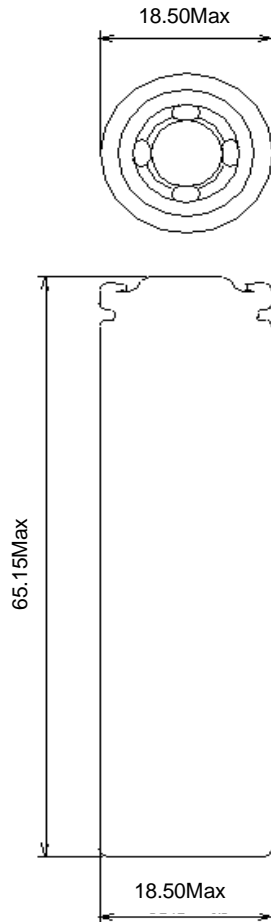


Technical Information of LGC INR18650MH1

Contents

1. General Information
2. Discharge Characteristics
3. Cycle Life
4. Safety

2014. 04. 22

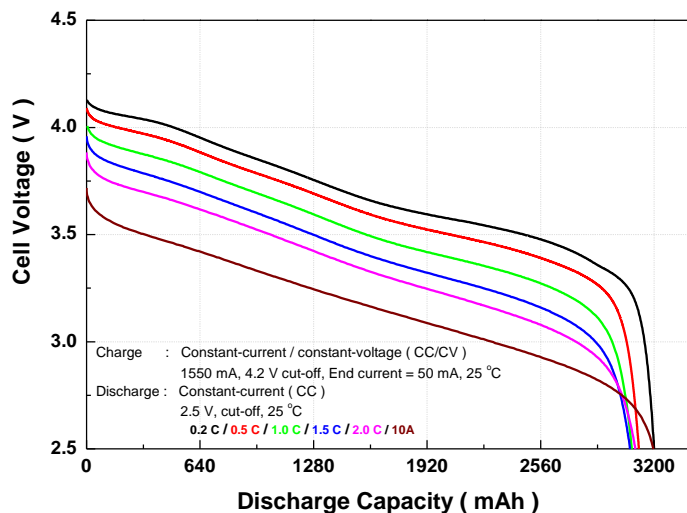


Model INR18650 MH1

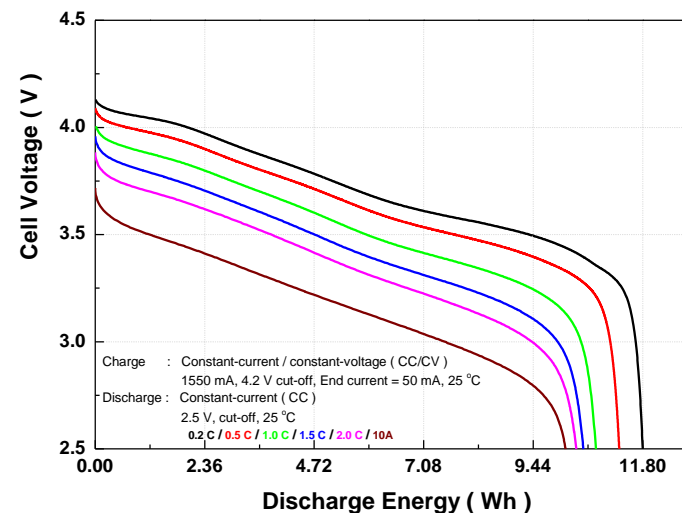
0.2C Capacity *	Nominal	3200 mAh
	Minimum	3100 mAh
Dimensions	Diameter	Max. 18.5 mm
	Height	Max. 65.15 mm
Weight		Max. 49.0 grams
Nominal Voltage		3.67 V
Internal Impedance		≤ 40 mOhm

* **Charge : 1550mA, 4.2V, 50mA End-current (CC-CV)**
Discharge : 620mAh, 2.5V End-voltage (CC)

