

# **Product Information of HD2**

**Dec. 24<sup>th</sup>, 2012**

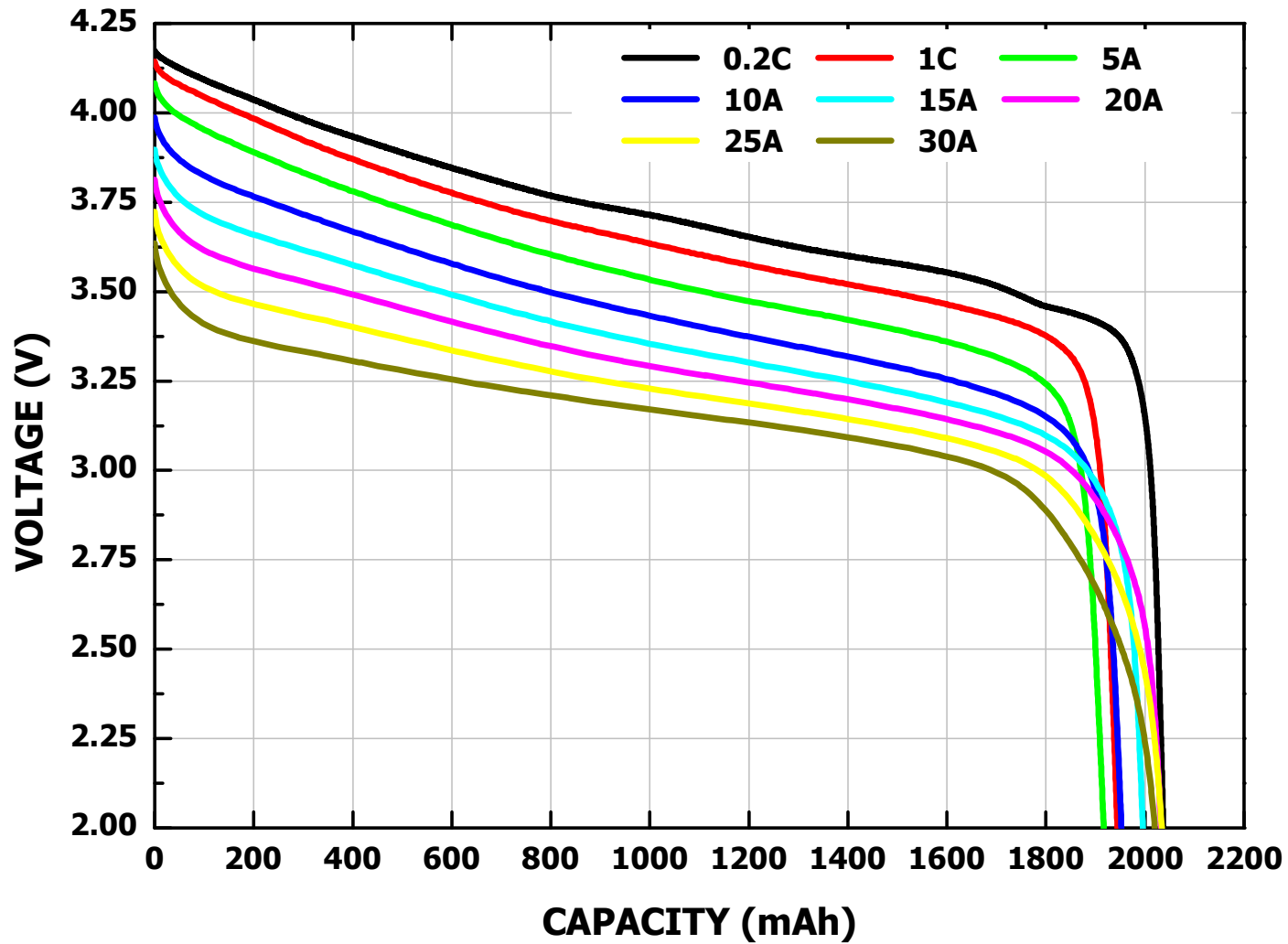
**New Application Cell Team**



# HD2

Type		Specification	Actual
Chemistry		Li[NiMnCo]O <sub>2</sub> (NMC)	
Dimensions (mm)	Diameter	18.3 +0.2/-0.3	18.29
	Height	65.0 ± 0.2	64.97
Weight (g)		Max. 48	Max. 44
Resistance	AC IR (mΩ, 1kHz)	Max. 15	10~12
	DC IR (mΩ)	Max. 30	22~24
Nominal Voltage (V)		3.65	
Charge Method		Nominal : 1A 4.2V, 50mA End-current (CC-CV)	
		Fast : 4A 4.2V, 100mA End-current (CC-CV)	
Charge Time	Nominal (min)	140	
	Fast (min)	50	
Charge Current	Nominal Current (A)	1	
	Max. Current (A)	4	
Performance	Maximum Discharge Current (A)	25	
	Continuous Discharge Current (A)	25	
	(%/Cycles)	70%@500	
Rated Capacity	Nominal (Ah)	2.0 Ah	
Recovery Capacity after Storage (% , 60°C, 1 Month)	SOC 100%	98	
	SOC 50%	100	
	SOC 0%	100	

