

## Voltchain

# Battery Aadhaar Platform

Revolutionary blockchain-powered battery lifecycle management for India's EV ecosystem. Track, verify, and optimize every battery from manufacturing to recycling.

[Register New Battery](#)

Blockchain Verified



Real-time Monitoring



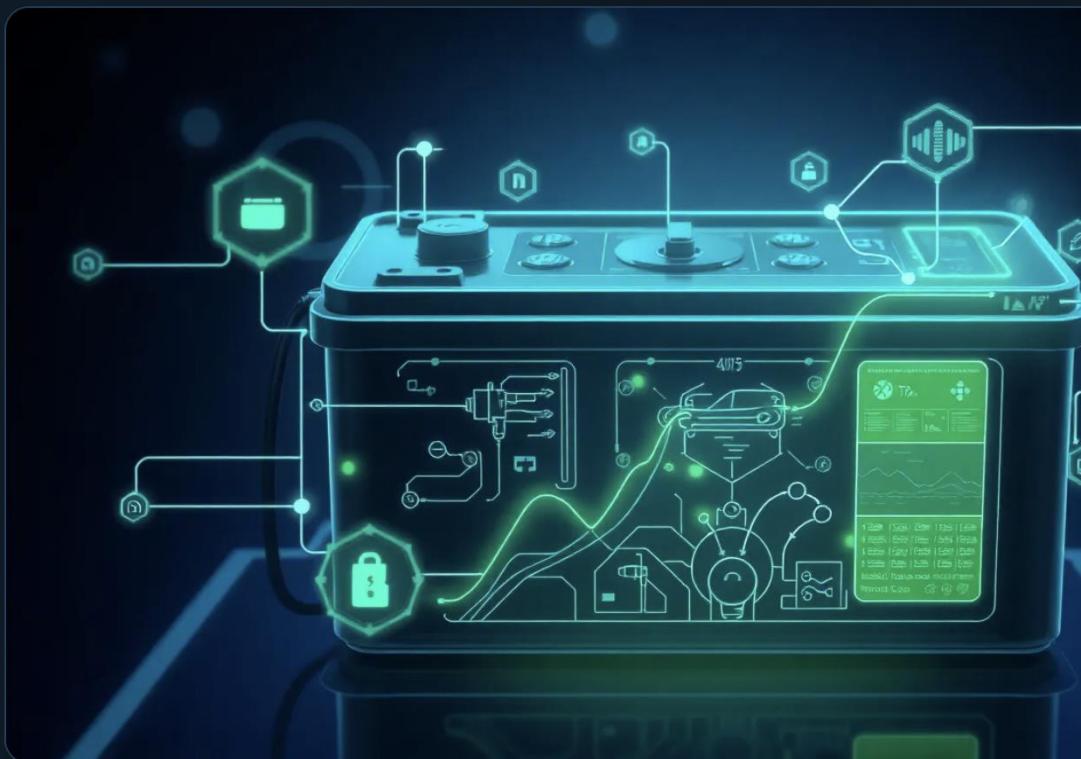
Performance Analytics



Complete Lifecycle

 x  ZENFINITY  
ENERGY

India's First Blockchain-Enabled Battery Passport



## PASSPORT ID

Passport ID: WkwyQUVFODVBMDgINDA2

Verified

Model Number

**A1**

Serial Number

**ZL2AEE85A085406**

Category

**EV**

Weight

**45.00kg**

Status

**• Original**

Manufactured by

**Zenfinity Energy Pvt Ltd**

Manufacturing Date

**9/25/2025****Overview****Material Composition****Performance****Circularity****Emissions**

Battery Serial Number

**ZL2AEE85A085406**

Battery Model

**A1**

Manufacturer

**Zen energy**

Configuration

**16s1p**

Capacity(Ah)

**100 Ah**

Cell Type

**100ah-LFP**

Bms Serial Number

**BGONGD8UFF00117**

Iot Serial Number

**865044073949366**

Date Created

**25/9/2025, 5:15:54 PM**

MATERIAL COMPOSITION

.....

\*Breakdown of all materials used in this battery

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Overview

Material Composition

Performance

Circularity

Emissions

V

Cell Cathode Material

**LiFePO4**

Cathode Current Collector

**Aluminum**

Electrolyte Solvent

**EC**

Cell Anode Material

**Graphite**

Anode Current Collector

**Copper**

Separator

**Polymer**

Electrolyte Salt

**LiPF6**

Binder

**PVDF**

Cell Casing

**Steel**

MATERIAL COMPOSITION

.....

