Test report No. UN-17-010d	2020/7/8

Test summary of UN test for Lithium ion single cell battery

TOCAD ENERGY CO.,LTD.

Quality Assurance Department

Customer Model	PA-BT-005
Product Part Code	H1UR18650RX-1010/H1UR18650RX-1026

We declare that this single cell battery passed UN test.

Manual	of Tests and Criteria	Test	Note	Number of test samples	
(38.3 Lit	hium batteries)	results			
No.	Test item				
T1	Altitude simulation	Pass			
T2	Thermal test	Pass		First cycle fully charged 10 cells	
Т3	Vibration	Pass			
T4	Shock	Pass			
T5	External short circuit	Pass			
Т6	Impact / Crush	Pass		First cycle 50% charged 5 cells	
Т7	Overcharge	Pass		First cycle fully charged 4 single cell batteries	After 50 cycles, fully charged 4 single cell batteries
Т8	Forced discharge	Pass		First cycle fully discharged 10 cells	After 50 cycles, fully discharged 10 cells

Lithium ion single cell battery Specification

Item	Value/Description		Note
Weight	70	g	
Physical description	Prismatic battery		
Number of Cells	1		
Nominal Voltage	3.6	V	
Rated Capacity	1.87	Ah	
Watt-hour rating	6.8	Wh	
Aggregate Lithium Equivalent Content	0.561	g	

We declare that the above-mentioned test is the result of being checked according to UN test

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

(single cell battery) TOCAD ENERGY., Co.Ltd. 989-0225 4-1-14 Higashicho, Shiroishi City, Miyagi Japan Manufacturer

Tel: +81-224-25-0131, mail: info_green@tocad.co.jp, website: https://www.tocad.co.jp/

(component cell) 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

website: https://industrial.panasonic.com/ww/products/batteries/

(single cell battery) Same as the manufacturer Test Laboratory (component cell) Same as the manufacturer

Lithium ion single cell battery Result of Package Drop Test

2020/7/8			
Test report No. UN-17-010d			

PA-BT-005 H1UR18650RX-1010/H1UR18650RX-1026 TOCAD ENERGY CO.,LTD.

Quality Assurance Department

Mikiya Hiroshima Managei

We declare that this single cell battery passed UN test.

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

Lithium ion single cell battery Specification

I tem	Nominal Value		Note
Watt-hour rating	6.8	Wh	
Aggregate Lithium Equivalent Content	0.561	g	

We declare the above: The test result mentioned above was checked according to UN test (Model Regulations ST/SG/AC. 10/1/Rev. 21, Special Provision188)

P311558/P311720

Customer Model Product Part Code

Packing Drawing No.