

Sender:

BMZ Germany GmbH Zeche Gustav 1, 63791 Karlstein

BMZ Germany GmbH

Qualitätssicherung
Logistikcenter
Zeche Gustav 1

63791 Karlstein am Main

Questionary for Defective Batteries

The condition of the batteries has to be analyzed and documented by a competent and authorized person before they can be shipped.

In addition, each battery for which dangerous heat development cannot be excluded, has to be treated as damaged battery, and therefore is only allowed to be transported according to ADR SV 376 regulations.

A lithium-ion battery is considered damaged, if one of the following questions has been answered with yes:

- | Yes | No | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Is the housing damaged or deformed substantially? |
| <input type="checkbox"/> | <input type="checkbox"/> | Has the battery any leakages (e.g. noises when it's shaken, stains are visible from the outside), or has the pressure release devise been activated? |
| <input type="checkbox"/> | <input type="checkbox"/> | Does an odd smell occur (e.g. organic electrolyts, charred plastic)? |
| <input type="checkbox"/> | <input type="checkbox"/> | Does the battery shows a difference in temperature? |
| <input type="checkbox"/> | <input type="checkbox"/> | - measureable temperature increase in disconnected condition (higher than body temperature |
| <input type="checkbox"/> | <input type="checkbox"/> | - tarnished metal?? |
| <input type="checkbox"/> | <input type="checkbox"/> | - melted or deformed plastic parts? |
| <input type="checkbox"/> | <input type="checkbox"/> | Does the error memory of the BMS (battery management system) report defective cells, high voltage, over charging, deep discharge, or excessive temperature? |
| <input type="checkbox"/> | <input type="checkbox"/> | Has a protective device been triggered (meltdown fuse is blown, voltage measured)? |
| <input type="checkbox"/> | <input type="checkbox"/> | Can noises be heard from loose parts from the inside or outside when shaken (e.g. from loose charge/discharge connectors or communication interface) |
| <input type="checkbox"/> | <input type="checkbox"/> | Have external wires been squeezed or cut? |
| <input type="checkbox"/> | <input type="checkbox"/> | Are water damages visible (e.g. corrosion on charge/discharge connectors)? |
| <input type="checkbox"/> | <input type="checkbox"/> | Does a malfunction of the charge-level display occur? |
| <input type="checkbox"/> | <input type="checkbox"/> | The malfunction of the battery cannot be diagnosed before it's sent to the place where it's to be analysed? |

ADR SV 376 does not apply for used batteries or batteries which are only partially efficient batteries, which are still in technical safe and sound condition.

With Best Regards

Date, Signature

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