

Model No.: CR2430

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1. APPLICABILITY

This specification is applicable to GP Manganese Dioxide Lithium Primary Cell CR2430.

2. GENERAL

2.1 Type designation : CR2430 Nominal voltage : 3V 2.2

Typical capacity 2.3

: 300mAh@15k Ω to 2.5V Shape and dimension 2.4 : Refer to Drawing 1.

Typical weight 2.5 : 4.3g Shelf life 2.6 : 5 years

3. APPEARANCE

There shall be no dirt, scratch or deformation detrimental to practical service in appearance.

4. CELL VOLTAGE

Test method

Method of sampling : MIL-STD-105E level II single sampling normal inspection.

: Digital Voltmeter (DVM) with the precision of 1mV (internal resistance Voltmeter

not less than 1 Megohm)

Test temperature : 20±2°C

4.2 Off Load Voltage

At shipping	12 months after manufactured	
Above 3V	Above 3V	



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5. Service Life

	Test Mode	Initial	Initial	12 months storage at 20°C (Nominal)
		(Nominal)	(Minimum)	
Service life at 20±2°C	15kΩ24H/D (EPV=2.5V)	1310H	1300H	1260H

H: hour

D: day

EPV: end point voltage

Note:

§ Initial test: A test commencing within one month after delivery.

§ Storage test: A test conducted after 12 months storage under the specified conditions after delivery.

6. ELECTROLYTE LEAKAGE

6.1 Leakage on arrival at warehouse.

Leakage shall be checked with naked eye. No leakage shall be observed with the naked eye; and no bulging exceeding the maximum dimensions shall result.

6.2 Leakage at room temperature

After storing for 12 months at 20 ± 15 °C, 65 ± 20 %RH, no leakage shall be observed with the naked eye; and no bulging exceeding the maximum dimensions shall result.

6.3 Leakage at high temperature

Within thirty days of manufacture, the cell shall be stored for 30 days at 45±2°C and below 70% relative humidity, no leakage shall be observed with the naked eye; and no bulging exceeding the maximum dimensions shall result.

6.4 Leakage of discharge

After loading with 15k Ohm continuously down to 2.0V at 20±2°C, 65±20%RH, no leakage shall be observed with the naked eye; and no bulging exceeding the maximum dimensions shall result.



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7. QUALITY ASSURANCE

DESCRIPTION	SAMPLING PLAN		
Battery dimensions	0.65% (Note 5)		
Appearance	1.0% (Note 5)		
Off load voltage	0.65% (Note 5)		
Service output	Note 1 (Note 5)		
Leakage 6.1	0.65% (Note 2 & 5)		
6.2	Note 3		
6.3	Note 4		
6.4	Note 4		

Note 1: Acceptance / rejection in accordance with IEC publication 60086-1 (2007), Sub-clause 5.3.

- 1) Test nine batteries.
- 2) Calculate the average without the exclusion of any result.
- 3) If this average is equal to or greater than the specified figure and no more than one battery has a service output of less than 80% of the specified figure, the batteries are considered to conform for service output.
- 4) If this average is less than the specified figure and/or more than one battery has a service output of less than 80% of the specified figure, repeat the test on another sample of nine batteries and calculate the average as previously.
- 5) If the average of this second test is equal to or greater than the specified figure and no more than one battery has a service output of less than 80% of the specified figure, the batteries are considered to conform for service output.
- 6) If the average of second test is less than the specified figure and/or more than one battery has a service output of less than 80% of the specified figure, the batteries are considered not to conform and no further testing is permitted.
- Note 2: Leakage on arrival at warehouse is within two months after shipping.
- Note 3: Sample size : n=20
 - Judgement: Ac=1 Re=2
- Note 4: Sample size :n=20
 - Judgement :Ac=0, Re=1
- Note 5: AQL General Inspection level II, single sampling plan.

8. PACKAGING

Packaging shall be a form agreed by both parties.



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Precaution & Handling

- 1) Do not disassemble or short-circuit batteries.
- 2) Do not recharge batteries.
- 3) Do not dispose of batteries in fire.
- Do not allow metal objects to contact the battery terminals.
- 5) Do not mix with used or other battery type (such as alkaline with carbon zinc).
- 6) Do not solder the batteries directly. If soldering or welding connection to the battery is required, consult our engineer for proper methods.
- Do not over-discharge batteries. Force discharging batteries by external power source in a series may cause explosion.
- 8) To install or remove batteries, follow the equipment manufacturer's instructions.
- 9) Keep battery away from small children. If swallowed, consult a physician at once.
- 10) Remove batteries from device when it is not in use.

Storage

- 1) Store in a cool, dry place before use.
- 2) Do not keep batteries at temperature of 45°C or above.
- 3) Do not keep batteries at relative humidity of 75% or above.

GP Batteries

Product Specifications

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Drawing 1

