

Test report No. UN-13-004h

2023/1/1

Test summary of UN test for Lithium ion battery

TOCAD ENERGY CO.,LTD.

Quality Assurance Department

| | |
|-------------------|-----------------|
| Customer Model | BA-E001 |
| Product Part Code | H2UR18650A-0891 |


Mikiya Hiroshima Manager

We declare that this battery passed UN test.

| Manual of Tests and Criteria (38.3 Lithium batteries) | | Test results | Note | Number of test samples | |
|--|------------------------|-----------------|------|--|---|
| No. | Test item | | | | |
| T1 | Altitude simulation | Pass | | First cycle fully charged 4 batteries | After 25 cycles fully charged 4 batteries |
| T2 | Thermal test | Pass | | | |
| T3 | Vibration | Pass | | | |
| T4 | Shock | Pass | | | |
| T5 | External short circuit | Pass | | | |
| T6 | Impact / Crush | Pass | | First cycle 50% charged 5 cells | |
| T7 | Overcharge | Pass | | First cycle fully charged 4 batteries | After 25 cycles, fully charged 4 batteries |
| T8 | 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. 108.5 g | |
| Physical description | Prismatic battery | |
| Nominal Voltage | 7.2 V | |
| Rated Capacity | 1.85 Ah | |
| Watt-hour rating | 14 Wh | |
| Aggregate Lithium Equivalent Content | 1.11 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. 5A2 for cell, Rev. 7 for battery)

| | | |
|-----------------|------------------|---|
| Manufacturer | (battery) | 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 |

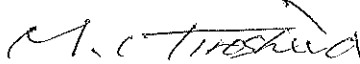
Lithium ion battery Result of Package Drop Test

2023/1/1

Test report No. UN-UN-13-004h

| | |
|---------------------|-----------------|
| Customer Model | BA-E001 |
| Product Part Code | H2UR18650A-0891 |
| Packing Drawing No. | P310382 |

TOCAD ENERGY CO.,LTD.
Quality Assurance Department


Mikiya Hiroshima Manager

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

| Item | Nominal Value | Note |
|--------------------------------------|---------------|------|
| Watt-hour rating | 14 Wh | |
| Aggregate Lithium Equivalent Content | 1.11 g | |

We declare the above : The test result mentioned above was checked according to UN test
(Model Regulations ST/SG/AC. 10/1/Rev. 22, Special Provision188)