


Certificate of UN test for Lithium ion battery

Customer Model : KNB-L2
 Product Code : F26402305
 Product Name : 2UF653450S2-B001A


 H. Kuroda General Manager
 Technology Planning Department
 Rechargeable Battery Business Division
 SANYO Electric Co., Ltd.

We declare that this battery passed UN test.

| Manual of Tests and Criteria (38.3 Lithium batteries) | | Test results | Note | Number of test batteries/cells | |
|--|------------------------|--------------|------|---|---|
| No. | Test item | | | | |
| T 1 | Altitude simulation | Pass | | First cycle fully charged 4 batteries | After 50 cycles fully charged 4 batteries |
| T 2 | Thermal test | Pass | | | |
| T 3 | Vibration | Pass | | | |
| T 4 | Shock | Pass | | | |
| T 5 | External short circuit | Pass | | | |
| T 6 | Crush | Pass | | First cycle 50% charged 5 cells | |
| T 7 | Overcharge | Pass | | First cycle, Fully charged 4 batteries | After 50 cycles, Fully charged 4 batteries |
| T 8 | Forced discharge | Pass | | First cycle, fully discharged 10 cells | After 50 cycles, fully discharged 10 cells |

*The test data may contain additional test result other than above table.

Lithium ion battery Specification


| Item | Nominal value | Note |
|----------------------------|---------------|------|
| Watt-hour rating | 19 Wh | |
| Lithium equivalent content | 1.5 g | |

Above test procedures are compliant to the following manual.

(Manual of Tests and Criteria ST/AC.10/11, PartIII, sub-section 38.3, Rev.5A1 for cell, Rev.5A1 for battery)

Certificate of Package Drop Test for Lithium ion battery

Customer Model : KNB-L2
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 Product Name : 2UF653450S2-B001A


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 Technology Planning Department
 Rechargeable Battery Business Division
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We declare that this battery passed UN test.

| Test item | Test results | Note |
|-------------------|--------------|--|
| Package Drop Test | Pass | The package shall be dropped from 1.2m high on to a concrete surface (flat and horizontal) with five orientations (drop once a sample) ; (1)flat on the bottom, (2)flat on the top, (3)flat on the long side, (4)flat on the short side, (5)on the corner |

Lithium ion battery Specification

| Item | Nominal value | Note |
|----------------------------|---------------|------|
| Watt-hour rating | 19 Wh | |
| Lithium equivalent content | 1.5 g | |

Above test procedures are compliant to the following regulation.
 (Model Regulations ST/SG/AC.10/1/Rev.18, Special Provision188)