



Lithium-Ion-Battery 48 Volt 60Ah with integrated battery management system

Manufactured by Atec Batterien GmbH, Germany

Built into JUNG machine skates models EP 5, 15 and 25 | MPN [JLA-e]



TRANSPORT INFORMATION & TEST SUMMARY

Lithium-Ion-Batteries underlie the following Dangerous Goods regulation and exceptions:

UN3480: Lithium-Ion-Batteries

UN3481: Lithium-Ion-Batteries with Equipment, or Lithium-Ion-Batteries packaged in Equipment.

This UN is valid only if the battery is built into the intended Transport Dolly/Machine Skate.

Packaging Group II, Tunnel Category E

The Lithium-Ion-Battery Cel GBS-LFMP60AH has passed the test UN38.3.

Report ID: W03313026316D~1 dated April 5, 2012

IATA Proper Shipping Name: Lithium Ion Batteries

Hazard Class: 9

UN No.: UN3480

Packaging group: II

IMDG Proper Shipping Name: Lithium Ion Batteries

Hazard Class: 9

UN No.: UN3480

Packaging group: II

Transport mode: Air freight, Ocean freight

SGS Germany GmbH

Test Summary K182

Client: Atec Batterien GmbH

Equipment Under Test: Batteries No. AL1520505-1, -2, -3, -4

Manufacturer: Atec Batterien GmbH

Task: UN transportation test for large rechargeable batteries (T.1 to T.5 and T.7)

Test Specification(s): ST/SG/AC.10/11/Rev.5 Section 38.3
incl. ST/SG/AC.10/11/Rev.5/Amend.1 and 2

Results:

Test	Specification	Result
T.1 Altitude simulation	No leakage, no venting, no disassembly, no rupture, no fire and OCV after test \geq 90% OCV before test	passed
T.2 Thermal test	No leakage, no venting, no disassembly, no rupture, no fire and OCV after test \geq 90% OCV before test	passed
T.3 Vibration	No leakage, no venting, no disassembly, no rupture, no fire and OCV after test \geq 90% OCV before test	passed
T.4 Shock	No leakage, no venting, no disassembly, no rupture, no fire and OCV after test \geq 90% OCV before test	passed
T.5 External short circuit	No external temperature $>$ 170 °C, no disassembly, no rupture and no fire within 6 h after test	passed
T.7 Overcharge	There was no disassembly and no fire during test and within seven days after test.	passed

For detailed test results please refer to the test report no. K1820001, dated February 19th 2016.