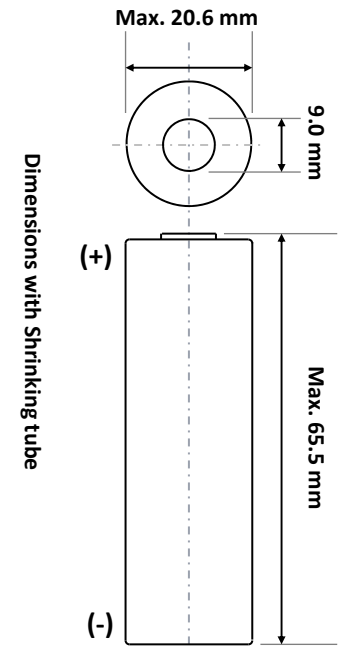
- Vape MODs (up to 250W)
- High Drain Power Tools
- High Drain Garden Tools
- Cordless Vacuum Cleaners
- Home Robots
- RC Model Trucks & Trains
- RC Model Boats

## Specifications\*

<b>Nominal Capacity</b>	Discharge at 25 °C	2.9 Ah (Minimum)
	at 25 °C, 15 A	3.1 Ah (typical)
	at 25 °C, 25 A	3.2 Ah (Typical)
<b>Lifetime Capacity</b>	at 25 °C, 30 A	3.1 Ah (typical)
	Watch chart below	3,600 Ah (Typical) **
<b>Nominal Voltage</b>	Discharge average	3.7 V
<b>Charging</b>	CC/CV, 4.2 V,	1.5 A (Standard)
	52 mA cut-off	4.0 A (Rapid)
<b>Discharging</b>	2.5 V cut-off	30 A (Max. Cont.)
<b>Battery Body Temperature</b>	Charge	0 ~ 45 °C
	Discharge	-20 ~ 60 °C
	Storage	-20 ~ 45 °C
<b>Weight</b>	Average	55.7 g ± 5%

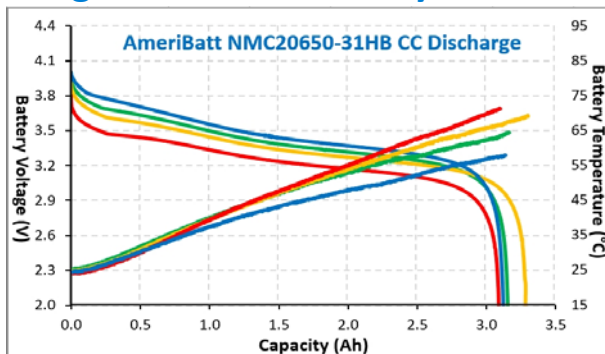
\* All test data are averaging with 5 samples obtained from 3 month inventory.  
 \*\* 2,110 Ah capacity is typically delivered as a power cell; another 1,490 Ah can still be exploited as an energy cell.

## Dimensions



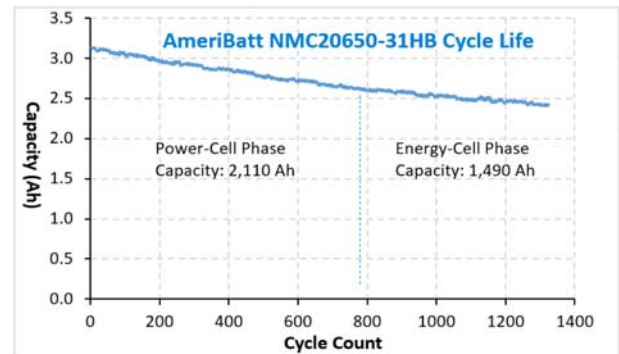
For reference only

## Discharge Characteristics by Current



Charge: CC/CV, 1.5 A/ 4.20 V 62 mA cut-off, Ta = 25 °C  
 Discharge: CC 15A/ 20A/ 25A/ 30A, 2.00 V cut-off, Ta = 25 °C

## Cycle Life Characteristics



Charge: CC/CV, 1.5 A/ 4.20 V 62 mA cut-off, Ta = 25 °C  
 Discharge: CC 25A/ 2.5 V cut-off, Ta = 25 °C

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