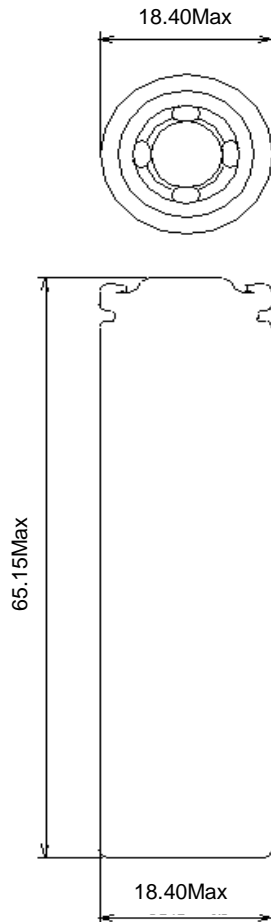


Technical Information of LGC INR18650F1L

Contents

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

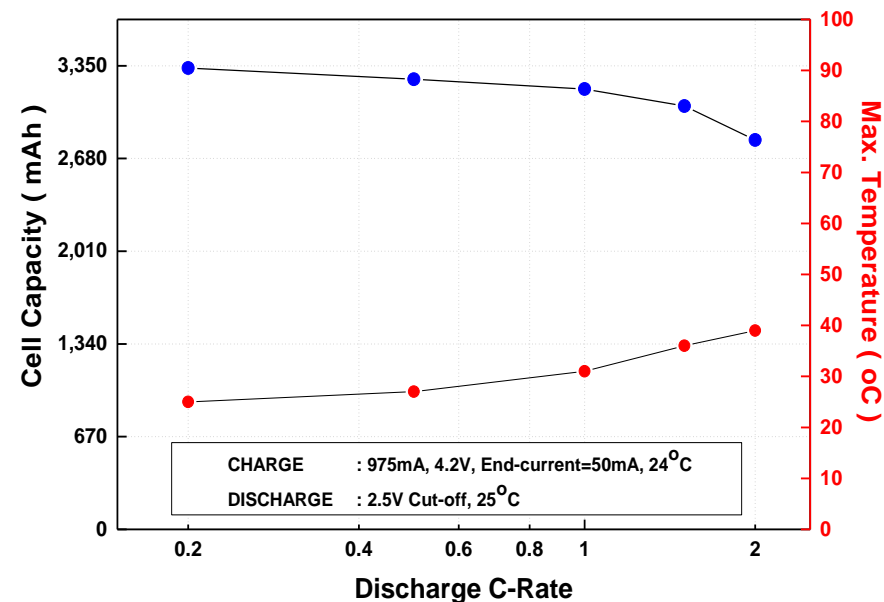
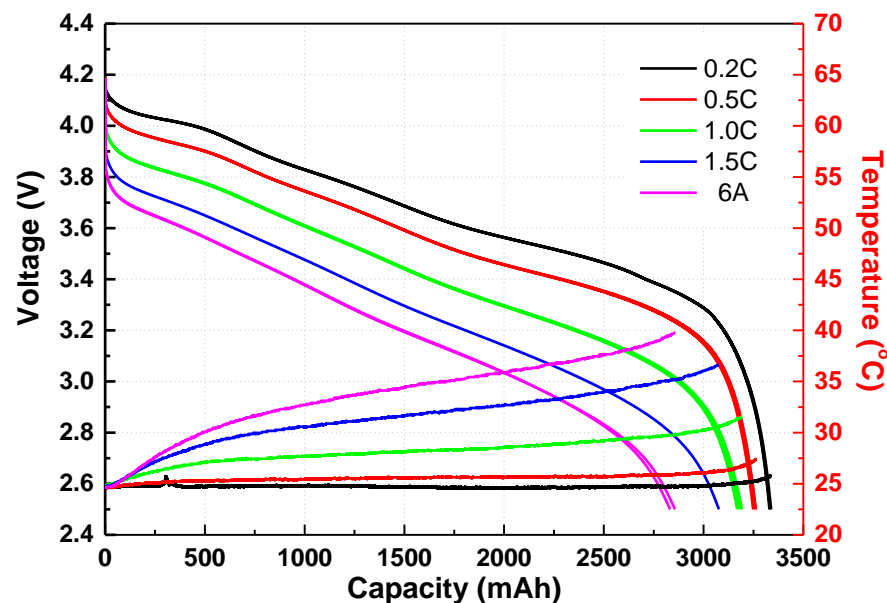
2015. 05. 11



