

LiPo Battery & Charger Testing Report

Reported by:

Mohammed Azab

Nada Mahomud

Date: 05. Feb. 2025

Version: 1.0

Table of Contents

1. Introduction
 2. Equipment & Components
 3. Testing Procedure
 - Battery Inspection
 - Charging Process
 - Load Testing
 - Connection to Car
 4. Test Results & Observations
 5. Safety Guidelines & Best Practices
 6. Conclusion & Recommendations
-

1. Introduction

Objective

This document outlines the testing procedures for a LiPo battery and charger to verify their functionality and ensure compatibility with the target vehicle. It also addresses connection differences and possible solutions.

Scope

- Checking battery health and charging performance.
- Measuring battery behavior under load conditions.
- Ensuring compatibility with the vehicle's power system.

2. Equipment & Components

Component	Model/Specification	Description
Battery	Zeee 7200mAh LiPo	LiPo, 7.4V 7200mAh
Charger	iMax B6 80W LiPo Balance Charger	Supports LiPo, 80W

3. Testing Procedure

3.1 Battery Inspection

- Checked for physical damage (swelling, leakage, broken connectors).
Observation: No physical damage detected.
- Measured battery voltage before charging.

3.2 Charging Process

1. Connected the charger to a power source.
2. Set charging parameters (battery type, voltage, current).
3. Connected the battery and initiated charging.
4. Monitored the charging process (temperature, charge time).
5. Verified that the battery reached full charge without issues.

3.3 Load Testing

- Discharged the battery under controlled conditions.
- Measured voltage drop and current draw.
- Ensured the battery maintained stable output within safe limits.

3.4 Connection to Car

- Attempted to connect the battery to the vehicle.
 - **Observation:** The battery connector differs from the car body connector, requiring a replacement connector.
-

4. Test Results & Observations

- Charging time and efficiency were satisfactory.
- Battery performed well under load.

- No malfunctions or critical issues were observed.
 - The main issue encountered was the incompatibility of the battery connector with the car body, necessitating a new connector for proper integration.
-

5. Safety Guidelines & Best Practices

- Always charge in a fireproof area.
 - Do not overcharge or discharge below safe limits.
 - Ensure proper polarity and secure connections.
 - Store batteries at recommended voltage levels when not in use.
-

6. Conclusion & Recommendations

- The battery and charger performed as expected with no faults.
- The main issue identified was the mismatch between the battery and car body connectors.
- **Recommendation:** Purchase and replace the connector to ensure compatibility.
- Consider future upgrades or alternative battery models with pre-matching connectors to avoid similar issues.