

Test summary of UN test for Lithium ion cell

M. Takahashi

Global Code BJ-A300323AA
 Product Name NCR18650BD
 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

M. Takahashi General Manager
 Energy Solutions Business Division
 SANYO Electric Co., Ltd.

We declare that this cell passed UN test.

Manual of Tests and Criteria (38.3 Lithium batteries)		Test results	Note	Number of test cells	
No.	Test item				
T 1	Altitude simulation	Pass		First cycle fully charged 10 cells	
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	-	For battery only	For battery only	
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 cell Specification		
Item	Value/Description	Note
Watt-hour rating / Rated capacity	11 Wh / 3.20Ah	
Nominal voltage	3.6 V	
Weight	max. 48.5 g	
Physical description	Cylindrical cell with shrink tube	
Lithium equivalent content	0.96 g	

Above test procedures are compliant to the following manual.
 (Manual of Tests and Criteria ST/SG/AC.10/11/Rev.5A1, PartIII, sub-section 38.3)

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 Cell

Global Code BJ-A300323AA
Product Name NCR18650BD


H. Kuroda Senior Manager
Battery Pack Engineering Department
Energy Solutions Business Division
SANYO Electric Co., Ltd.

We declare that this cell 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 cell Specification

Item	Nominal value	Note
Watt-hour rating / Rated capacity	11 Wh / 3.0 Ah	
Nominal voltage	3.6 V	
Lithium equivalent content	0.96 g	

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