
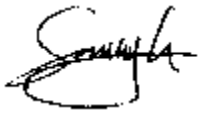
			Title		
			Lithium ion Rechargeable Cell Specification (SPB58253172V2)		
	RESPONSIBLE	DATE	SIZE	DOCUMENT NO.	REV
AUTHORS	SH LEE	May.31.2021	A4	CE09-5020	00
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RELEASE			MANUAL CHANGE PROHIBITED		SHEET 1 OF 3

Lithium ion Rechargeable Cell Specification

SPB58253172V2, 3.75V, 21.0Ah

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TITLE	SIZE	DOCUMENT NO.	REV
Simplified Specification (SPB58253172V2)	A4	CE09-5020	00
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1. Descriptions

1.1 Description

Rechargeable Lithium ion Rechargeable Cell

1.2 Model

SPB58253172V2

2. Nominal specification

Item	Specification	
2.1 Nominal Capacity	21.0Ah (0.5C discharge)	
2.2 Energy density	Volumetric	312Wh/L
	Gravimetric	164Wh/Kg
2.3 Nominal Voltage	3.75V	
2.4 Operating Voltage Range	3.00V ~ 4.20V	
2.5 Standard	Charge Current	10.5A (0.5C)
	Discharge Current	10.5A (0.5C)
2.6 Maximum*	Charge Current	63.0A (3.0C)
	Discharge Current	105.0A (5.0C)
	Peak Discharge	147.0A (7.0C) ($\leq 10\text{sec}$, $\geq \text{SOC}50\%$)
2.7 Operating Temperature	Charge	0°C ~ 55°C
	Discharge	-20°C ~ 55°C
	Recommend	25 \pm 3°C
2.8 Storage Temperature	0°C ~ 25°	$\leq 1\text{Year}$
	0°C ~ 45°C	$\leq 3\text{Month}$
	-20°C ~ 55°C	$\leq 1\text{Month}$
2.9 Storage Humidity	45 ~ 85%RH	
2.10 Cell size	Thickness	5.8 +0.2/-0.4mm (Initial fully charged Cell)
	Width	253.0 \pm 1.0mm
	Length	172.0 \pm 1.0mm
2.11 AC Impedance	Max. 2.0m Ω	
2.12 Weight	Max. 480.0g	

* Maximum Current is not for the continuous cycle condition, only check the cell performance.

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3. Mechanical Drawings

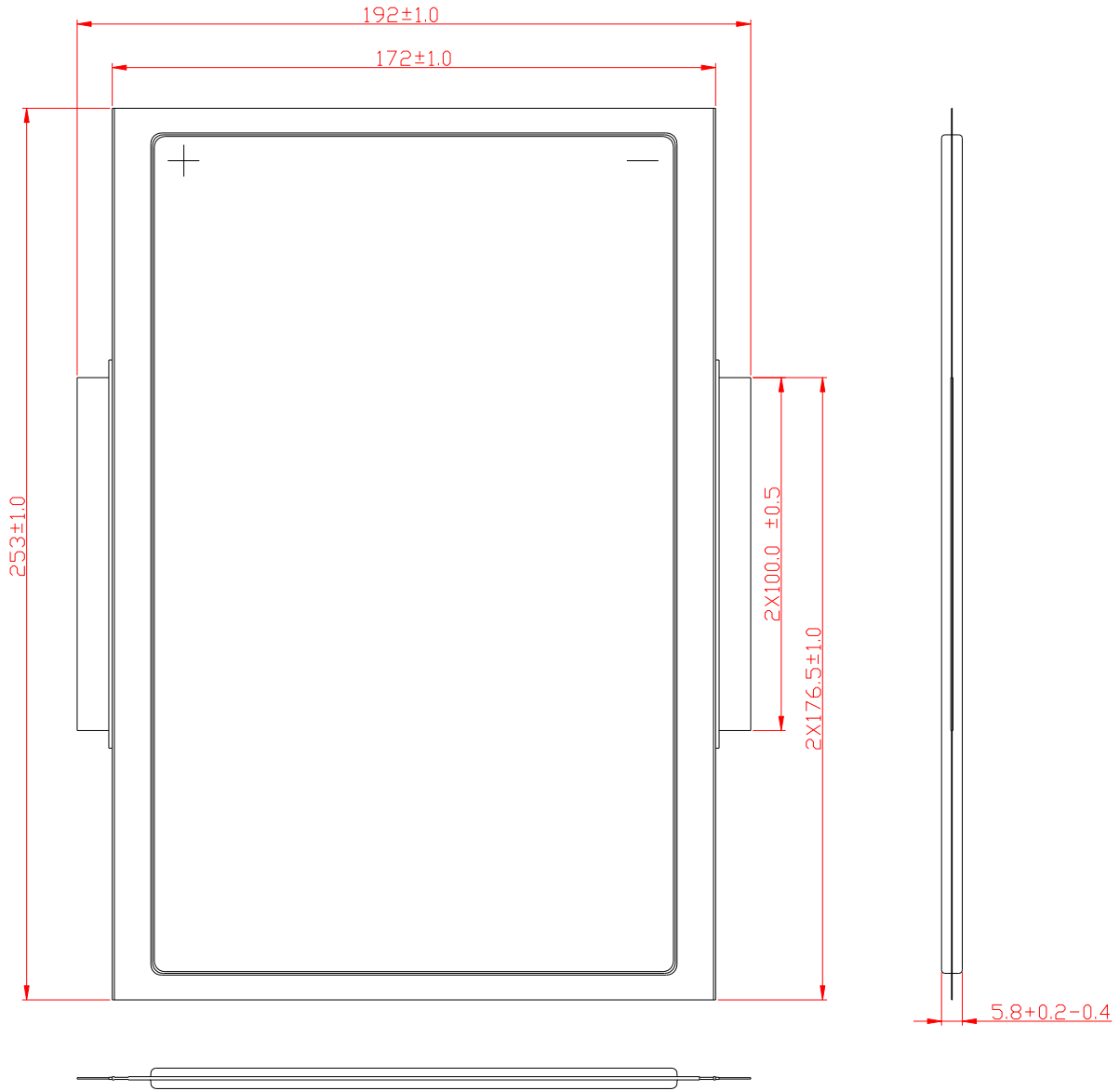


Figure 1 Lithium ion Rechargeable Cell Outline Drawing