

File No.:	CB-WIA-002	
Doc No.:	VIA21700/40-1S1P-01	
Version:	1.0	
Sheet:	1/5	

Specification Approval Sheet

Customer Name: _ Customer Model:					
	•		1700		
Capacity:		4000mAh 2024/01/15			
	Date	LULHI	01/10		
Prepared by	Checked b		рy	Α	Approved by
Customer Approved	Test b	у	Check	ed by	Approved by
(Stamp)					



File No.:	CB-WIA-002	
Doc No.:	VIA21700/40-1S1P-01	
Version:	1.0	
Sheet:	2/5	

Amendment Records

Revision	Description	Prepared By	Approved By	Date
A/0	First Publish			2024/01/15



File No.:	CB-WIA-002	
Doc No.:	VIA21700/40-1S1P-01	
Version:	1.0	
Sheet:	3/5	

Content

1、Scope	4
2、Model	4
2、Reference Standard	4
3、Cell Specification	4
4. Product Endurance	5



File No.:	CB-WIA-002	
Doc No.:	VIA21700/40-1S1P-01	
Version:	1.0	
Sheet:	4/5	

1. Scope

This specification defines the technical requirements for Lithium ion battery.

2. Model

Cell Model INR21700 4000

3. Reference Standard

GB/T 18287、GB/T31241、UL1642 、IEC61960、IEC62133

4. Cell Specification

No.	Item	General Parameter	Remark
1.	Typical capacity	4000mAh	0.5C charge CCCV 80mA 0.2C discharge for cut-off 2.5V
2	Minimum Capacity	3955mAh	0.5C charge 0.2C discharge for cut-off
3	Nominal Voltage	3.7V	0.5C charge 0.2C discharge for cut-off
4	Internal Impedance	≤12mΩ	AC Impedance (at 1000Hz, 30%SOC)
5	Single battery weight	≤ 68 g	
6	Limited charge current	4.20V±0.05V	
7	Cut-off Voltage	2.5 V	
8	Standard charge current	2000mA	0.5C
9	Max charge current	6000mA	1.5C
10	Max Continuous discharging current	40000mA	10C With 75°C temperature cut
11	Max. Pulse Discharge Current	80000mA	20C 2s pulse
12	Operating Temperature (surface temperature)	0°C < T≤50°C	Charge



File No.:	CB-WIA-002	
Doc No.:	VIA21700/40-1S1P-01	
Version:	1.0	
Sheet:	5/5	

		0℃ <t≤50℃< th=""><th>Charge</th></t≤50℃<>	Charge
		-20°C <t≤75°C</t≤	Discharge
13	Storage Temperature	-20℃~45℃	3 months 3
13		-20℃~25℃	1 year
		Height ≤70.4mm	Standard Height of
	Cell Dimension	≈70. 4 ππ1	battery (include PET)
14		Diameter ≤21.3mm	Standard Diameter of battery (include PET)

4. Product Endurance

No.	Items	Test Method and Condition	Criteria
1	Standard charge	Charge to 4.2V at constant current 0.5C (2A), then constant voltage charge to taper current 80mA	The cell shall be charge at 25±3℃ and 45%-85%RH
2	Discharge	After standard charge, the cell shall be discharge till the voltage discharge to 2.5V by 0.2C (800mA)	The cell shall be discharge at 25±3℃
3	Cycle Life 25±3°C	Charge: 4A CCCV to4.2V by 0.08A cut-off, rest 10min. Discharge: 20A to 2.5V or 75℃ cut off, rest 30min Repeat the procedures 300 cycles	ResidueCapacity≥80%
4	Discharge rate capabilities	Standard charged then rest for 30mins and discharge at 0.8A/2A/20A/30A/40A to the discharge cut-off voltage 2,5V, then rest for 30mins. Charge/discharge cycle can be conducted for 3 times before meeting the Standards the same below	0.8A≥3955mAh 2A≥3920mAh 20A≥3850mAh 30A≥3800mAh 40A≥3750mAh