

3.7V Cylindrical li-ion battery 14250 3.7V 300mAh

1) Specification Sheet:

No	Item	Rated Performance		Remark
		Typical	300mAh	
1	Rated Capacity	Minimum	300mAh	Discharge at 0.2C after standard charge fully.
2	Nominal Voltage	3.7V		Mean operation voltage during standard discharge.
3	Voltage at end of Discharge	3.0V		Discharge cut-off voltage.
4	Charging Voltage	4.2±0.03V		
5	AC (1KHz) Impedance New Cell Max.(mΩ)	≤250mΩ		
6	Standard Charge	Constant Current 0.5C Constant Voltage 4.2V Cut-off current 0.01C		Charge time: Approx 4.0h.
7	Standard Discharge	Constant current 0.2 C end voltage 3.0V		
8	Fast Charge	Constant Current 1C Constant Voltage 4.2V Cut-off current 0.01C		Charge time: Approx 2.5h.
9	Fast Discharge	Constant current 1 C end voltage 3.0V		
10	Maximum Continuous Charge Current	1.0C		0.30A
11	Maximum Continuous Discharge Current	1.5C		0.45A
12	Operation Temperature Range	Charge: 0~45C		60±25%RH. Bare Cell.
		Discharge: -20~60C		
13	Storage Temperature Range	Less than 1 year: -20~25C		
		Less than 3 months: -20~40C		
		Less than 1 months: -30~45C		
		Less than 12 hour: 45~60C		
14	Storage Humidity Range	60±25%RH.		
15	Weight	Approx: 30g		Whole product
16	Product Dimension	Diameter: Max. 14.2mm		Initial dimension
		Height: Max. 25.5mm		
17	Package	Standard International transportation package, based on UN3480 PI965[RLI] Lithium Ion Cells/Batteries ONLY		

2) Electric features:

No	Item	Type value	Unit
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1	Over charge detection voltage	4.28±0.03	V
2	Over charge detection delay time	80-200ms	
3	Over charge release voltage	4.08±0.03	V
4	Over discharge detection voltage	3.0±0.08	V
5	Over discharge detection delay time	20-60ms	V
6	Over discharge release voltage	3.0±0.25	V
7	Over current detection voltage	150±30mv	V
8	Over current protection current	1.8±0.5A	A
9	Over current detection delay time	10-20ms	
10	Cycle life	≤500 times(≥70% 0.5C)	

Catalogue of cylindrical cells					
No.	Model.	Nominal Capacity	Nominal Voltage	Diameter	Height
		(mAh)	(V)	(mm)	(mm)
1	10180	100	3.7	10	18
2	10200	120	3.7	10	20
3	10220	150	3.7	10	22
4	10440	300	3.7	10	44
5	14250	300	3.7	14	23.5
6	14430	650	3.7	14	43
7	14500	750	3.7	14	49
8	14500	800	3.7	14	49
9	15226	350	3.7	15	22.6
10	16340	650	3.7	16	34
11	17360	700	3.7	17	36
12	17650	1500	3.7	17	65
13	18500	1400	3.7	18	49
14	18500	1500	3.7	18	49
15	18650	2000	3.7	18	65
16	18650	2200	3.7	18.2	65
17	18650	2400	3.7	18.3	65
18	18650	2600	3.7	18.3	65
19	18650	2800	3.7	18.3	65
20	25500	3000	3.7	25	50
21	26650	4000	3.7	26	65
22	32600	4800	3.7	32	60
23	32600	5000	3.7	32	60