

Test report identification no.: 2019-07-18-02

Producer: PT. VARTA Microbattery

Test Laboratory: Application Test Lab
PT. VARTA Microbattery (Indonesia)
Batam Industrial Park
Jalan Angsana Blk 309 & 310, Mukakuning
Pulau Batam Riau 29433 Indonesia

Lab-internal reference no.: JT50510

Lab-internal test date: 2015-07-20

Object of the declaration:

Type of battery:	Rechargeable Lithium ion battery
Article:	1/LPP 503759 8HH PCM W – SOC 30%
Material no.:	720454 #
VKB no.:	56427 201 020
IEC Designation:	1ICP6/37/59
Voltage:	3.7V
Watt-hour rating:	5.2Wh
Mass (approx.):	25 g

The object of the declaration described above is in conformity with the requirements of the following document:

Documents No.	Title	Edition / Date of issue
ST/SG/AC.10/11/Rev.5 Amend. 1	Recommendations on the Transport of Dangerous Goods, UN Manual of Tests and Criteria, Part III, subsection 38.3	2011

List of tests conducted and results:

Test Item	Test Result
T1. Altitude simulation	Pass
T2. Thermal test	Pass
T3. Vibration	Pass
T4. Shock	Pass
T5. External short circuit	Pass
T6. Impact	Pass *
T7. Overcharge	Pass
T8. Forced Discharge	Pass *

* Reference to report of LPP 503759 8HH cell
Test samples of material no. 715417, equivalent to 720454

Additional information:

In original VARTA packaging the products comply with the following special provisions of international transport regulations:

- IATA DGR: Packing Instruction 965 Section IB (max. 30 % state of charge)
(Transportations of cells or batteries packed with equipment or contained in equipment have to follow Packing Instructions 966 or 967 Section II.)
- ADR/RID/ADN/IMDG Code: Special Provision 188
- DOT / 49 CFR: §173.185 (c)

The products have been manufactured under a quality management programme according to IATA DGR clause 3.9.2.6, ADR clause 2.2.9.1.7 (e) and IMDG code clause 2.9.4.5.

Singapore, 18 July 2019
(place and date of issue)



(company stamp)



(signature)
(Low Chee Leong)
Manager
Technical Support

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