

Test Report

Report No.: SZES150600178301

Date: 2015-06-16

Applicant: Shenzhen Motoma Power Co., Ltd.
321-324 Room, 3/F., Building A, Honghualing Industrial District, Taoyuan Road,
Nanshan, Shenzhen, Guangdong, China

Test object / Model : Zinc Chloride Battery
R20S

Test specifications / Test standard: IEC/EN 60086-1: 2011 Primary batteries - Part 1: General
Clause 4.2 Performance

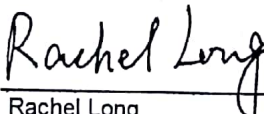
IEC/EN 60086-2: 2011 Primary batteries - Part 2: Physical and electrical specifications

Purpose of examination: Test according to the test specification.

Test result: See below pages.

Remark: Applicant information: IMPORTERS TAX IDENTIFICATION NUMBER 0000009488


Simon Chen
Project Reviewer
Safety Laboratory


Rachel Long
Project Engineer

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1. Function / Description:

Zinc Chloride Battery

2. Ratings:

Trademark:

MOTOMA[®]

Model:

R20S

Rated Voltage:

1,5 Vd.c.

3. Test:

Possible test case verdicts:

- test case does not apply to the test object: N/A (Not Applicable)
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F (Fail)

All test data in this report are copied from original test report SZES141100319201, dated 2014-12-16, with following change/additional:

- Update applicant address.

After compare, no additional tests were considered necessary.

The tests were done in the Electrical Safety Laboratory of SGS-CSTC in Shenzhen.

Test item was received on 2014-11-24.

Tests were performed from 2014-11-24 to 2014-12-10.

Ambient: (20±2)°C and (55±20)% RH

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4. Test result:

| TABLE 6.1.1.3 | | Battery discharge result- Specifications: R20S | | P |
|---------------|---|--|--------------|---|
| Condition 1 | | | | |
| R/Ω | Daily period | EV | MAD(initial) | |
| 2,2 | 4 min beginning at hourly intervals for 8 h per day | 0,9 V | 100 mins | |
| Result | | | | |
| Sample No. | Initial discharge/mins | | Verdict | |
| R20S (#1) | 307,2 | | P | |
| R20S (#2) | 306,8 | | P | |
| R20S (#3) | 307,4 | | P | |
| R20S (#4) | 310,8 | | P | |
| R20S (#5) | 307,0 | | P | |
| R20S (#6) | 308,2 | | P | |
| R20S (#7) | 309,1 | | P | |
| R20S (#8) | 306,7 | | P | |
| R20S (#9) | 307,2 | | P | |
| Condition 2 | | | | |
| R/Ω | Daily period | EV | MAD(initial) | |
| 10 | 4 h per day | 0,9 V | 18 hours | |
| Result | | | | |
| Sample No. | Initial discharge/hours | | Verdict | |
| R20S (#10) | 27,3 | | P | |
| R20S (#11) | 27,4 | | P | |
| R20S (#12) | 27,5 | | P | |
| R20S (#13) | 27,2 | | P | |
| R20S (#14) | 27,6 | | P | |
| R20S (#15) | 27,4 | | P | |
| R20S (#16) | 27,4 | | P | |
| R20S (#17) | 27,1 | | P | |
| R20S (#18) | 27,5 | | P | |

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| Condition 3 | | | |
|-------------|-------------------------|---------|--------------|
| R/Ω | Daily period | EV | MAD(initial) |
| 2,2 | 1 h per day | 0,8 V | 2 hours |
| Result | | | |
| Sample No. | Initial discharge/hours | Verdict | |
| R20S (#19) | 5,7 | P | |
| R20S (#20) | 5,7 | P | |
| R20S (#21) | 5,7 | P | |
| R20S (#22) | 5,8 | P | |
| R20S (#23) | 5,9 | P | |
| R20S (#24) | 5,9 | P | |
| R20S (#25) | 5,9 | P | |
| R20S (#26) | 5,9 | P | |
| R20S (#27) | 5,8 | P | |

