

# Power AI System Analysis

## Executive Summary Report

Generated: July 03, 2025 at 22:58

### □ **SYSTEM OVERVIEW**

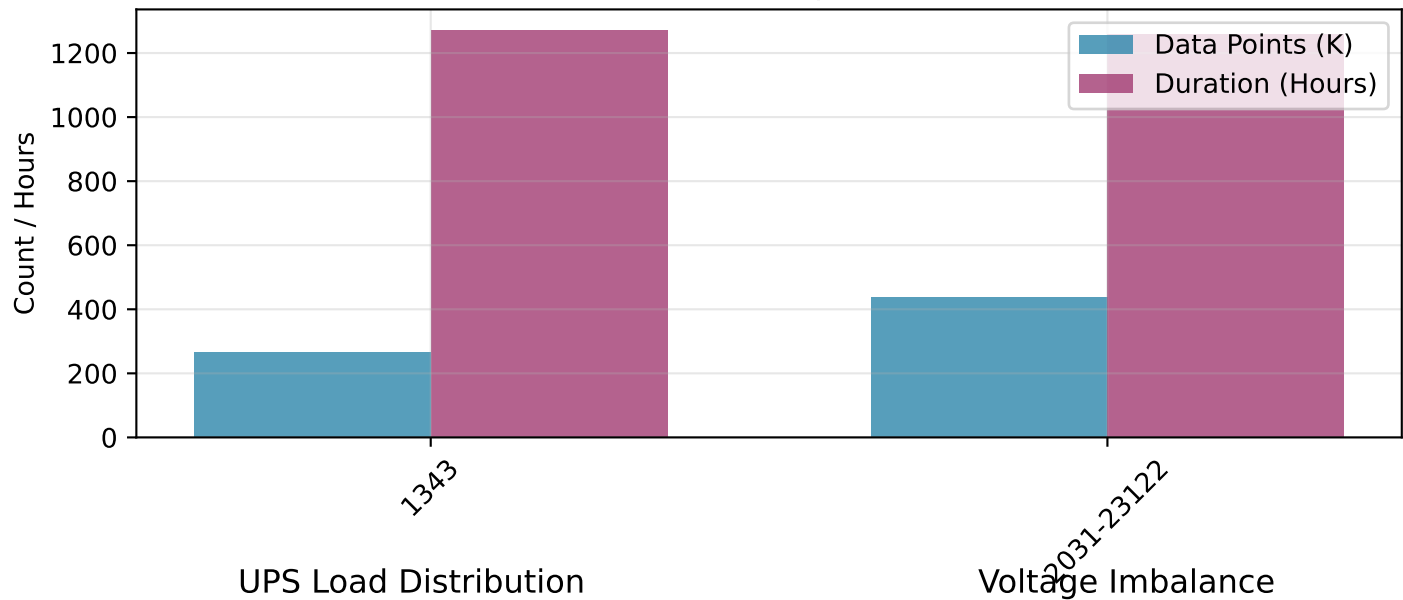
- Datasets Analyzed: 2
- Total Data Points: 704,248
- Components: UPS, Energy Meters (2), PDU Channels (8)

### ⚡ **KEY FINDINGS**

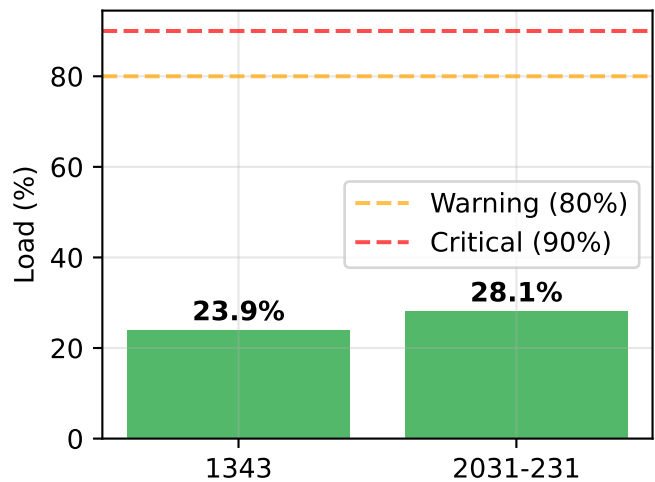
- Average UPS Load: 26.0%
- Data Quality Score: 100.0%

