

Magic Leap Battery Technical Specification Sheet

About

Magic Leap's Battery Technical Specification aims to provide Magic Leap's customers and partners a more detailed look into the Magic Leap 2 batteries and charging system. This document will serve to aid partners and customers traveling with a Magic Leap 2 device through various modes of transportation.

Product Specs

These specifications refer to the built-in rechargeable lithium ion batteries within the Compute Pack and the Controller of the Magic Leap 2 device.

| Compute Pack Lithium Ion Battery Specifications | |
|---|----------------------------|
| Weight | 161 g |
| Battery Capacity | 5.776 Ah / 44.7 Wh |
| Nominal Voltage | 7.74 VDC |
| Model Name | MLBX |
| Magic Leap Part Number | 70006306-000 |
| Manufacturer | Amperex Technology Limited |

| Controller Lithium Ion Battery Specifications | |
|---|----------------------------|
| Weight | 30 g |
| Battery Capacity | 2.27 Ah / 8.74 Wh |
| Nominal Voltage | 3.85 VDC |
| Model Name | MLB4A |
| Magic Leap Part Number | 70005064-000 |
| Manufacturer | Amperex Technology Limited |

| Operating Environmental | Specification |
|-------------------------|--|
| Operating Conditions | Temperature 10° to 30° C Humidity: 5% to 95% Atmospheric Pressure: 80 to 106 kPa |
| Storage Conditions | Temperature: -20° C to 45° C |

| | |
|----------------------|--|
| | Humidity: 5% to 95% Atmospheric Pressure: 26.5 to 106 kPa |
| Transport Conditions | Temperature: -25° C to 65° C Humidity: 5% to 95% Atmospheric Pressure: 26.5 to 106 kPa |

Hazardous Identification

| Compute Pack Lithium Ion Battery | |
|---|---|
| The battery is not dangerous when used under correct conditions | |
| Explosive Risk | This article does not belong to the risk of explosive dangerous goods |
| Flammable Risk | This article does not belong to the risk of flammable material |
| Oxidation Risk | This article does not belong to the risk of oxidation of dangerous goods |
| Toxic Risk | This article does not belong to the risk of toxicity of dangerous goods |
| Radioactive Risk | This article does not belong to the risk of radiation of dangerous goods |
| Mordant Risk | This article does not belong to the risk of corrosion of dangerous goods |
| Other Risk | This article is a lithium-polymer battery, Watt hour rate of 44.7 Wh, which belongs to the risk of miscellaneous dangerous goods, as is described in IMDG CODE and IATA DGR |

| Controller Lithium Ion Battery | |
|---|---|
| The battery is not dangerous when used under correct conditions | |
| Explosive Risk | This article does not belong to the risk of explosive dangerous goods |
| Flammable Risk | This article does not belong to the risk of flammable material |

| | |
|------------------|---|
| Oxidation Risk | This article does not belong to the risk of oxidation of dangerous goods |
| Toxic Risk | This article does not belong to the risk of toxicity of dangerous goods |
| Radioactive Risk | This article does not belong to the risk of radiation of dangerous goods |
| Mordant Risk | This article does not belong to the risk of corrosion of dangerous goods |
| Other Risk | This article is a lithium-polymer battery, Watt hour rate of 8.74 Wh, which belongs to the risk of miscellaneous dangerous goods, as is described in IMDG CODE and IATA DGR |

Toxicological Information

No toxic substances will be produced during routine operation and use.

Transportation Compliance

The Magic Leap 2 Compute Pack and Controller lithium ion batteries have been tested and shown to comply with the UN Manual of Test and Criteria, Section 38.3, according to the test procedures in subsection 38.3.4 shown below:

| Compute Pack & Controller Lithium Ion Batteries | |
|--|------------------------|
| Test Procedure | Purpose |
| 38.3.4.1 T1 | Altitude Simulation |
| 38.3.4.2 T2 | Thermal |
| 38.3.4.3 T3 | Vibration |
| 38.3.4.4 T4 | Shock |
| 38.3.4.5 T5 | External Short Circuit |
| 38.3.4.6 T6 | Impact / Crush |
| 38.3.4.7 T7 | Overcharge |
| 38.3.4.8 T8 | Forced Discharge |

- These tests were executed by Pony Testing International Group. This lab is certified by the CNAS (China National Accreditation Service for Conformity Assessment). CNAS is

an ISO/IEC 17025:2017 accredited laboratory. Both batteries have obtained a "Certification for the Safe Transport of Goods". The lithium ion battery within the Controller passed UN38.3 testing on 07/23/2021 (report ID: MPITU9LK297867U4). The lithium ion battery within the Compute Pack passed UN38.3 testing on 01/24/2022 (report ID: MPIUL4TL402427U4).

Given the Magic Leap 2 Compute Pack and Controller lithium-ion battery packs are transported in equipment, they receive a classification of UN3481. The battery's energy capacity for the Compute Pack and the Controller are 44.7 Wh and 8.74 Wh respectively. These batteries meet the battery type and size requirements for transportation according to the packing instruction PI 967 Section II (UN3481, Lithium ion batteries contained in equipment).

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