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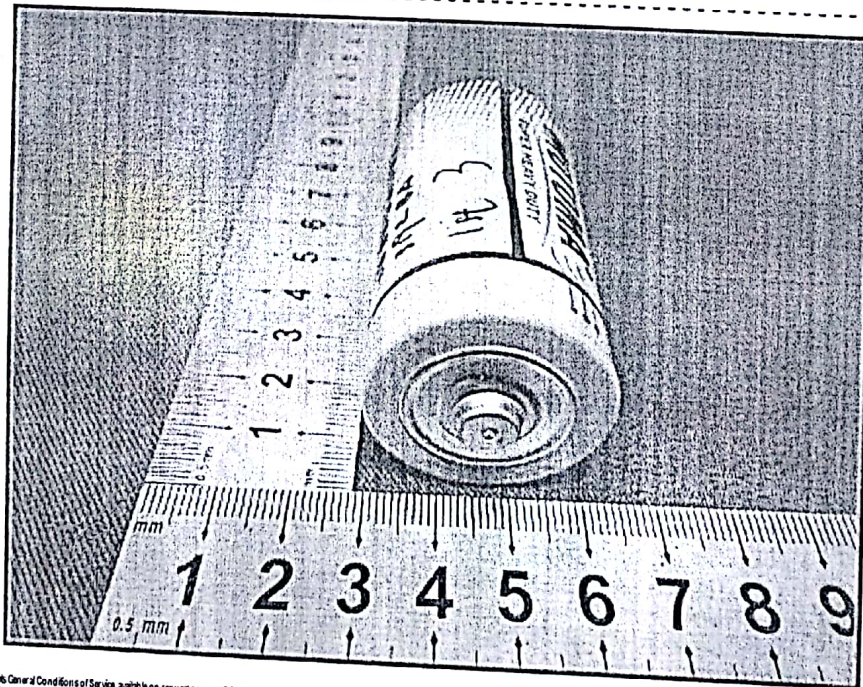
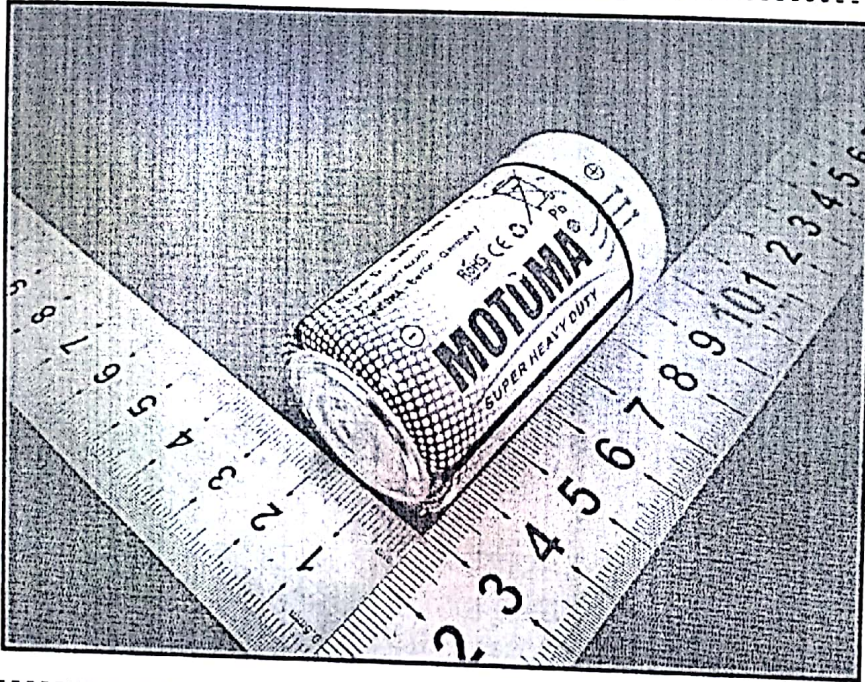
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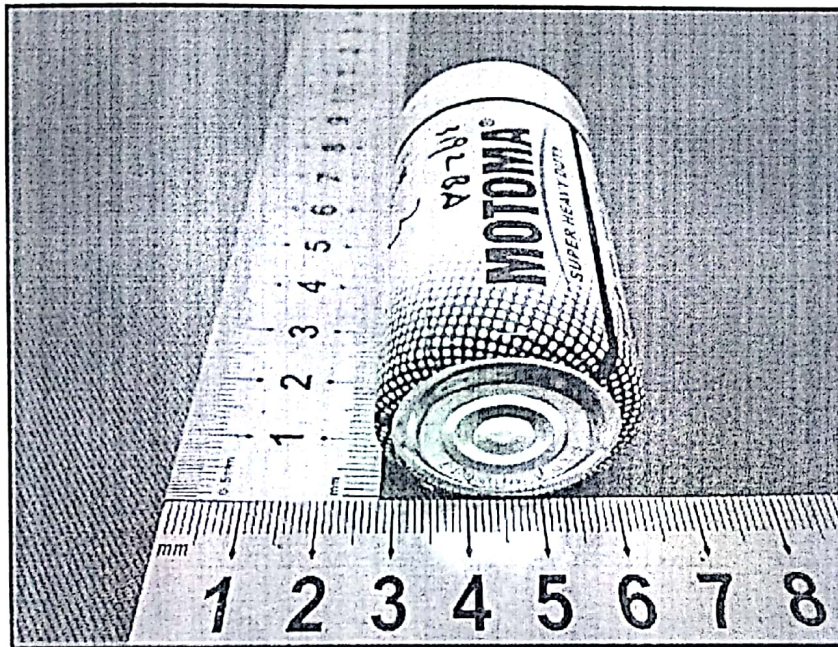
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NOTES TO THIS TEST REPORT

1. The following language(s) of marking(s) and instruction sheets were submitted during the test application:
 - English

According to the standard, instruction sheets and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. The applicant should ensure that the product in future production fulfils the receptive standard requirements.

2. The components performed satisfactorily during testing and are considered to be suitable for use in the sample tested. Acceptances of the safety critical components and materials were based on:
 - the certification record(s) and/or test report submitted by the applicant; or
 - component / material tested with the appliance

Detail shall be referred to the component list on the appendix of this test report.

--- End of Report ---

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