

What does UN 38.3 mean for lithium batteries?

UN 38.3 has been adopted by regulators and competent authorities around the world, making it a requirement for global market access. The protocol includes identifying/classifying lithium batteries; testing/qualification requirements; design guidance/conditions and packaging/shipping obligations.

Do lithium batteries have to pass UN transportation testing?

Nearly all lithium batteries are required to pass section 38.3 of the UN Manual of Tests and Criteria (UN Transportation Testing). Intertek can test for conformance to the UN 38.3 Transportation Testing requirements and help manufacturers avoid costly delays in getting their product to market.

What is UN 38.3?

Sustainable Solutions, Superior Performance - TRITEK turn your ideas into perfect products. UN 38.3 refers to Part 3, Paragraph 3, of the United Nations Handbook on the Testing and Standards of Transport of Dangerous Goods. In order to ensure the safety of lithium battery air transportation and avoid unsafe incidents.

Are Tritek batteries UN 38.3 certified?

All electric bike smart lithium-ion batteries made by Tritek are certified with UN 38.3. Is UN 38.3 mandatory? Nearly all lithium batteries are required to pass section 38.3 of the UN Manual of Tests and Criteria, to ensure the safety of lithium batteries during shipping. What are UN 3090 and UN 3480?

Do lithium batteries need to be tested?

Updated July 2024! For safety reasons, lithium batteries must be subjected to a series of design tests per sub-section 38.3 of the UN Manual of Tests and Criteria.

Can a lithium battery be transported under a shipping name?

According to Section 2.43.1 of the Transportation of Dangerous Goods Regulations, you should not transport lithium cells or batteries under listed shipping names unless those batteries: a. Have passed relevant tests according to UN 38.3. b. Have a safety venting device. c.

UN 38 3 TEST REPORT FOR LITHIUM BATTERIES



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Purpose. This section presents the procedures to be followed for the classification of lithium metal and lithium ion cells and batteries (see UN Nos. 3090, 3091, 3480 and 3481, and the a?)



UN/DOT 38.3 Testing - Lithium batteries Search form (UN/DOT 38.3) report is very often a prerequisite for a transport . This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature

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For example, you should ensure that your lithium batteries are safe by having them tested against the requirements in UN 38.3. After the batteries have been tested, you need to provide relevant test reports.



Wersja 2 Formularz zapisu nr 50 ObowiA?zuje od : 15/06/2020 ZaA?A?cznik nr 3 do KsiA?gi JakoA?ci LSZiC Leakage a?? The visible escape of electrolyte or other material from a cell or battery or the loss of material (except battery casing, handling devices or labels) from a cell or battery such that the mass loss exceeds the values



UN 38.3 TEST REPORT SUMMARY We herewith confirm that each battery of this type is proved to meet the requirements of applicable tests in the UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7, Part III, Sub-Section 38.3. In the following, lithium battery test summary according to Sub-Section 38.3.5 (a), (b)
Manufacturer: Victron Energy B.V.

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[d] A unique test report identification number; Xeno Q110408 [e]Date of test report; April. 08, 2011 Test T.3 : Vibration T8 Test Pass T5 Test Pass Test T.6 : Impact/Crush(cell only test) UN 38.3 Test Summary Report [f] Description of cell or battery to include at a minimum: Lithium ion or lithium metal cell or battery;Mass; Watt-hour rating,

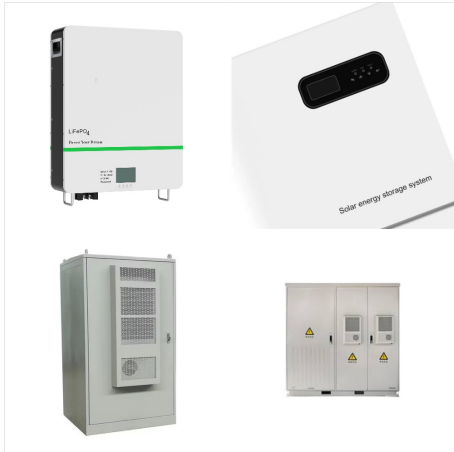


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The changes that took effect in January relate solely to the way this test is documented. Back in 2019, a shipper just needed to provide a simple note verifying the cells or batteries had passed the UN 38.3 test. A short sentence such as "The UN 38.3 test was passed successfully" was enough. This changed at the first of the new year.

