

Test summary of UN test for Lithium ion battery

Customer Model : KNB-63L (WOK-0047-**)
 Global Code : BJ-LQ20002AB
 Product Name : 2UF433861F-KESH-2
 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/
 Test Laboratory : Same as the manufacturer

H. Kuroda Senior Manager
 Product Development Promotion Department
 System Development 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

*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	8.4 Wh / 1.13 Ah	Number of cells: 2
Nominal voltage	7.4 V	
Weight	max. 75 g	
Physical description	Battery with outer case	
Lithium equivalent content	0.68 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.5A1 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.

Certificate of Package Test for Lithium ion battery

Customer Model : KNB-63L (WOK-0047-**)
 Global Code : BJ-LQ20002AB
 Product Name : 2UF433861F-KESH-2

H. Kuroda Senior Manager
 Product Development Promotion Department
 System Development Division
 SANYO Electric Co., Ltd.

We declare that this battery passed UN test.

Test item	Test results	Note
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 long side, (3)flat on the short side, (4)on the edge, (5)on the corner

Lithium ion battery Specification

Item	Nominal value	Note
Watt-hour rating / Rated capacity	8.4 Wh / 1.13 Ah	
Nominal voltage	7.4 V	
Lithium equivalent content	0.68 g	

Above test procedures are compliant to the following regulation.
 (Model Regulations ST/SG/AC.10/1/Rev.22, Special Provision188)