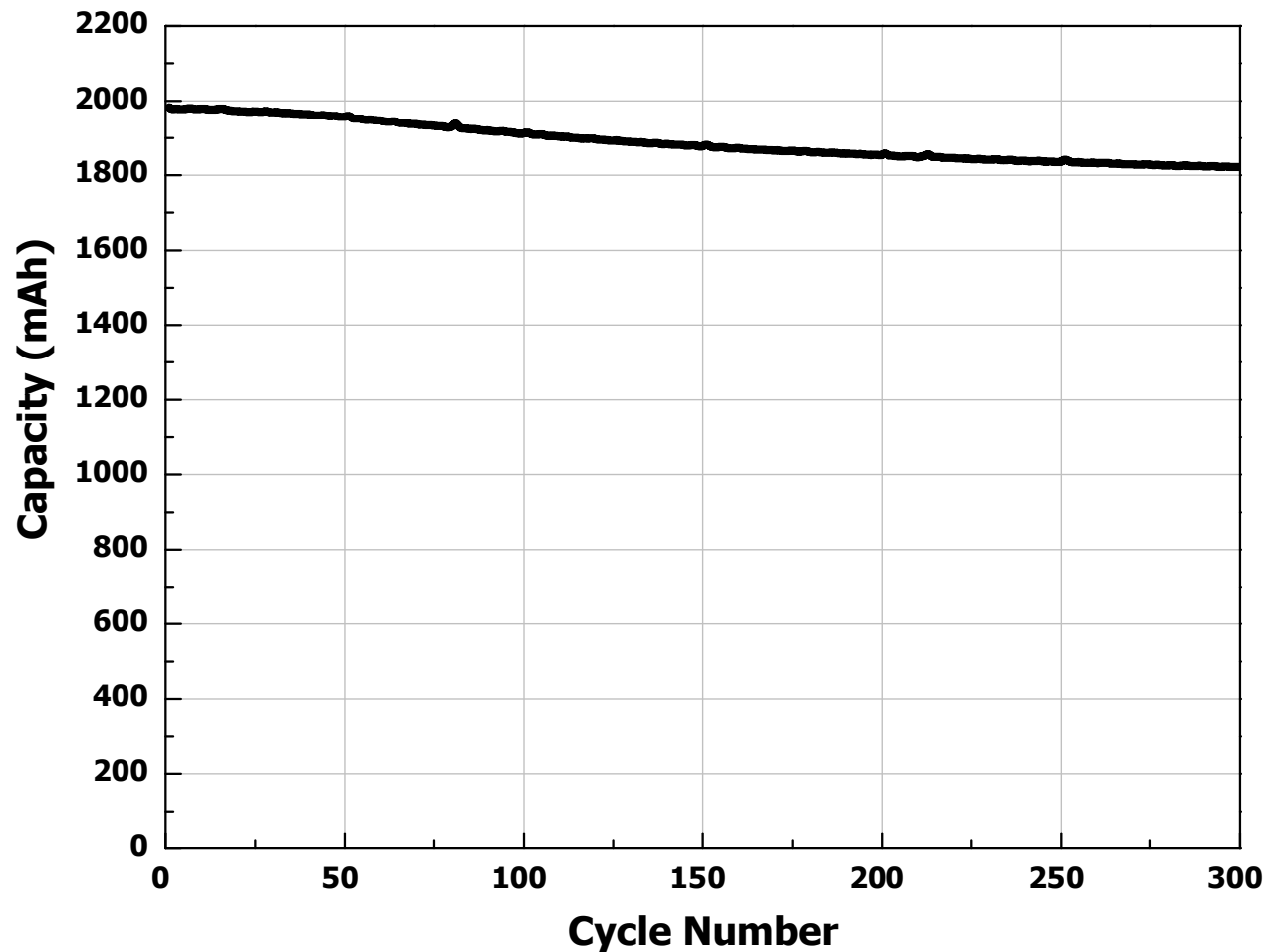
# Discharge Characteristics- Capacity



# 10A Cycle Life (RT)

## Test Condition