# System Overview & Performance

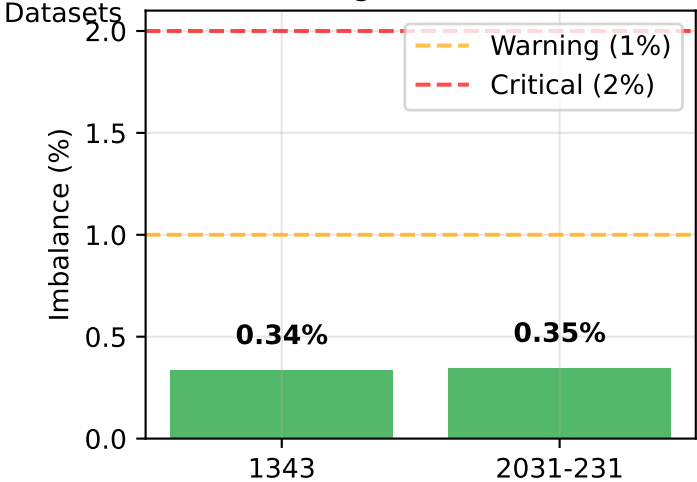
Dataset Comparison



UPS Load Distribution



Voltage Imbalance

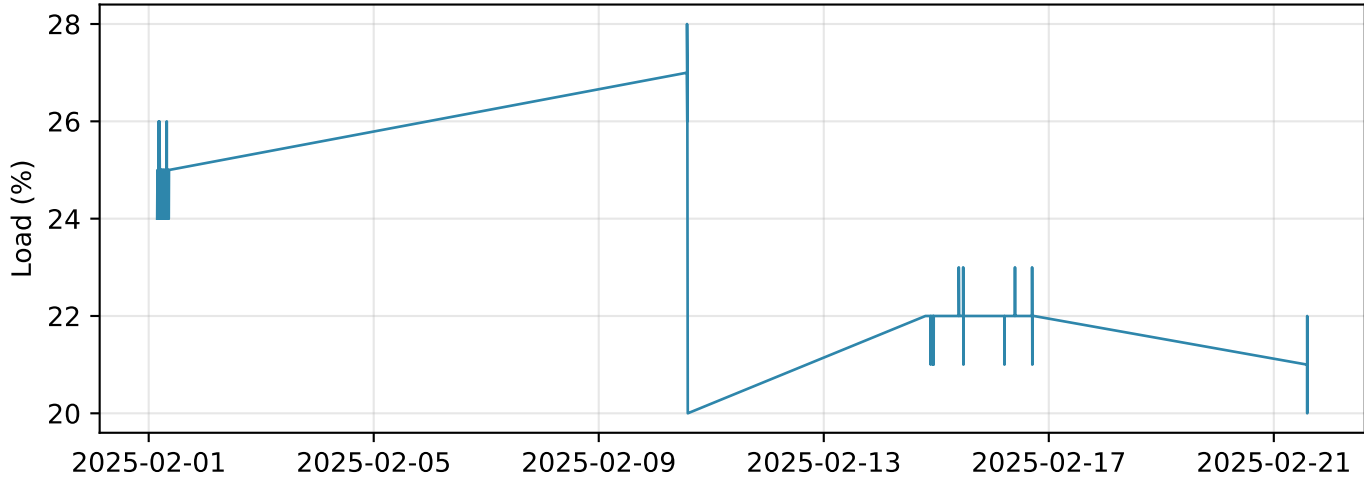


## System Health Dashboard

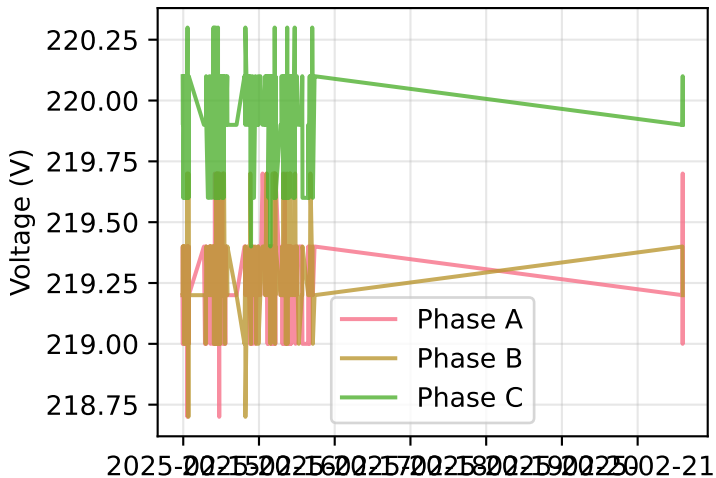


