BATTERY TRANSPORT COMPLIANCE SPECIFICATION SHEET

Electric Wheelchair Model: AASRAA POWER AIR1 /PEAAR POWER AIR1 ARC01B (Lithium Version)

1. Product Overview

This document certifies the battery specifications and transport compliance of the electric wheelchair model ARC01B, equipped with an installed **lithium-ion battery pack** designed for safe air transport.

LITHIUM-ION BATTERY – APPROVED FOR AIR TRANSPORT (AS PER IATA DGR – MOBILITY AIDS)

2. Battery Specifications

Rechargeable Lithium-Ion Battery Pack, compliant with international transport regulations.

- **Battery Type:** Lithium-Ion Battery Pack
- **Model:** 126-10
- **Chemistry:** Lithium Cobalt Oxide (Li-NCM)
- **UN Number:** UN3481 (Battery contained in equipment) / UN3171 (Battery-powered vehicle – wheelchair classification)
- **Proper Shipping Name:**
  - Lithium ion batteries contained in equipment
  - Battery-powered vehicle (as applicable for wheelchair)
- **Quantity:** 1 Battery (detachable from wheelchair)
- **Nominal Voltage:** 24 Volts
- **Capacity:** 10 Ampere-hours (Ah)
- **Energy Rating:** 240 Watt-hours (Wh)
- **Configuration:** Battery is securely installed within the wheelchair can be removed by user easily before travel and taken into carry-on.

3. Regulatory Compliance

The batteries comply with applicable international transport regulations as follows:

IATA (Air Transport): Wheelchair with lithium-ion batteries is permitted for carriage. Batteries are exempt from resitrcition under IATA Dangerous Goods Regulations (DGR), Packing Instruction 952 / Special Provisions A48 & A99 (mobility aids), subject to compliance with testing requirements.

IMDG Code (Sea Transport): Classified under UN3481 / UN3171 – compliant with IMDG Code

ADR / RID (Road / Rail): Classified and permitted under international dangerous goods transport regulations

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4. Test Compliance

The battery has been tested in accordance with:

- **UN Manual of Tests and Criteria, Part III, Subsection 38.3 (UN38.3)**

Tests include:

- **Altitude Simulation Test**
- **Thermal Test**
- **Vibration Test**
- **Shock Test**
- **External Short Circuit Test**
- **Impact / Crush Test**
- **Overcharge Test**
- **Forced Discharge Test**

These results confirm compliance with:

- **Special Provision 238 (UN Model Regulations)**
- **Special Provision A67 (IATA DGR)**
- **Packing Instruction 952**
- **Special Provisions A48 & A99 (mobility aids)**

5. Design & Safety Features

- Rechargeable lithium-ion battery with stable chemistry (Li-NCM)
- Integrated Battery Management System (BMS)
- Protection against overcharge, over-discharge, and short circuit
- Enclosed in durable protective casing
- Securely fixed within wheelchair structure
- Designed to prevent leakage, fire risk, and mechanical damage under normal conditions
- Easily Detachable from the wheelchair frame.

6. Electrical Safety & Short Circuit Protection

- Internal circuit protection via BMS
- Terminals protected against accidental short circuit
- Electrical system is integrated and secured within the wheelchair
- No exposed conductive components during normal handling
- Designed to prevent accidental contact or exposure during handling

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7. Wheelchair Transport Conditions

For safe air transport, the following conditions must be ensured:

- Wheelchair must be switched **OFF**
- Battery must be **detached from the wheelchair and taken in Carry-On**
- Control system must be disconnected to prevent unintentional activation
- Wheelchair must be secured to prevent movement or damage
- Battery terminals must be protected (if accessible)

8. Passenger Guidelines

Passengers are advised to:

- Inform the airline at least **48–72 hours prior to departure**
- Provide this compliance sheet and MSDS upon request
- Follow airline-specific instructions for lithium battery mobility aids
- Confirm whether battery removal is required (varies by airline)

9. Important Notice

- The battery is compliant with UN38.3 testing requirements
- **The wheelchair is designed for transport with battery detached**
- Final acceptance is subject to airline approval and operational policies
- Some airlines may require battery disconnection or isolation
- The batteries are classified as **non-spillable** and compliant with international transport safety standards

10. Compliance Summary (For Airline Reference)

- **Battery Type**: Non-Spillable Lithium-Ion (Li-NCM)
- **UN Classification:** UN3481 / UN3171
- **Energy Rating:** 240 Wh
- **Installation:** Detachable from wheelchair
- **Quantity:** 1 Battery
- **Test Compliance:** UN38.3 Certified
- **Regulatory Status:** Permitted under IATA DGR for mobility aids

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11. Battery Identification

- **Battery Model:** 126-10
- **Manufacturer:** Huizhou Akocsi Electronic Technology Co.,LTD
- **Country of Origin:** China
- **Contact Address:** 4F, Yunhao Hi-tech Park Headquarters, Yuhe Road, Huiyang District, Huizhou

This information corresponds with the attached Material Safety Data Sheet (MSDS) for verification and reference.

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12. Handling Instruction for Airline Ground Staff

- Wheelchair contains **removable lithium-ion battery (UN3481 / UN3171)**
- Battery can be removed easily at the time of boarding.
- Wheelchair will go in Check-in while Battery goes in Carry-On with the passenger.
- The wheelchair must be:
  - Switched OFF
  - Protected from accidental activation
  - Handled carefully to avoid damage to battery housing and electrical components

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This document is issued to facilitate airline approval and safe handling of the AR901B electric wheelchair equipped with lithium-ion battery.

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