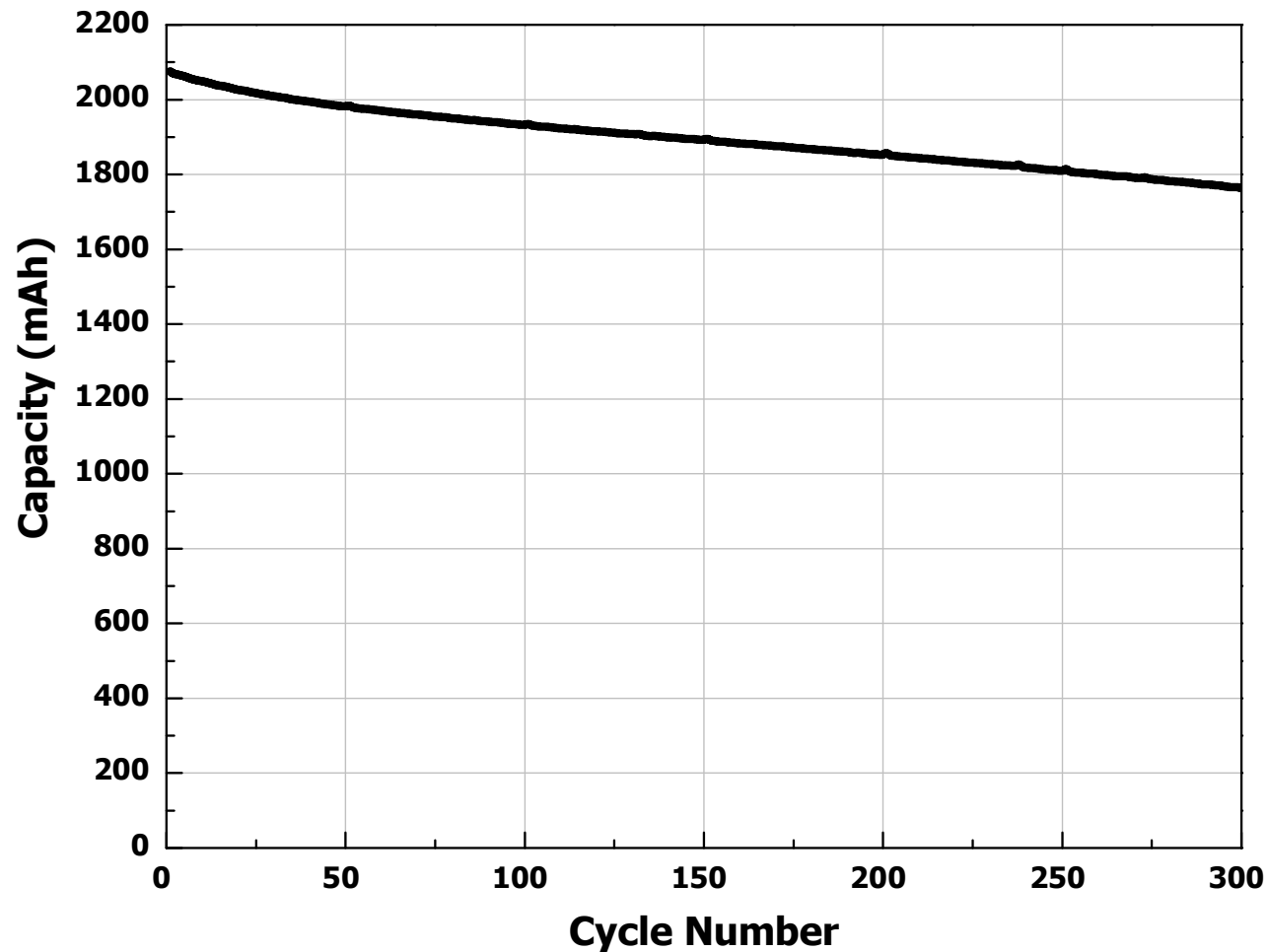
- Charge (CC/CV): 4A charge to 4.2V, 100mA cut-off
- Discharge (CC) : 10A discharge, 2.5V cut-off



