

# Power-Xtra CR2032 - 3V Lithium Li-MnO2 Battery - 5 pcs/blister

# SPECIFICATIONS OF SINGLE CELL

Type Li-Mn02 Buton with 5 pcs/blister

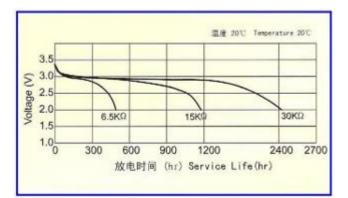
Stock 900.600.503.244

Model CR2032, CR-2032, CR2032

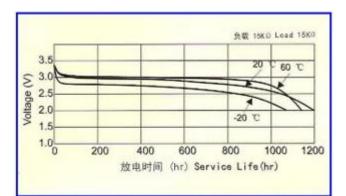
### **TECHNICAL INFORMATIONS**

Item	Specifications	Conditions	
Nominal Voltage	3.0V		
Typical Capacity	220 mAh	Standard discharge with load $15k\Omega$	
Instantaneous short-circuit current	≥250 mA	Time≤0.5 second	
Off-load voltage	≥3.20 V	No load	
Service Output - Initial	1180 h	Continuous discharge with load 15kΩ, till 2.0v end- voltage, Temperature 20-25°C, under the condition of related humidity≤75%RH	
Service Output - After 12 months storage	1110 h		
Typical Weight	2.75 gr		
Recommended Storage Temperature Range	20+/-2°C	5 years after delivery under proper storage conditions.	
Recommended Operation Temperature Range	-20° C to 60°C		
Shelf Life	3-5 Years	Recommended Storage Range : 20+/-2°C Recommended Humidity Range : 65+/-20%RH	

### Discharge Characteristics



**Femperature Characteristics** 



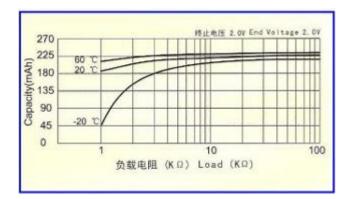
REV003-Revised Date:16.12.2022

www.power-xtra.com



# Power-Xtra CR2032 - 3V Lithium Li-MnO2 Battery - 5 pcs/blister

## **Load Capacity**

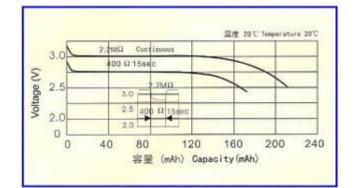


## **FECHNICAL INFORMATIONS**

ltem

I

## ulse Discharge Characteristics



STANDARD

REV003-Revised	Date:16.12.2022

Dimension		Diameter	20.0 (-0.20) mm
Dimension	Using vernier caliper (accuracy≥0.02) while avoiding short-circuit	Height	3.2 (±0.1) mm
Off-load voltage	Using multimeter (accuracy $\geq$ 0.25%) internal resistance $\geq$ 1M $\Omega$	≥3.20v	
Instantaneous short– circuit current	Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour	≥250 mA	
Appearance Eyeballing		Bright, clean, no rust, no leakage, And no flaw	
Continuously discharge for with load 15kΩ, temperature at 20~25°C, humidity at 65±20% till 2.0v end-voltage (for fresh battery only: within 3 months )		≥1180 h	
Put battery on the platform of the vibrations machine, start theVibration testmachine and adjust the frequency form 10 times per minute to15 times per minute. keep it running for an hour		Characteristics keep stability	
Leakage at high temperature test	Stored under temperature (50°C) for 10 days	No leakage allowed	
Over discharge Test After 2.0v end-voltage, continuously discharged for 5 hours		No leakage allowed	

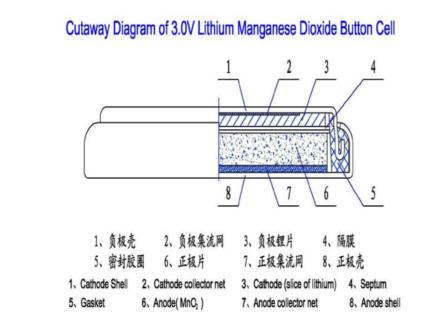
**Test Methods** 

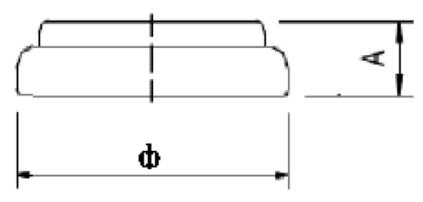


Power-Xtra CR2032 - 3V Lithium Li-MnO2 Battery - 5 pcs/blister

### Image and Technical Drawings







 $\Phi{=}20.0\,($  -0.2)mm A= 3.2(  $\pm0.1)\,\text{mm}$ 

REV003-Revised Date:16.12.2022