



**CERRO POWER** SHENZHEN CERRO POWER COMPANY LTD

# SPECIFICATION

LITHIUM MANGANESE DIOXIDE BUTTON CELL

**CR2430FV-LF**

LITHIUM MANGANESE DIOXIDE CR2430 BUTTON CELL

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## SHENZHEN CERRO POWER COMPANY LTD

Add: Room4D, Luhua Building, Guangxia Road, Futian District, Shenzhen, China 518109

[www.cerropower.com](http://www.cerropower.com) Email: [sales@cerropower.com](mailto:sales@cerropower.com) ; cinda@126.com

Tel: 86- 135 1082 7543 ; 86-755-8311 9966 Fax: +86-755-8311 998

CERRO POWER reserve the right to modify product specification without prior notice

(Information in the document is just for reference, not for guarantee of battery performance)

This specification applies to the following 3.0v lithium button cell CR2430 made by SHENZHEN CERRO POWER COMPANY LTD.

## 2. [RATINGS]

TABLE I :

ITEM		UNIT	SPECIFICATIONS	CONDITIONS
Nominal voltage		V	3.0	Standard discharge
Nominal capacity		mAh	275	Standard discharge
Instantaneous short-circuit current		mA	$\geq 350$	Time $\leq 0.5$ second
Off-load voltage		V	$\geq 3.20$	Unit cell
Storage temperature		$^{\circ}\text{C}$	0-35	
Standard weight		g	4.5	Unit cell
Service output	Initial	h	255	Continuous discharge with load $3\text{ k}\Omega$ , till 2.0v end-voltage at $20-25^{\circ}\text{C}$
	After 12 months storage	h	250	

TABLE II :

ITEM	CONDITIONS	CHARACTERISTICS
Self-discharge rate	Stored for 12 months at normal temperature, then continuously discharged with $15\text{ k}\Omega$ load till 2.0v end-voltage	Less than $\leq 2\%$

## 3. [PERFORMANCE AND TEST METHODS]

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature,  $20^{\circ}\text{C}-25^{\circ}\text{C}$ ; environmental humidity,  $65 \pm 20\%$ .

