

# **Technical Information and Experimental Test Results for LG 18650HG2**

*Testing performed at McMaster University, Hamilton, Ontario, Canada*

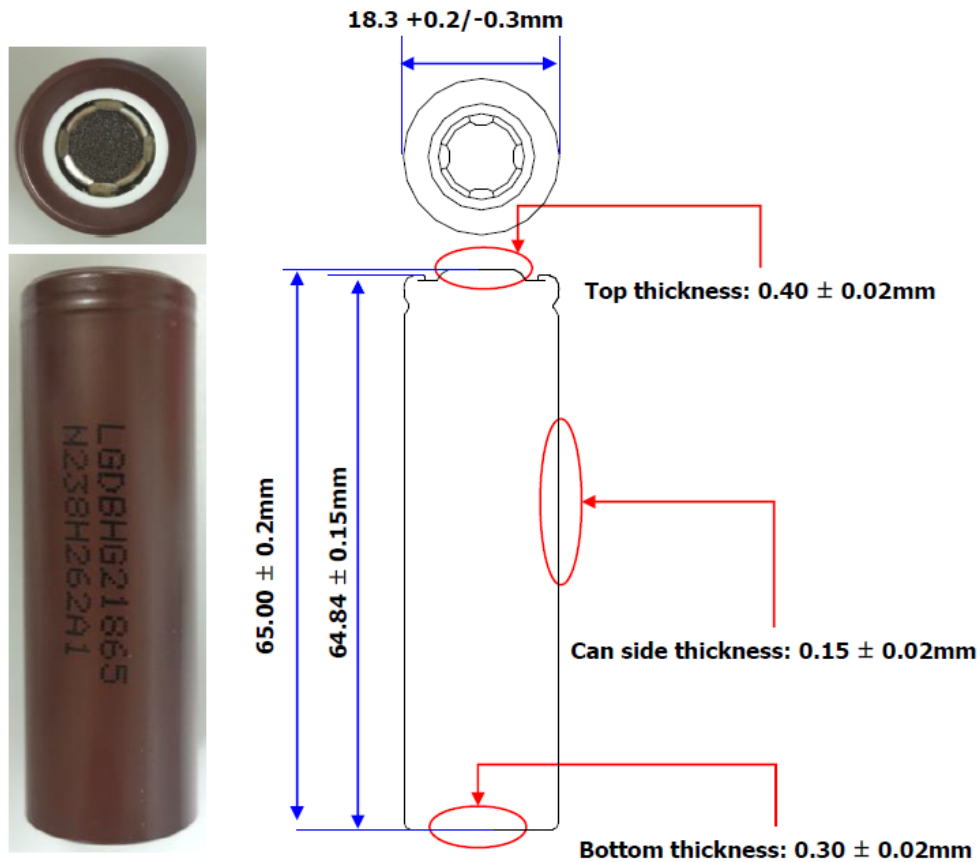
## 1- Battery Main Specifications

<b>Chemistry</b>	<b>Li[NiMnCo]O<sub>2</sub> (H-NMC) / Graphite + SiO</b>
<b>Nominal Voltage</b>	<b>3.6 V</b>
<b>Charge</b>	<b>1.5A,4.2,50mA End-Current (CC-CV) Normal</b>
	<b>4A, 4.2V,100mA End-Current (CC-CV) Fast</b>
<b>Discharge</b>	<b>2V End Voltage, 20A MAX Continuous Current</b>
<b>Nominal Capacity</b>	<b>3.0 Ah</b>
<b>Energy Density</b>	<b>240 (Wh/Kg)</b>

