



EV-BAT-2024-001 🔗 urn:batterypass:ev-2024-001



Digital Battery Passport


Advanced Battery Technologies GmbH



Passport Identifier
urn:batterypass:ev-2024-001



✔ **Verified**


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Product Data

EV-BAT-2024-001


Product Number EV-BAT-2024-001	Category EV	Status ORIGINAL
Mass 450.5 kg	Manufacturer Advanced Battery Technologies GmbH 	Manufacturing Place Production Street 15 
Manufacturer Identifier MANUF-ABT-001	Manufacturing Date 01/15/2024	Putting into Service 02/01/2024
Warranty Period P8Y		




Carbon Footprint

The carbon footprint of the battery calculated based on the entire lifecycle.

Carbon Footprint 125.5 kg CO2e	Performance Class Class A	Carbon Footprint Study LCA Study Report 2024-001 📄 View Document
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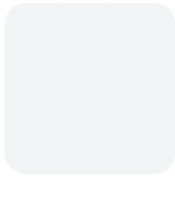
- 45.2 kgCO₂e/kWh Raw Material Acquisition
- 65.8 kgCO₂e/kWh Main Production
- 8.5 kgCO₂e/kWh Distribution
- 6 kgCO₂e/kWh End-of-Life Recycling



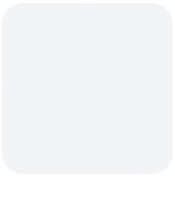
Labels

Compliance documentation and regulatory labels for this battery.

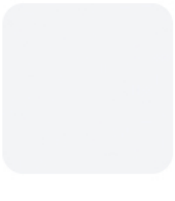
Declaration of Conformity declaration-conformity-2024-003.pdf 📄 View Document	Test Report Results test-results-2024-003.pdf 📄 View Document
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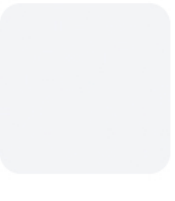
Separate Collection
Separate Collection - This battery must not be disposed of as unsorted waste but must be sent to separate collection facilities for recovery and recycling




Hazardous Material
Contains Lead (Pb) - This battery contains lead which is hazardous to health and environment



Carbon Footprint
Carbon Footprint Performance Class A - This battery has excellent carbon footprint performance



Extinguishing Agent
Extinguishing Agent: Use foam or dry powder. Do not use water



Circularity

Information about recycling, spare parts, and end-of-life handling.



Dismantling & Removal Information


Bill of Material
bill-of-material-2025-001.pdf
[📄 View Document](#)

Recycled Content

Material	Pre-Consumer Share	Post-Consumer Share
Cobalt	30.78 %	26.27 %

Spare Part Sources

Example Supplier GmbH  

 Supplier Street 1, DE-04109, Germany

Available Components

Replacement Anode (SP-ANODE-2025-001)

Safety Measures


Safety Instructions 2025-safety-instructions-001.pdf 📄 View Document	Extinguishing Agent RYtGKbgicZaHCBRQDSx
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End of Life Information

Waste Prevention waste-prevention-info-2025.pdf 📄 View Document	Separate Collection separate-collection-info.pdf 📄 View Document	Information on Collection collection-info-2025.pdf 📄 View Document
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Renewable Content


Percentage of renewable materials used

 **21.89%**





Performance

Key performance metrics and technical specifications of the battery.


Remaining Capacity 


189.00 Ah / 200.00 Ah

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Cycles Used 


6138 / 10000

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Remaining Energy 

101.50 kWh / 110.00 kWh


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Roundtrip Efficiency 


93.88 % / 95.00 %

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Current State

State of Charge 92.50 %	State of Certified Energy (SOCE) 92.50 %	Power Fade 9.50 %
Capacity Fade 11.00 %	Remaining Power Capability 90.00 kW at 89.50 % SoC 	Energy Throughput 10.50 kWh
Capacity Throughput 1500.00 Ah	Self-Discharge Rate 2.90 %	Evolution of Self-Discharge -0.40 %


Technical Specifications

Rated Capacity 200.00 Ah	Power Capability 92.50 kW at 90.00 % SoC 	Rated Energy 110.00 kWh
Rated Maximum Power 150.00 kW	C-rate 2.30 C	Power Capability Ratio 0.85
Voltage Range 24.00 V (5.10 - 40.00 V)	Initial Self-Discharge Rate 2.50 %	Expected Lifetime 15 years
Capacity Threshold for Exhaustion 70.00 %	Operating Temperature -21.05°C to 64.5°C	Roundtrip Efficiency 95.00 %
Roundtrip Efficiency at 50% SoC 95.25 %	Lifetime Reference Test lifetime-reference-2025-001.pdf 📄 View Document	C-rate Lifetime Reference Test 2.00 C

Temperature History

Extreme Temperatures +26.4 h


Time above boundary (64.5°C) 1581.2 min	Time below boundary (-21.05°C) 0 min
Time charging above boundary (64.5°C) 1247.8 min	Time charging below boundary (-21.05°C) 0 min

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Internal Resistance

Pack +0.0005 Ω


Original Resistance 0.0005 Ω	Current Resistance 0.0055 Ω
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Negative Events

Events 1

2025-06-30T09:24:52.391Z
Overheating during charging



Material Composition

Information about the battery chemistry, materials, and hazardous substances.

Battery Chemistry


NMC

Battery Materials


Lithium Critical Raw Material

Material Identifier 7439-93-2	Material Mass 1.61 kg
Component Name Anode	Component IUN eOMtThyhVNLWUZNRCBaQKxI

Hazardous Substances

 **Acute Toxicity** **yedUsFwdkelQbxeTeQOvaScfqIOOmaa**

Substance yedUsFwdkelQbxeTeQOvaScfqIOOmaa (37-70-2)	Concentration 1.80 %
Component Anode (RYtGKbgicZaHCBRQDSx)	Impacts JxkyvRnL



Supply Chain

Overview of supply chain due diligence, third-party assurances, and indices.

Due Diligence Report
report-2024-001.pdf
[📄 View Document](#)

Supply Chain Indices

GBA Human Rights Index 87%	GBA Child Labour Index 95%
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Third Party Assurances

Conflict Minerals Assurance conflict-minerals-2024-001.pdf 📄 View Document	Responsible Sourcing Certification responsible-sourcing-2024-001.pdf 📄 View Document
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