UN 38.3 TEST REPORT FOR LITHIUM BATTERIES



Product Test Information Motorola Solutions's lithium batteries have successfully passed and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3. Test compliance is accomplished through a combination of battery testing and cell testing. Performed Tests Results T1 Altitude Simulation Pass T2 Thermal Pass



UN 38.3 is an important international standard for testing lithium-ion batteries. Which lab tests does the standard include to make sure that such batteries can be transported safely? Lithium-ion batteries are widely used in a variety of electronic devices, from smartphones and laptops to electric vehicles.



The UN 38.3 test itself remains in its current form, only the demands on the documentation of the test have become stricter. This update was already introduced and publicly released on January 1 st, 2019. Shippers were granted a one-year transition period during which the new regulations were not yet binding.

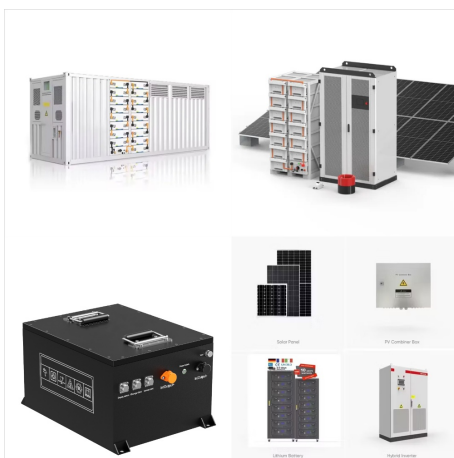
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The Rechargeable Lithium-Ion Polymer Battery submitted by manufacturer are single cell batteries. According to the standard, a single cell Battery is considered a "cell" and shall be tested according to the



UN/DOT 38.3 Transportation Testing Overview. Lithium batteries are classified as dangerous goods and can pose a safety risk if not tested and packaged in accordance with the transport regulations. UN/DOT 38.3 testing helps ensure the safety of lithium ion or lithium metal batteries during shipping. The transport of lithium batteries is subject



The certificate must match your lithium cell / lithium battery. Transport of lithium cells / lithium batteries without UN 38.3 test Without a confirmation of this UN 38.3 test lithium cells and lithium batteries may only be transported following stricter requirements as so called prototypes.

UN 38 3 TEST REPORT FOR LITHIUM BATTERIES



Lithium batteries must be tested according to UN 38.3, IEC 62133, IEC 62619 and other battery standards to ensure safe transportation and global market access. Classified as a class-9 dangerous goods by the United Nations, batteries need to meet requirements specified in UN 38.3 Regulation which details the specifics that must be fulfilled



Lithium Battery UN38.3 Test Report 1 7.2V 2i 1/4
?STANDARD RECOMMENDATIONS ON
TRANSPORT OF DANGEROUS GOODS,
MANUAL OF TEST AND CRITERIA, SECTON 38.3
LITHIUM BATTERIES (ST/SG/AC.10/11/Rev 6
38.3) 3 Microsoft Word - PBP2A66D1 UN Report
Author: chingyuehhuang Created Date:



T 2 38.3.4.2 Thermal test Pass T 3 38.3.4.3
Vibration Pass T 4 38.3.4.4 Shock Pass T 5
38.3.4.5 External short circuit Pass The submitted
samples comply with the requirements of UNITED
NATIONS Section 38.3 Of The Sixth Revised
Edition UN38.3 Test report list Model Name HP PN
Ratings Mass (g) Report number Date of issue Test
period

UN 38 3 TEST REPORT FOR LITHIUM BATTERIES



In January 2020, the UN standards regarding lithium metal and lithium-ion batteries were modified to now include complete test summaries for transportation and final application. Electronics Test Centre Airdrie is experienced in a?)



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38.3.2. Scope.



Why does a Lithium Battery require a UN 38.3 Test?
As we saw in our posts on Why Lithium Batteries are Dangerous and How to ship Lithium Batteries, there is a risk that a poorly-designed, or poorly-manufactured battery could develop a fault causing it to catch on fire.

UN 38 3 TEST REPORT FOR LITHIUM BATTERIES



UN 38.3 Supplier Test Summary. UN 38.3 Supplier Test Summary. From the first of January 2020 onwards the new Supplier Test Summary UN38.3 for Lithium cells are needed in order of transport the respective batteries. Lithium Primary Battery. Lithium Primary Battery. CR 1025 pdf (100.6 KB) [Home](#)



UN 38.3 Test Summary Report cell with part number: 11 1 0760x xx or 14 1 0760x xx. [g] List of Tests Conducted Result (Pass / Fail / N.A.) Test record reference 38.3.4.1 T.1: Altitude simulation . Pass ; Page 5 : 38.3.4.2 T.2: Thermal test Lithium Cell Battery Test Summary UN Model Regulations Tests Criteria Tadiran Batteries GmbH SL-760