

Test summary of UN test for Lithium ion battery



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 Energy Solutions Business Division
 SANYO Electric Co., Ltd.

Customer Model : KNB-65L(M)
 Global Code : BJ-A000792AB
 Product Name : 2UF464462F-KESP-0
 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

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			First cycle	After 50 cycles
T 1	Altitude simulation	Pass			
T 2	Thermal test	Pass		First cycle	After 50 cycles
T 3	Vibration	Pass		fully charged	fully charged
T 4	Shock	Pass		4 batteries	4 batteries
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	11 Wh / 1.46 Ah	
Nominal voltage	7.4 V	
Weight	max.89.2 g	
Physical description	Battery with outer case	
Lithium equivalent content	0.88 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 Drop Test for Lithium ion battery

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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 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	11 Wh / 1.46 Ah	
Nominal voltage	7.4 V	
Lithium equivalent content	0.88 g	

Above test procedures are compliant to the following regulation.
 (Model Regulations ST/SG/AC.10/1/Rev.20, Special Provision188)