

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



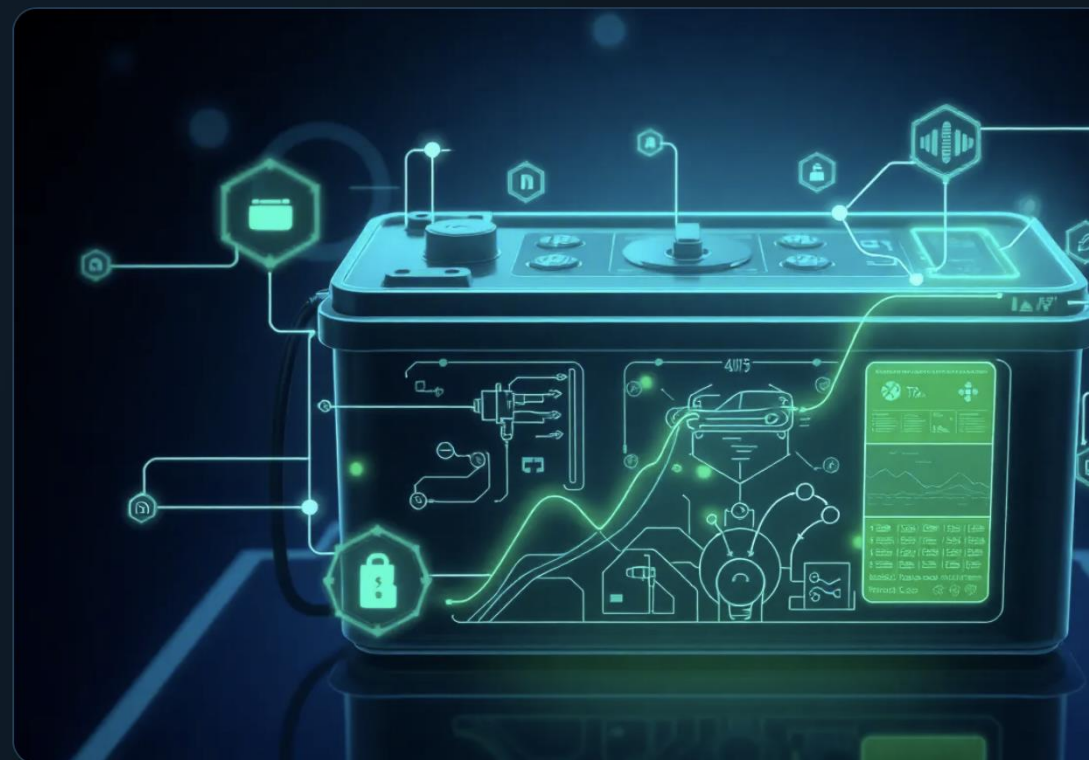
Real-time Monitoring



Performance Analytics



Complete Lifecycle

**India's First Blockchain-Enabled Battery Passport**

PASSPORT ID

Passport ID: WkwyQUVFODVBMDg1NDA2

Verify

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 Modal

A1

Manufacturer

Zen energy

Configuration

16s1p

Capacity(Ah)

100 Ah

Cell Type

100ah-LFP

Bms Serial Number

BGONGD8UFF00117

lot 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

Cell Anode Material

Graphite

Electrolyte Salt

LiPF6

Cathode Current Collector

Aluminum

Anode Current Collector

Copper

Binder

PVDF

Electrolyte Solvent

EC

Separator

Polymer

Cell Casing

Steel

MATERIAL COMPOSITION

.....

*Breakdown of all materials used in this battery

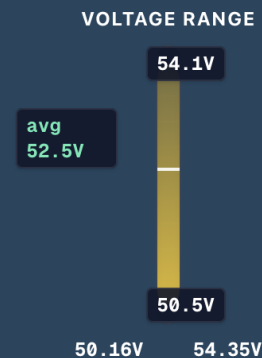
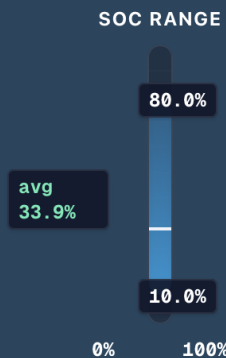
Performance Dashboard

IEI: 865044073949366

CYCLE 38 / 38



State & Voltage Spread



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

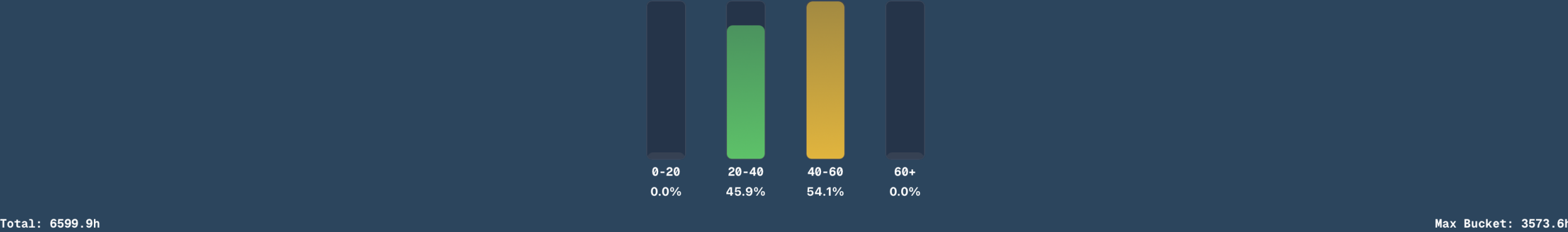
V AVG
52.49

V MIN
50.452

V MAX
54.063

I AVG
5.34

Temperature Distribution



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,
  "status": "Normal",
  "batteryLevel": 33.874251497005986,
  "batteryTemperature": 32.50898203592814,
  "voltage": 52.49,
  "current": 5.34,
  "power": 278.11,
  "energy": 1934.5,
  "cycleCount": 38,
  "health": "Good",
  "error": null,
  "warnings": [],
  "protections": []
}
```

Circularity & Resource Efficiency

EU Battery Regulation (dummy illustrative data)

Conformity: Yes

Passport ID: WkwyQUVFODVBMHVuZGVmaW5lZA==

Chemistry: LFP (LiFePO4)

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)



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

Recovery Efficiency (Closed-loop Potential)



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

Critical Raw Materials & 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).

Repairability & Design for Circularity

Second Life Suitability