Discharge Capacity



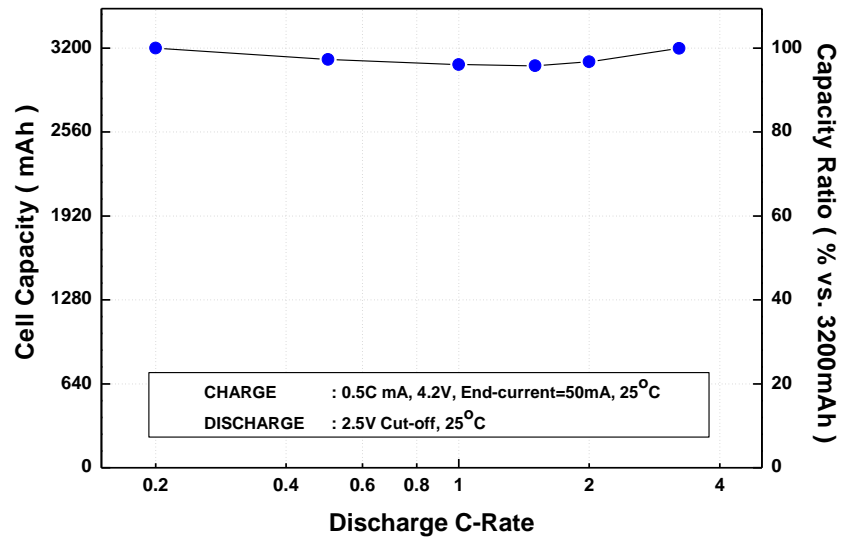
Discharge Energy



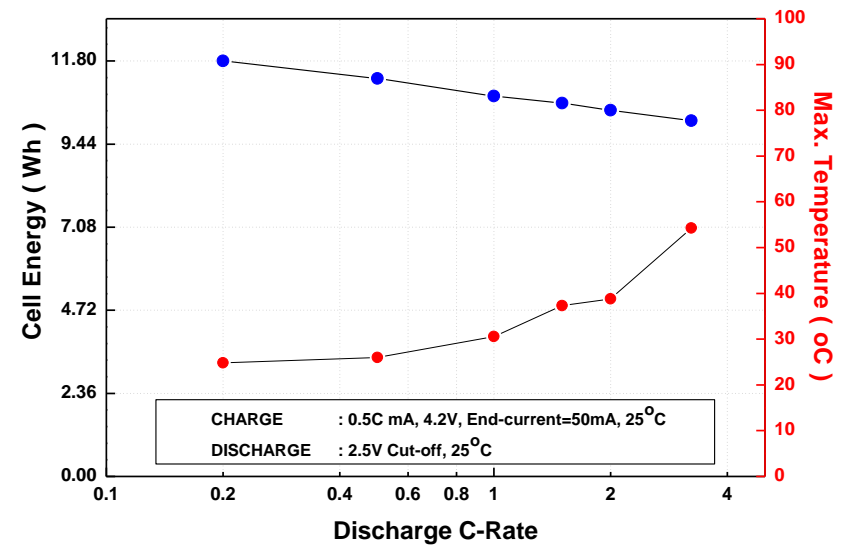
Discharge Rate	Capacity (mAh)	% vs. 0.2C capacity	Energy (Wh)	% vs. 0.2C Energy
0.2 C	3200	100.0	11.8	100.0
0.5 C	3113	97.3	11.3	95.6
1.0 C	3074	96.1	10.8	91.2
1.5 C	3065	95.8	10.6	89.5
2.0 C	3094	96.7	10.4	87.7
10 A	3196	99.9	10.1	85.9

