

Product Name: lithium manganese dioxide battery

Type: CR2016

Lithium Manganese Battery



PRODUCT SPECIFICATION

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1. Scope

This specification governs the performance of the following Akyga Lithium Button Cell

model: CR2016.

Designations:

Akyga: CR2016
IEC: CR2016
MAXE11: CR2016
SONY: CR2016
DURACELL: DL2016

Nominal Voltage: 3V

Typical Weight: 1.9 g

2. Technique parameter

It	cem	Unit	Standard		
D:	Diameter		20.0 (-0.2)		
Dimensions	Height	mm	1.6(-0.2)		
Open v	voltage	V	3. 1-3. 40		
Instant short-	circuit current	mA	≥300		
Nominal capacit	ty (Load 30KΩ)	mAh	90		
Appearance	The outward appearance is smooth, bright and clean, no rusty stain				
Min time of	Initial stage (New battery)	h	910		
discharge	Delayed for 12 months	11	860		
Over-discharge	Characteristics	No leakage			



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3, Test method

No.	Item	Condition			
1	Dimensions	When measure with vernier calipers whose precision is up 0.02mm. to avoid short circuit, should paste on one insulation material on one end of the vernier calipers			
2	Open voltage	the precision of Multimeters is not lower than 0.25%,intel resistance is bigger than $1 M\Omega$			
3	Instant short-circuit current	When test with Multimeters,not surpass 0.5 second each time, avoid duplicating tests, if need once more, the time-gap should above half hour			
4	Appearance	visual			
5	Min time of discharge	Lay aside above 8 hours in the temperature of $20\pm2^{\circ}$ C and under the humidity of $60\pm15\%$ conditions, with the condition that Resistance is $30~\text{k}\Omega$, end-point voltage is 2.0V. The new battery (Initial stage)should be tested in 60 days after produce. The old battery (Delayed for 12 months) should be tested in 14 days after the storage period.			
6	Over-discharge Characteristics	Take nine battery in the temperature of $20\pm2^{\circ}\text{C}$ and under the humidity of 60 \pm 15% conditions, with the condition that Resistance is 30 k Ω , end-point voltage is 1.2V. visual test.			

4. Acceptance rule

Check Criterion: ISO2859-1:1999(GB/T2828.1-2003),

The concrete item see the sheet of the following:

NO.	Check	item	IL	AQL
1	Dimensions		_	Sampling 20
2	Open v	oltage		0.25
3	Appearance	Cr	II	0.015
		Maj		0. 25
		Min		0.40



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5, Cautions for Use

- 5.1 The battery shall be installed with its "+" and "-" polarity in a correct position, otherwise may cause short-circuit.
- 5.2 Short-circuiting, heating, disposing of into fire or disassembling of battery is prohibited.
- 5.3 Battery can not be forced discharged, which leads to excess gassing and may result in bulging, leakage or explosion.
- 5.4 New batteries and used ones can not be used at the same time. It is recommended to use the same brand when replacing batteries.
- 5.5 Direct soldering is not allowed, or else it will damage the battery.
- 5.6 Battery are to be kept away from children. If swallowed, contact a physician at once.

6. Storage Environment

The environment temperature at 0 to 30 $^{\circ}$ C, RH not more than 75% is proper. Keep the environment sweep, cool, dry, well ventilated and should not close to heat high and wet place.

7. Marking and package

Basis customer request

8. Discharge Characteristics (Initial stage, Load 30KΩ, 24h /d, EPV 2.0 V)

