

## Test summary of UN test for Lithium ion battery

Customer Model : KNB-45L(WOK-0036-\*\*)   
 Global Code : BJ-C120010AB   
 Product Name : 2UF103450P-B003A   
 Manufacturer : SANYO Electric Co., Ltd. 222-1 Kaminaizen, Sumoto City, Hyogo 656-8555, Japan   
 Tel +81-799-23-3931, email prb-bp-ta@ml.jp.panasonic.com   
<https://industrial.panasonic.com/ww/products/batteries/>

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 Product Development Promotion Department   
 System Development Division   
 SANYO Electric Co., Ltd.

Test Laboratory : Same as the manufacturer

We declare that this battery passed UN test.

| Manual of Tests and Criteria<br>(38.3 Lithium batteries) |                        | Test<br>results | Note | Number of test batteries/cells                      |   |
|--|------------------------|-----------------|------|---|---|
| No.  | Test item              |                 |      |   |   |
| T 1  | Altitude simulation    | Pass            |      | First cycle<br><br>fully charged<br><br>4 batteries | After 25 cycles<br><br>fully charged<br><br>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<br>5 cells                  |   |
| T 7  | Overcharge             | Pass            |      | First cycle,fully charged 4 batteries               | After 25 cycles,fully charged 4 batteries               |
| T 8  | Forced discharge       | Pass            |      | First cycle,fully discharged 10 cells               | After 50 cycles,fully discharged 10 cells               |

\*1 The test data may contain additional test result other than above table.

## Lithium ion battery Specification

| Item                              | Value/Description       | Note               |
|-----------------------------------|-------------------------|--------------------|
| Watt-hour rating / Rated capacity | 14 Wh / 1.88 Ah         | Number of cells: 2 |
| Nominal voltage                   | 7.4 V                   |                    |
| Weight                            | max.120 g               |                    |
| Physical description              | Battery with outer case |                    |
| Lithium equivalent content        | 1.13 g                  |                    |

Above test procedures are compliant to the following manual.

(Manual of Tests and Criteria ST/SG/AC.10/11, PartIII, sub-section 38.3, Rev.5A1 for cell, Rev.6A1 for battery)

Judgment for necessity of test items is carried out based on the latest rules, and it is not linked with the version actually tested.