# 20A Cycle Life (RT)

## Test Condition

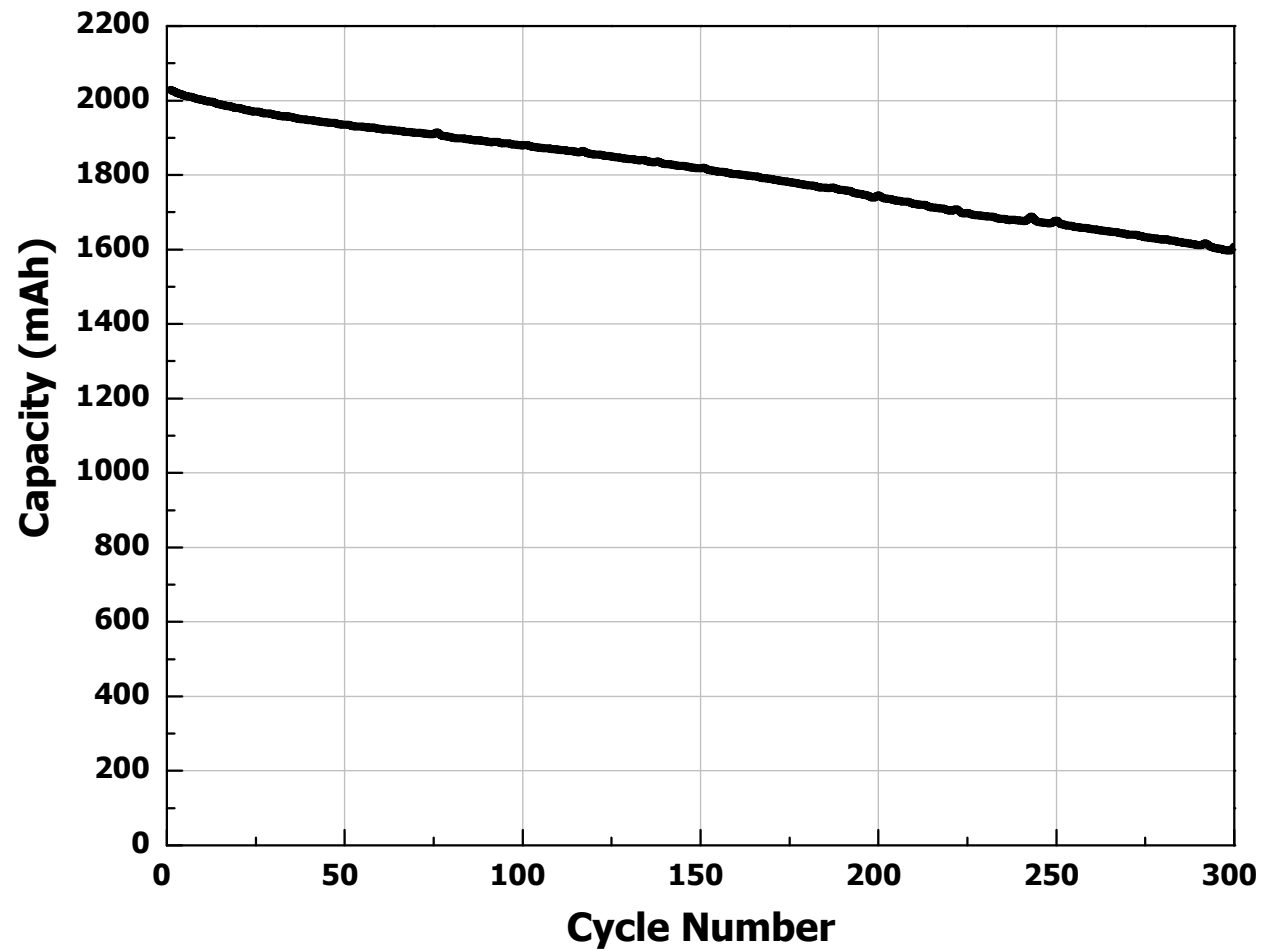
- Charge (CC/CV): 4A charge to 4.2V, 100mA cut-off
- Discharge (CC) : 20A discharge, 2.5V cut-off



# 25A Cycle Life (RT)

## Test Condition

- Charge (CC/CV): 4A charge to 4.2V, 100mA cut-off
- Discharge (CC) : 25A discharge, 2.5V cut-off



# Dimension of HB2

**Can material: Steel (Nickel-plated)**  
**Tube material: Colored PET (t=80 um)**