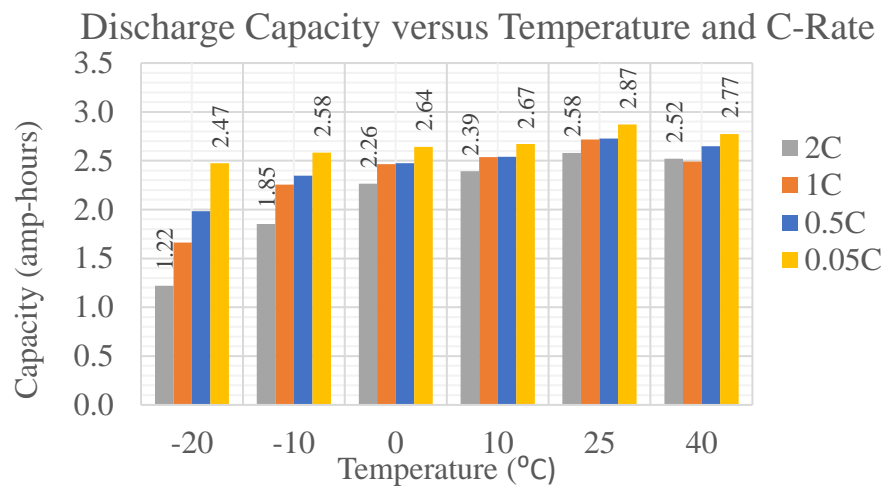
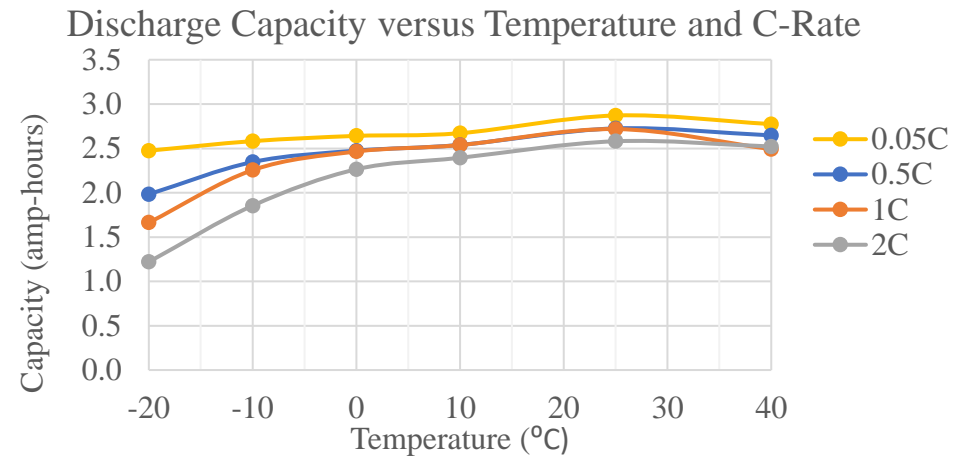
## 2- Battery Dimension

Can material: Steel (Nickel-plated)

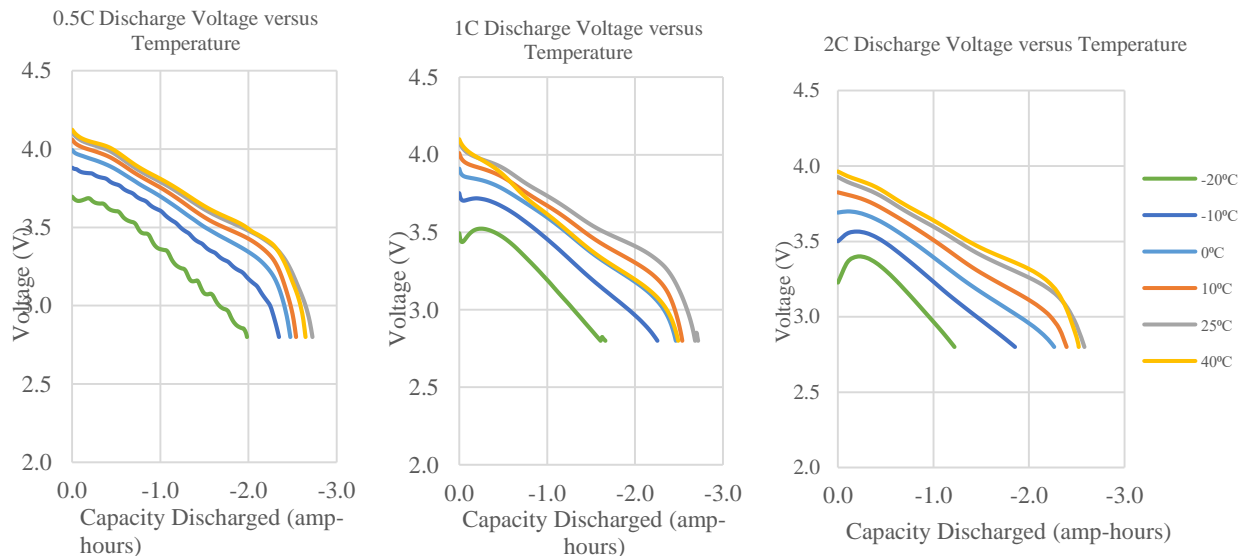
Tube material: Colored PET (t=0.08 ± 0.02 mm)



