Product Specifications

Model No.:CR1632

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1. APPLICABILITY

This specification is applicable to GP Manganese Dioxide Lithium Primary Cell CR1632.

2. GENERAL

- 2.1 Type designation
- 2.2 Nominal voltage
- 2.3 Typical capacity
- 2.4 Shape and dimension
- : 140mAh (load: 15kΩ, cutoff voltage:2.0V) : Refer to Drawing 1.
- 2.5 Typical weight
- : 1.9g

: CR1632

: 3V

3. APPEARANCE

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

4. CELL VOLTAGE

4.1 Test method

lootinou	
Method of sampling	: MIL-STD-105E level II single sampling normal inspection.
Voltmeter	: Digital Voltmeter (DVM) with the precision of 1mV (internal resistance
	not less than 1 Megohm)
Test temperature	: 23±3°C

4.2 Off Load Voltage

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

5 Service Life

	Test Mode	Initial	12 months storage at 23°C
		(Minimum)	(Minimum)
Service life at 23±3°C	15kΩ24H/D (EPV=2.0V)	640H	634H

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.



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6. ELECTROLYTE LEAKAGE

	Test Items	Test Conditions	Requirements	
6.1	Arrival at warehouse	Within one month after shipping	There shall be no	
6.2	65±20%RH		leakage observed with naked eye and no bulging	
6.3			or deformation of batteries in excess of	
6.4	Over-discharge	15 k Ω continuously discharge down to 1.8V at 20±2°C, 65±20%RH	dimensions on shown in the Drawing 1	

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 (2011), 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 8% 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.

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8. PACKAGING

Packaging shall be a form agreed by both parties.

9. WARRANTY

One (1) year limited warranty against workmanship and material defects.

Precaution & Handling

- 1) Do not disassemble or short-circuit batteries.
- 2) Do not recharge batteries.
- 3) Do not dispose of batteries in fire.
- 4) 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.
- 7) 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 30°C or above.
- 3) Do not keep batteries at relative humidity of 75% or above.

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Drawing 1



