ML18650-2200

Li-ion 18650-2200 mAh Battery



www.marvel-tech.ca
info@marvel-battery.com

marvel® Tech

ML18650-2200

Li-ion 18650-2200 mAh Battery

Specification :

NO.	Item	Specifications
1	Typical Capacity	2230mAh @ 0.2C Discharge (0.2C)
	Minimum capacity	2200mAh @ 0.2C Discharge (0.2C)
2	Nominal voltage	3.7V
3	Standard Charge	CC/CV,0.2C5A, 4.20V
4	Standard Discharge	CC,0.2C5A, 3.00V
5	End-of-charge Voltage	4.20V±0.05V
6	End-of-charge Current	0.02C5A（At CV mode）
7	End-of-discharge Voltage	3.00 V
8	Charging Time	8.0hours（standard charge）8
9	Quick Charge Current	2200mA（1.0C5rate）1C
10	Quick Discharge Current	4400mA（2.0C5rate）2C
11	Max Discharge Current	6600mA（3.0C5rate）3C
12	Initial Impedance	Max:55mΩ
13	Weight	Approx：43±2g
14	Operating temperature	Charging：0℃~45℃ Discharging：-20℃~60℃
15	Storage temperature	-5℃~35℃
16	Storage Humidity	≤75% RH
17	Appearance	Without scratch, distortion, contamination and leakage
18	Standard environmental condition	Temperature ：25±2℃ Humidity：45-75%RH Atmospheric Pressure：86-106 KPA
19	Temperature Dependence of Discharge Capacity	

Charge temperature	Discharge temperature				
25℃	-10℃	0℃	15℃	25℃	40℃

www.marvel-tech.ca
info@marvel-battery.com

Relative Capacity

50%	80%	90%	100%

General Performance

No.	Item	Test Methods and Condition	Criteria
1	0.2C Capacity	After standard charging, rest battery for 10min, then discharging at 0.2C to voltage 3.0V, recording the discharging time.	⩾300min
2	Cycle Life	Constant current 0.5C charge to 4.2V, then constant voltage charge to current declines to 0.01C, rest 10min， constant current 0.5C discharge to 3.0V， rest 10min. Repeat above steps till continuously discharging capacity Higher than 80% of the Initial Capacities of the Cells	⩾300 times
3	Capability of keeping electricity	20±5℃, After standard charging, rest the battery 28days, discharging at 0.2C to voltage 3.0V, recording the discharging time.	⩾240min

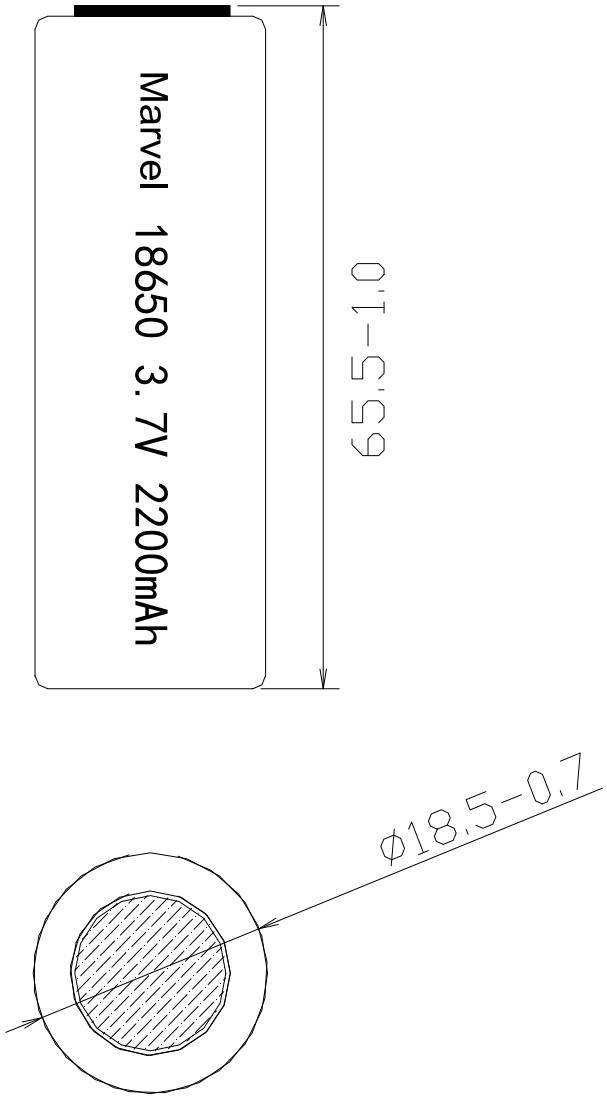
Environment Performance

No.	Item	Test Methods and Condition	Criteria
1	Discharge at high temperature	After standard charging, rest the cells 4h at 60 ± 2 ℃, then discharging at 1C to voltage 3.0V, recording the discharging time.	⩾54min
2	Discharge at low temperature	After standard charging, rest the cells for 16h at -20±2℃, then discharging at 0.2C to voltage 3.0V, recording the discharging time.	⩾210min
3	Thermal shock	Put the cells in the oven. The temperature of the oven is to be raised at 5±2℃ per minute to a temperature of 130±2℃ and	No fire, no smoke

ML18650C-2200

Li-ion 18650C-2200 mAh Battery

Products assembly drawing and size refers to picture 1



www.marvel-tech.ca
info@marvel-battery.com