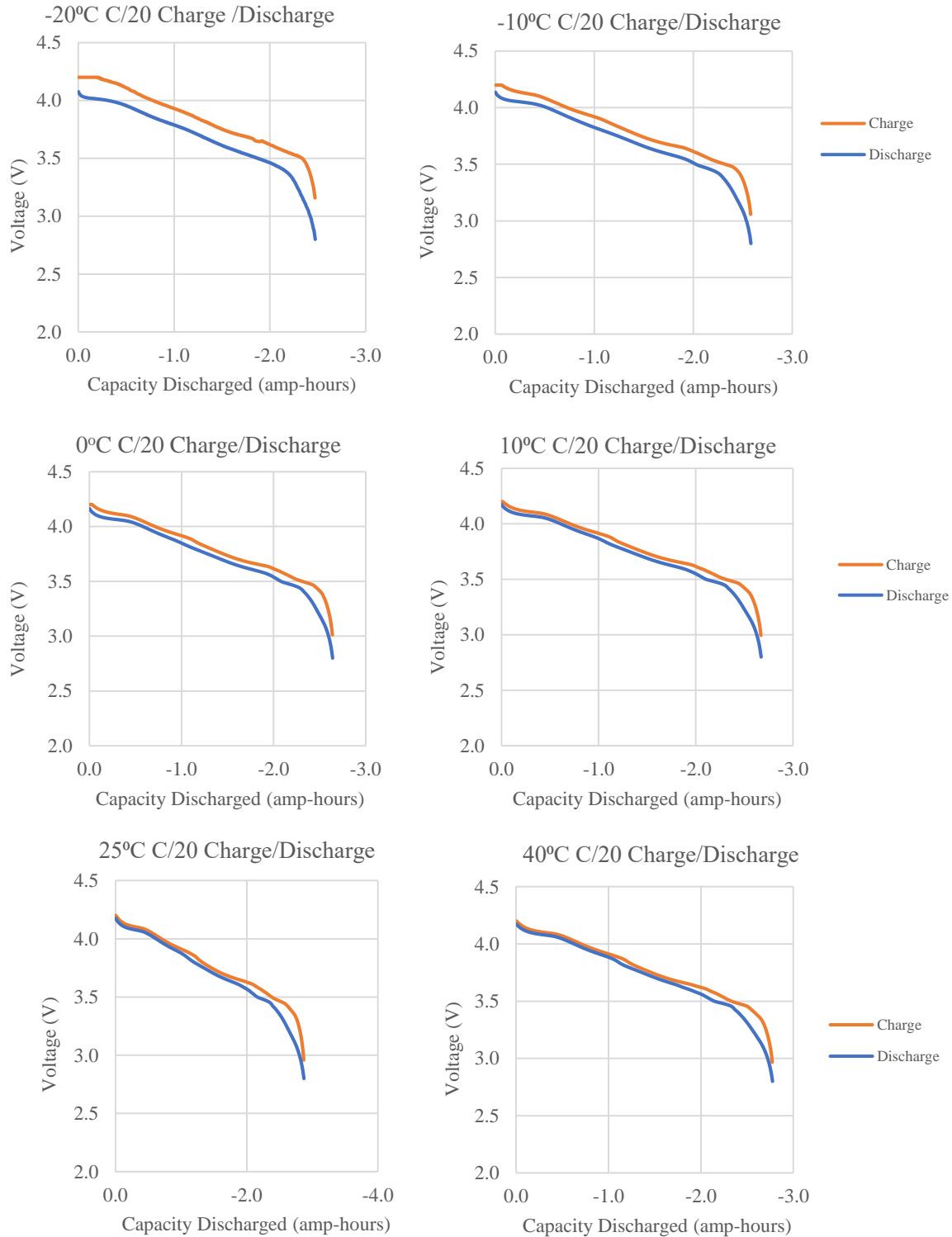
### 3- Discharge Capacity Vs Temperature and different C-Rate



