Test report No. UN-16-069c	2020/7/8

Test summary of UN test for Lithium ion battery

TOCAD ENERGY CO.,LTD.

Quality Assurance Department

Customer Model	PA-BT-004
Product Part Code	H4UR18650RX-0998, 1028

Mikiya Hiroshima Manager

We declare that this battery passed UN test.

Manual	of Tests and Criteria	Test	Note	Number of test samples		
(38.3 L	ithium batteries)	results				
No.	Test item					
T1	Altitude simulation	Pass				
T2	Thermal test	Pass	'	First cycle fully charged After 50 cycles f 4 batteries 4 batter	After 50 avales fully shorred	
ТЗ	Vibration	Pass			·	
Γ4	Shock	Pass			4 batteries	
Г5	External short circuit	Pass				
Γ6	Impact / Crush	Pass		First cycle 50% charged 5 cells		
Т7	Overcharge	Pass		First cycle fully charged 4 batteries	After 50 cycles, fully charged 4 batteries	
Т8	Forced discharge	Pass		First cycle fully discharged 10 cells	After 50 cycles, fully discharged 10 cells	

Lithium ion battery Specification

Item	Value/Description		Note
Weight	Max. 250	g	
Physical description	Prismatic battery		
Number of Cells	4		
Nominal Voltage	14.4	V	
Rated Capacity	1.75	Ah	
Watt-hour rating	26	Wh	
Aggregate Lithium Equivalent Content	2.1	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. 5A2 for battery)

Manufacturer (battery) TOCAD ENERGY., Co.Ltd. 989-0225 4-1-14 Higa

TOCAD ENERGY., Co.Ltd. 989-0225 4-1-14 Higashicho, Shiroishi City, Miyagi Japan

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/

Test Laboratory (battery) Same as the manufacturer

(component cell) Same as the manufacturer

Lithium ion battery Result of Package Drop Test

2020/7/8	
Test report No. UN-16-069c	

TOCAD ENERGY CO.,LTD.

Quality Assurance Department

Mikiya Hiroshima Manager

Customer Model	PA-BT-004
Product Part Code	H4UR18650RX-0998, 1028
Packing Drawing No.	P311375/P311722

We declare that this 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 battery Specification

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Item	Nominal Value		Note
Watt-hour rating	26	Wh	
Aggregate Lithium Equivalent Content	2.1	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)