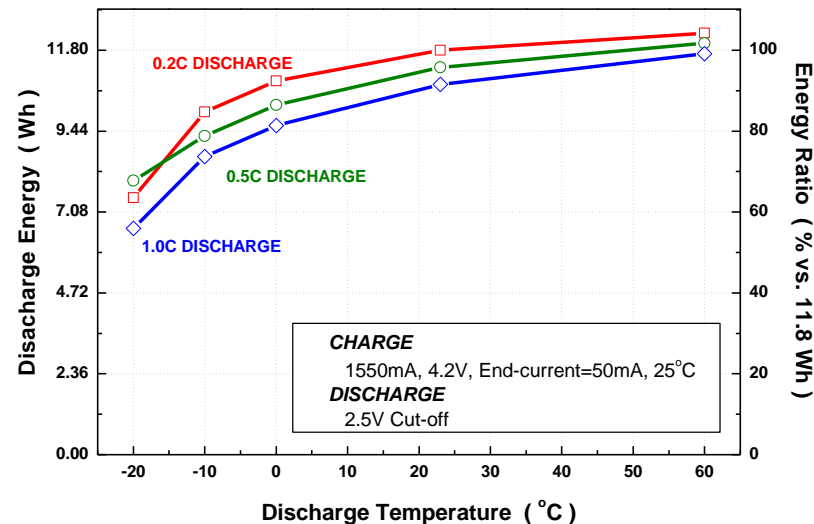
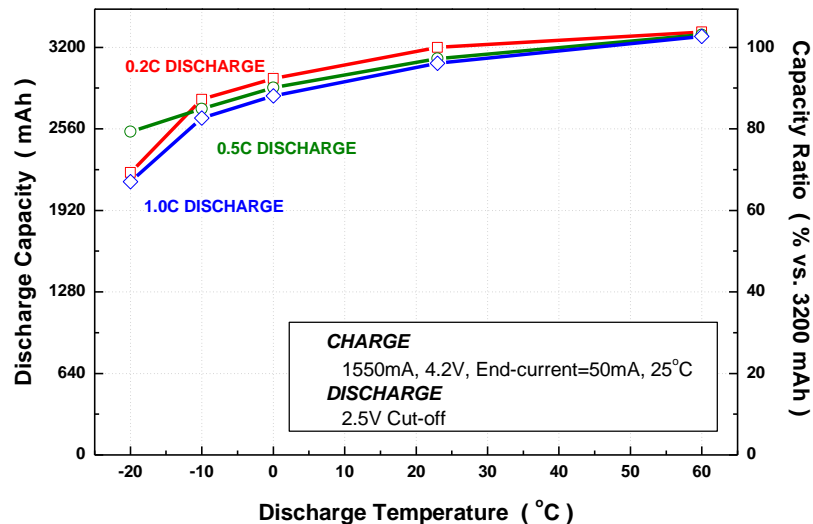
- Charge (CC-CV): 1550 mA, 4.2V, 50mA End-current
- Discharge (CC): Each C-Rate, 2.5V End-voltage