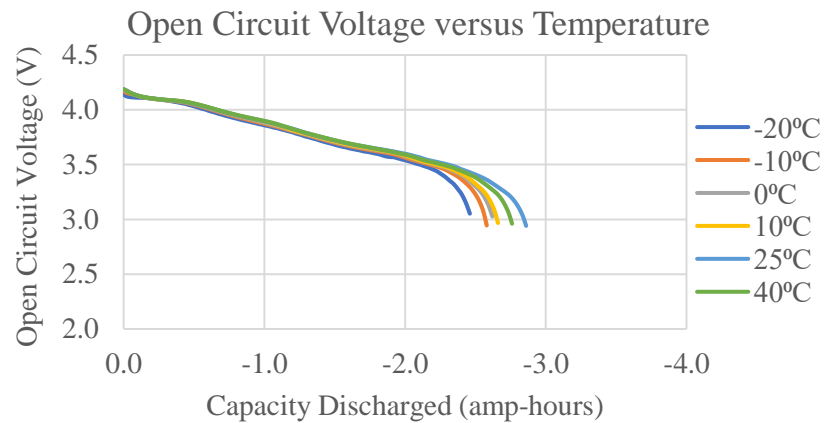
### 4- Discharge Voltage Vs Temperature at different C-Rate



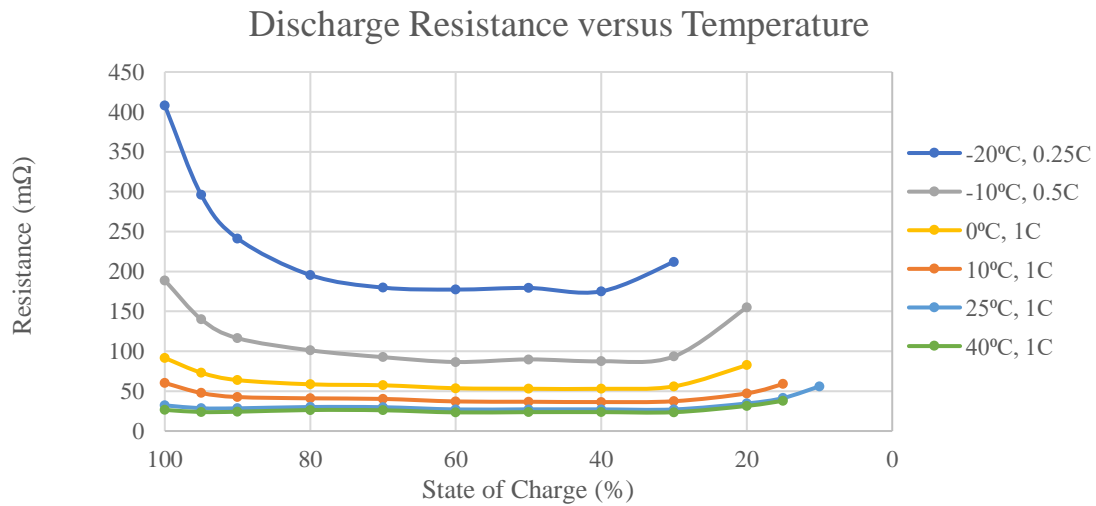
## 5- Charge/Discharge Voltage Vs C-Rate at different Temperatures