## 4. [SUGGESTIONS AND CAUTIONS]

4.1 Install batteries correctly

4.2 Ensure the contact points to be clean and conductive

4.3 Do not mix different types, different brands batteries to serve together

4.4 Do not heat, recharge the batteries

4.5 Do not dispose of the batteries in fire

4.6 Keep away from the small children, if swallow promptly see doctor

4.7 Pay attention to the producing date

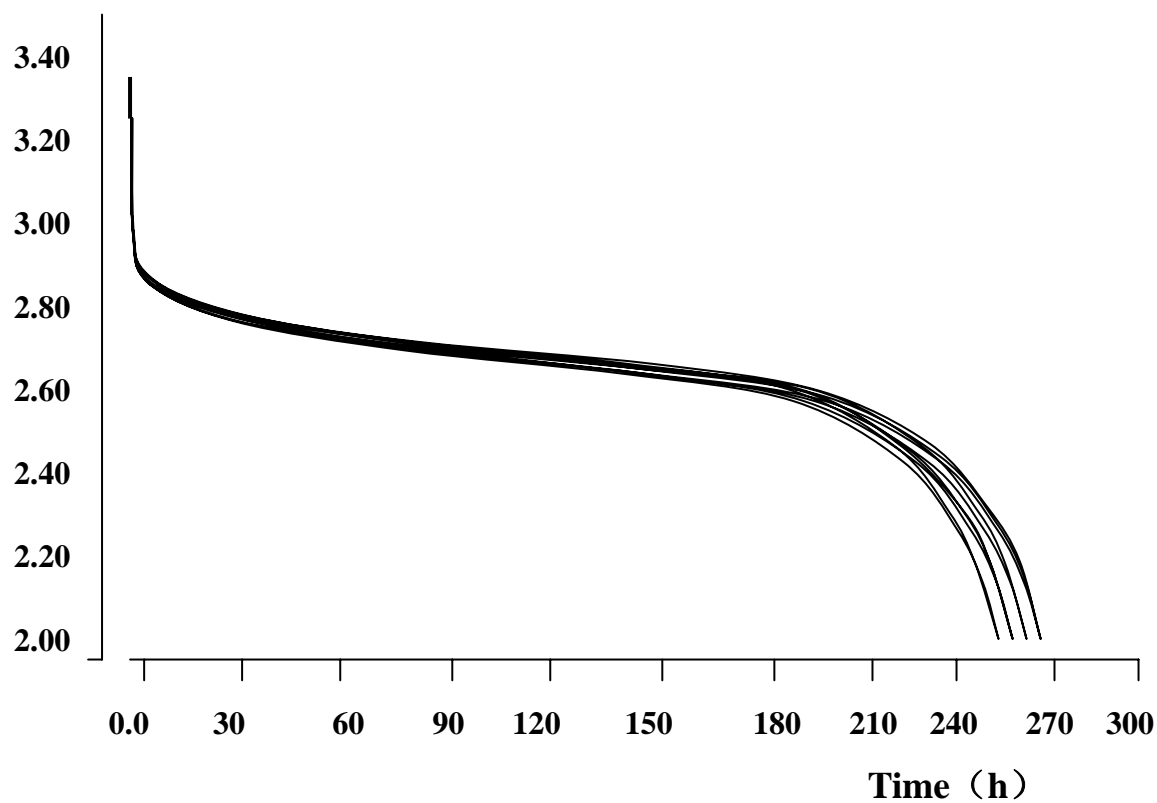
**TABLE III:**

<b>NO</b>	<b>ITEM</b>	<b>TEST METHODS</b>	<b>STANDARD</b>	
<b>1</b>	<b>Dimensions</b>	Using vernier caliper (accuracy $\geq 0.02$ ) while avoiding short-circuit	Diameter	24.0(-0.15)mm
			Height	3.00(-0.20)mm
<b>2</b>	<b>Off-load voltage</b>	Using multimeter (accuracy $\geq 0.25\%$ ) internal resistance $\geq 1M\Omega$	$\geq 3.20V$	
<b>3</b>	<b>Instantaneous Short-circuit current</b>	Time of short-circuit should be less than 0.5 Second and avoid repeated test within half An hour	$\geq 350mA$	
<b>4</b>	<b>Appearance</b>	Eyeballing	Bright , clean, no rust, no leakage, and no flaw	
<b>5</b>	<b>Capacity</b>	Continuously discharge for 8 hour with load $3k\Omega$ , temperature at 20-25°C, humidity at $65 \pm 20\%$ till 2.0V end-voltage (for fresh battery only: within 3 months)	$\geq 255h$	
<b>6</b>	<b>Vibration test</b>	Put battery on the platform of the vibrations Machine, start the machine and adjust the frequency form 10 times per minute to 15 times per minute. keep it running for an hour	Characteristics keep stability	
<b>7</b>	<b>Leakage at high temperature</b>	Stored under temperature(45°C)for 30 days	Leakage rate $\leq 0.5\%$	
<b>8</b>	<b>Over Discharge Test</b>	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage allowed	

## 5. [DISCHARGE CHARACTERISTICS]

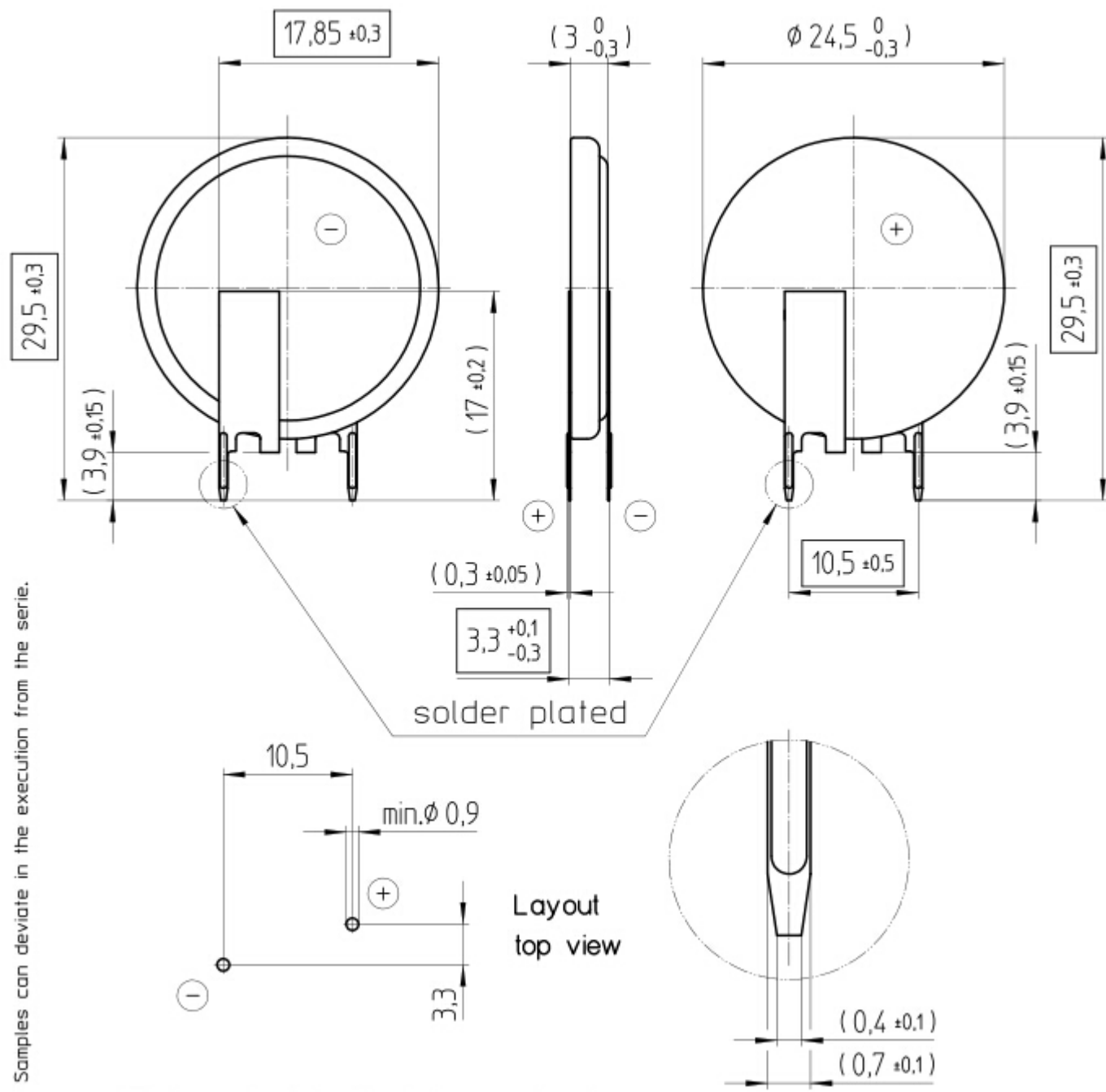
With load 3.0 kΩ (CR2430)

Voltage (V)



**(NEXT DRAWING)**

- Samples can deviate in the execution from the serie.



Tab material: Stainless steel

- Dimensions and tolerances can be specified only after the testing of the devices for the mass production definitely