\*Breakdown of all materials used in this battery

## Performance Dashboard

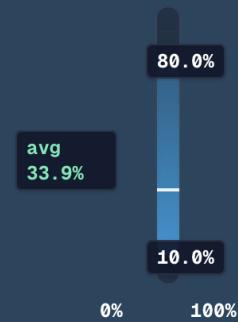
EI: 865044073949366

CYCLE 38 / 38

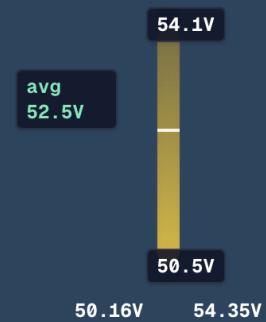
 38

## State &amp; Voltage Spread

SOC RANGE



VOLTAGE RANGE



## Summary

CYCLE  
**38**

DATA PTS  
**1002**

DISTANCE  
**82.7 km**

WARN  
**0**

PROTECT  
**0**

AVG TEMP  
**32.5°C**

SOH DROP  
**0.00**

MIN SOC  
**10**

MAX SOC  
**80**

MIN SOH  
**100**

MAX SOH  
**100**

AVG SOH  
**100**

CHARGES  
**3**

AVG SPEED  
**12.3 km/h**

MAX SPEED  
**73 km/h**

## Electrical Stats

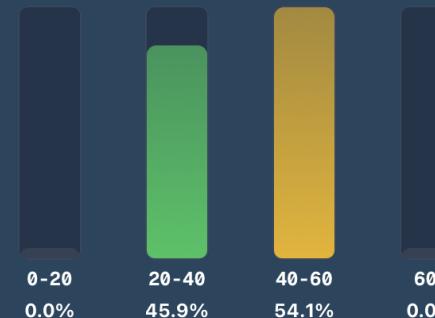
V AVG  
52.49

V MIN  
50.452

V MAX  
54.063

I AVG  
5.34

## Temperature Distribution



Total: 6599.9h

Max Bucket: 3573.6h

## Alerts & Events

Warnings: 0 Protections: 0

### Warnings

None

### Protections

None

## Raw Snapshot (JSON)

```
{  
    "imei": "865044073949366",  
    "cycleNumber": 38,  
    "cycleStartTime": "2025-12-11T10:25:00+00:00",  
    "cycleEndTime": "2026-09-12T10:20:00+00:00",  
    "cycleDurationHours": 6599.916666666667,  
    "createdAt": "2025-10-08T11:44:06.765940+00:00",  
    "timestamp": "2026-09-12T10:20:00+00:00",  
    "dataPointsCount": 1002,  
    "sohDrop": 0,  
    "averageSoc": 33.874251497005986,  
    "averageTemperature": 32.50898203592814,  
    "lastUpdate": "2026-09-12T10:20:00+00:00",  
    "batteryLevel": 100,  
    "chargeStatus": "Charging",  
    "voltage": 52.49,  
    "current": 5.34,  
    "temperature": 35.736  
}
```

## MODULARITY

7.8/10

Design score

## SWAP TIME

14 min

Module

## SPECIAL TOOLS

No

Accessibility

## FLEET SOH

92%

Avg current

## 2ND LIFE CANDIDATES

74%

Modules

## SOH THRESHOLD

80%

Reuse gate

## DISASSEMBLY STEPS

8

To module

## FASTENERS

24

Count

## Recycled Content (Actual vs Legislative Targets)

Lithium	10% / 12%
Copper	11% / 12%
Aluminium	22% / 15%
Iron	35% / 50%
Plastics	12% / 25%

Targets reflect indicative minimum post-consumer recycled content (dummy values for illustration).

## Recovery Efficiency (Closed-loop Potential)

Lithium	93% / 90%
Copper	92% / 90%
Graphite	76% / 70%
Iron	95% / 95%
Aluminium	68% / 65%

Process recovery efficiency vs near-term targets (dummy data).

## Critical Raw Materials &amp; Sourcing

Lithium	Chile (brine)	Tier 3 validated	Medium
Iron	Industrial	Tier 2 & ASM screened	High
Phosphate	Industrial	Tier 2	Medium
Copper	South Africa	Tier 2	Low
Graphite	China (synthetic)	Tier 2	Medium

Risk classification aligns with internal due-diligence rubric (illustrative).