Discharge Capacity



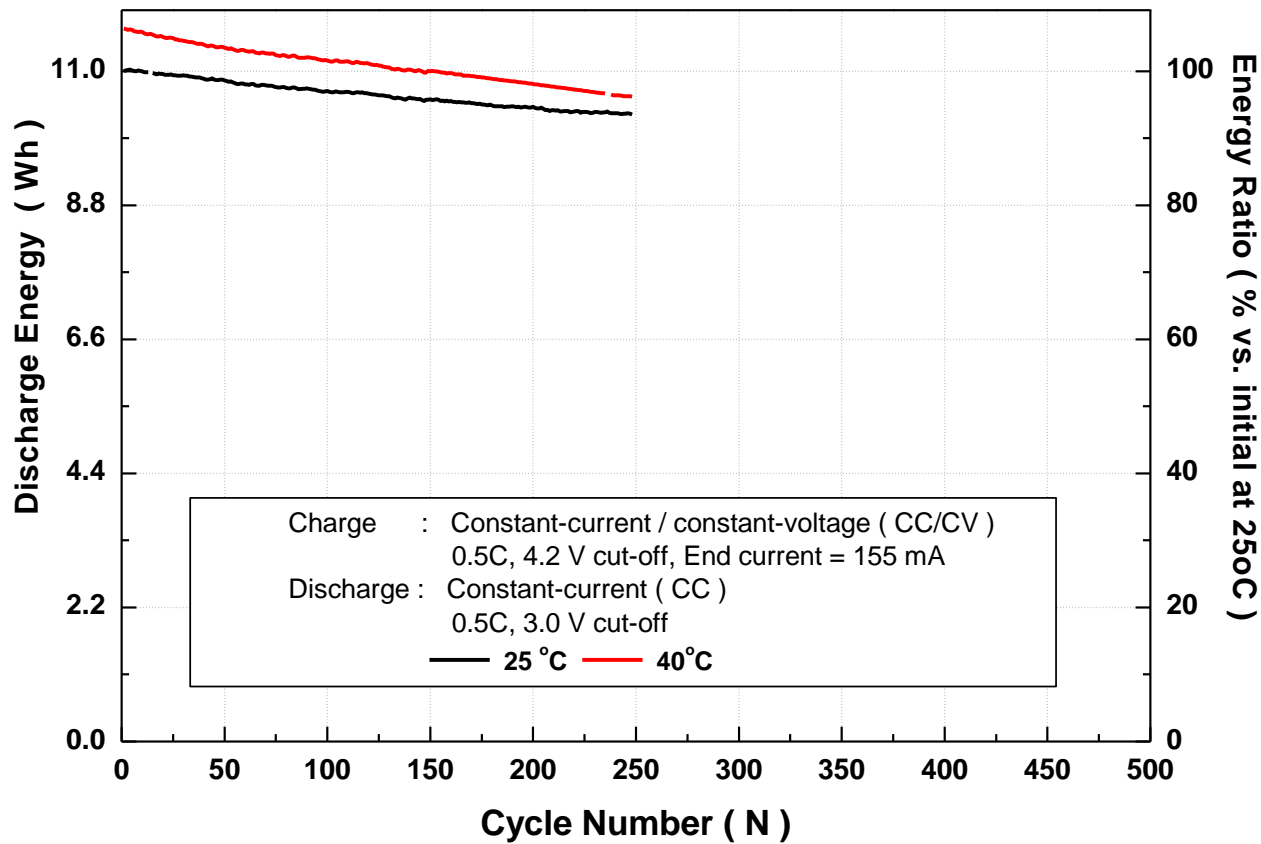
Discharge Energy

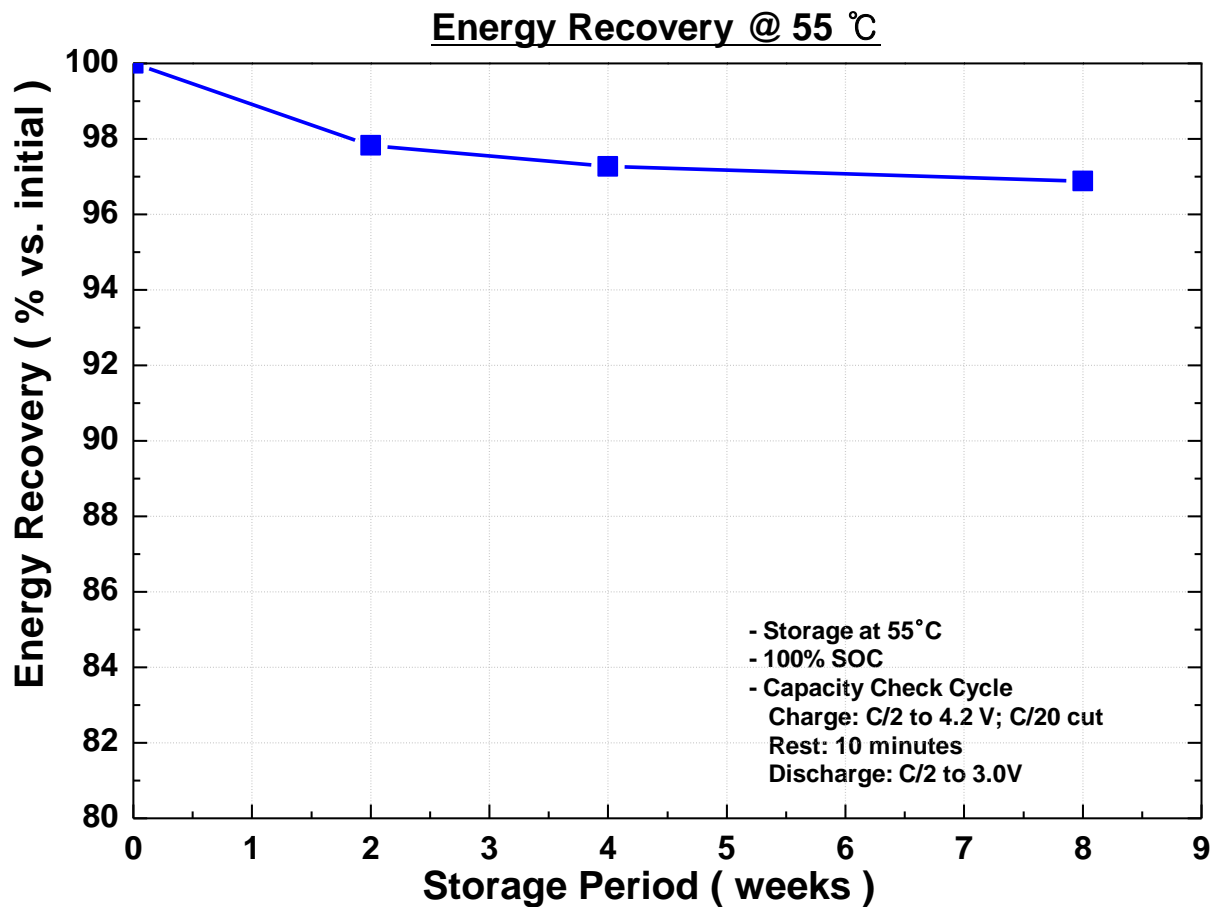




	Discharge Capacity						Discharge Energy					
	0.2C		0.5C		1.0C		0.2C		0.5C		1.0C	
	mAh	%	mAh	%	mAh	%	Wh	%	Wh	%	Wh	%
-20°C	2217	69.3	2539	79.4	2146	67.1	7.5	63.2	8.0	67.5	6.6	56.1
-10°C	2791	87.2	2716	84.9	2644	82.6	10.0	85.1	9.3	78.9	8.7	73.7
0°C	2955	92.4	2884	90.1	2819	88.1	10.9	92.1	10.2	86.8	9.6	81.6
23°C	3200	100.0	3113	97.3	3074	96.1	11.8	100.0	11.3	95.6	10.8	91.2
60°C	3321	103.8	3299	103.1	3287	102.7	12.3	104.4	12.0	101.8	11.7	99.1

- Charge (CC-CV): 1550 mA, 4.2V, 50mA End-current
- Discharge (CC): Each C-Rate, 2.5V End-voltage





ITEMS	TEST METHOD		Fail/ trial	RESULT
	CONDITION	CHARGE VOLTAGE		
IMPACT	UL 1642	4.2V	0/3	PASS
CRUSH	UL 1642	4.2V	0/3	PASS
HOT BOX	UL 1642	4.2V	0/3	PASS
OVERCHARGE	UL 1642	4.2 V -> 6V	0/3	PASS
EXTERNAL SHORT CIRCUIT	UL 1642	4.2V	0/3	PASS
THERMAL SHOCK	UN-DOT	4.2V	0/3	PASS