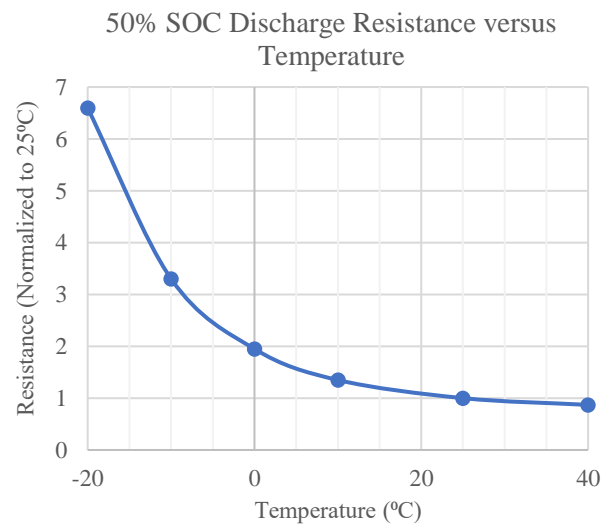
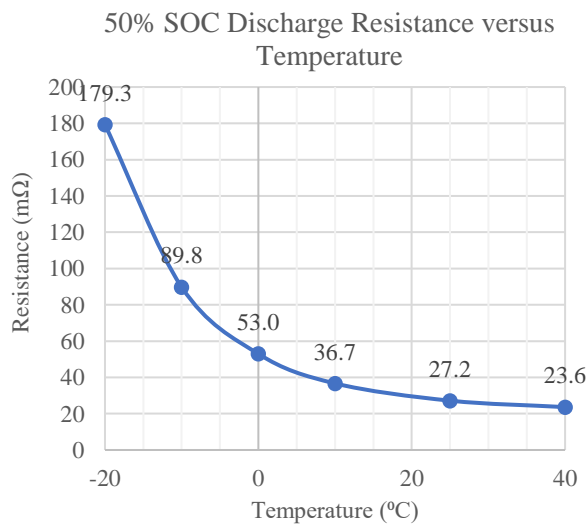
## 6- Open Circuit Voltage Vs Temperature at 0.05 C-Rate



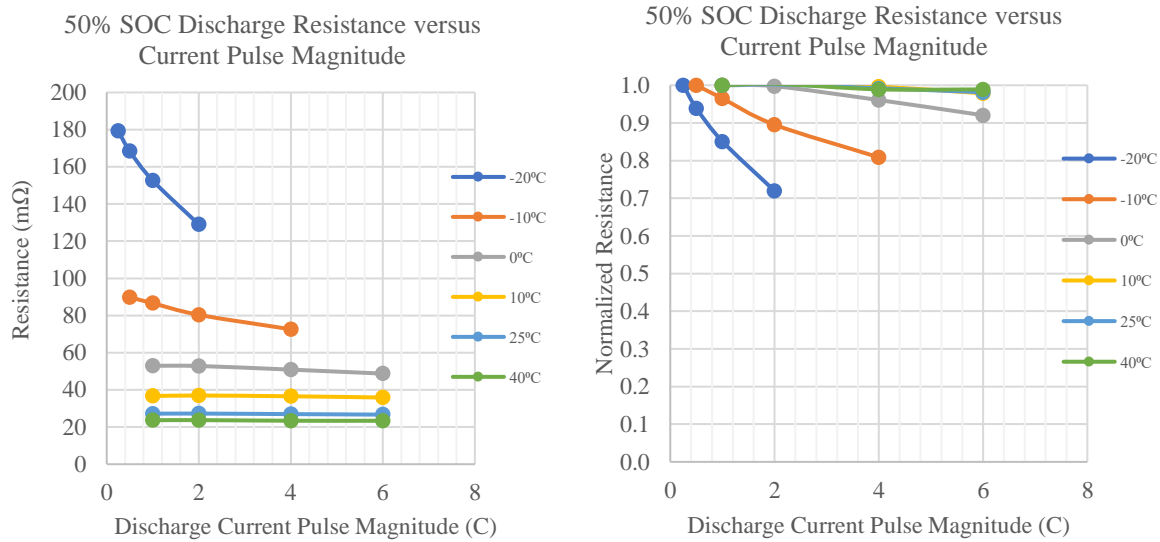
## 7- HPPC Resistance Vs Temperatures at different C-Rates



## 8- HPPC Resistance Vs Temperatures at 50% SOC



## 9- HPPC Resistance Vs C-Rates at 50% SOC



## 10- HPPC Resistance Vs Temperatures at different C-Rate