Model INR18650 F1L

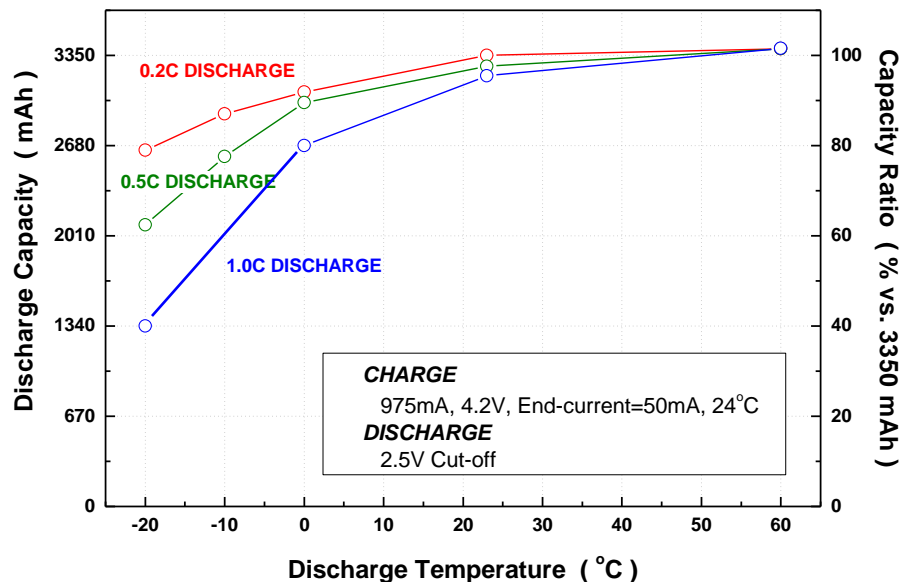
0.2C Capacity *	Nominal	3350 mAh
	Minimum	3250 mAh
Dimensions	Diameter	Max. 18.4 mm
	Height	Max. 65.15 mm
Weight		Max. 49.0 grams
Nominal Voltage		3.63 V
Internal Impedance		≤ 70 mOhm

* **Charge : 975mA, 4.2V, 50mA End-current (CC-CV)**
Discharge : 650mAh, 2.5V End-voltage (CC)



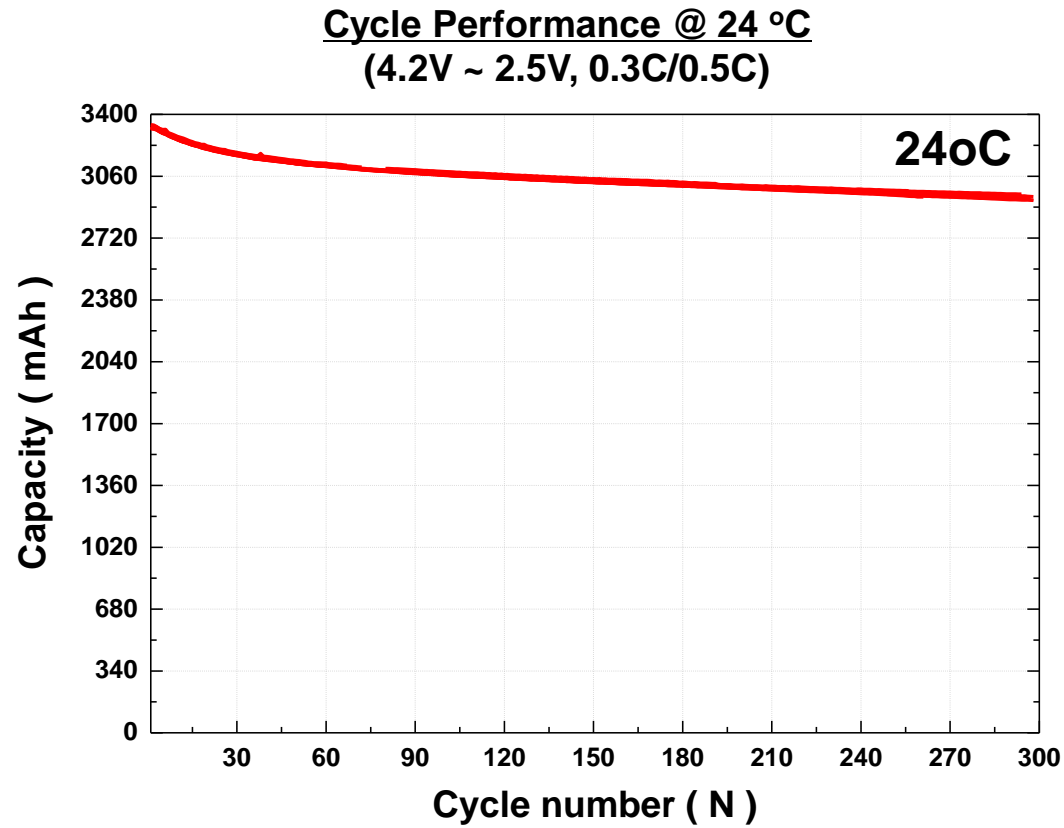
C-rate	Discharge rate characteristics		
	mAh	% vs. 0.2C Capacity	Max. Temp.
0.2C	3350	100.0	25 °C
0.5C	3269	97.6	27 °C
1C	3197	95.4	31 °C
1.5C	3074	91.8	36 °C
6A	2828	84.4	39 °C

- Charge (CC-CV): 975mA, 4.2V, 50mA End-current
- Discharge (CC): Each C-Rate, 2.5V End-voltage



Temp. Vs C-rate	Discharge rate characteristics (Capacity)					
	0.2C		0.5C		1.0C	
	mAh	%	mAh	%	mAh	%
-20°C	2646.5	79.0	2090.4	62.4	1340.0	40.0
-10°C	2914.5	87.0	2599.6	77.6	-	-
0°C	3078.7	91.9	2998.3	89.5	2680.0	80.0
24°C	3350.0	100.0	3269.0	97.6	3197.0	95.4
60°C	3400.3	101.5	3400.3	101.5	3403.6	101.6

- Charge (CC-CV): 975mA, 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	0/5	PASS
CRUSH	UL 1642	4.2V	0/5	PASS
HOT BOX	UL 1642	4.2V	0/5	PASS
OVERCHARGE	UL 1642	4.2 V -> 18.5V	0/5	PASS
EXTERNAL SHORT CIRCUIT	UL 1642	4.2V	0/5	PASS
THERMAL SHOCK	UN-DOT	4.2V	0/5	PASS