# Detailed Power System Analysis

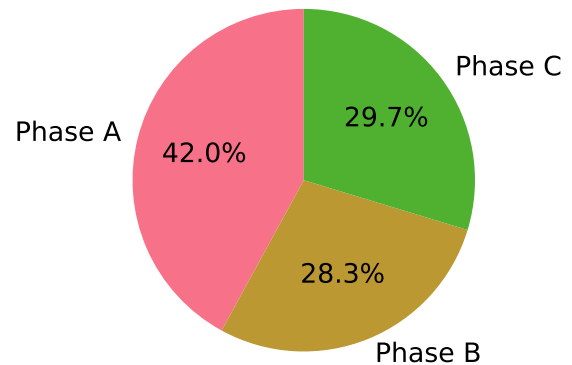
## UPS Load Over Time (Sample)



## Three-Phase Voltage

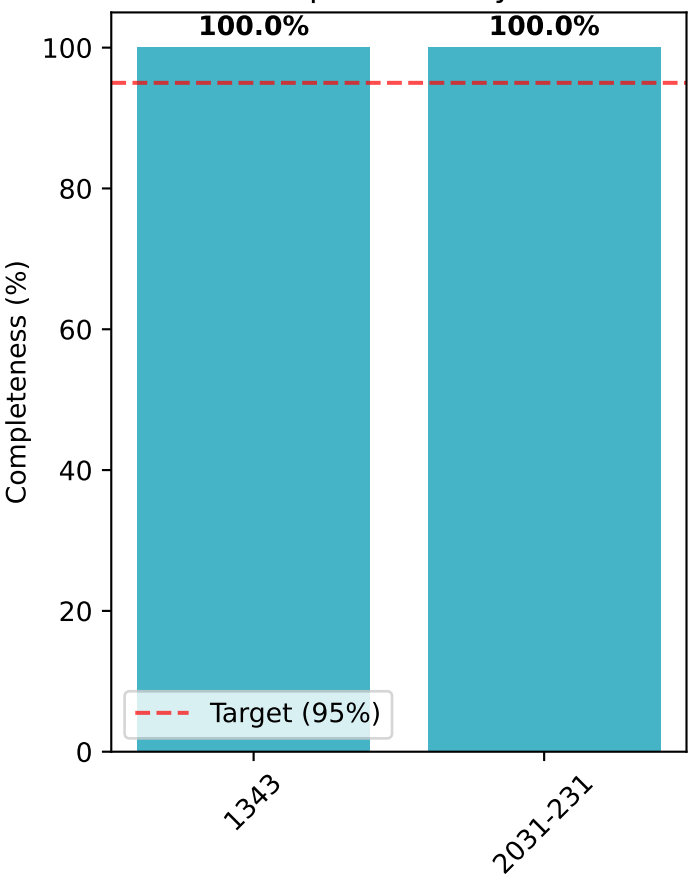


## Power Distribution by Phase

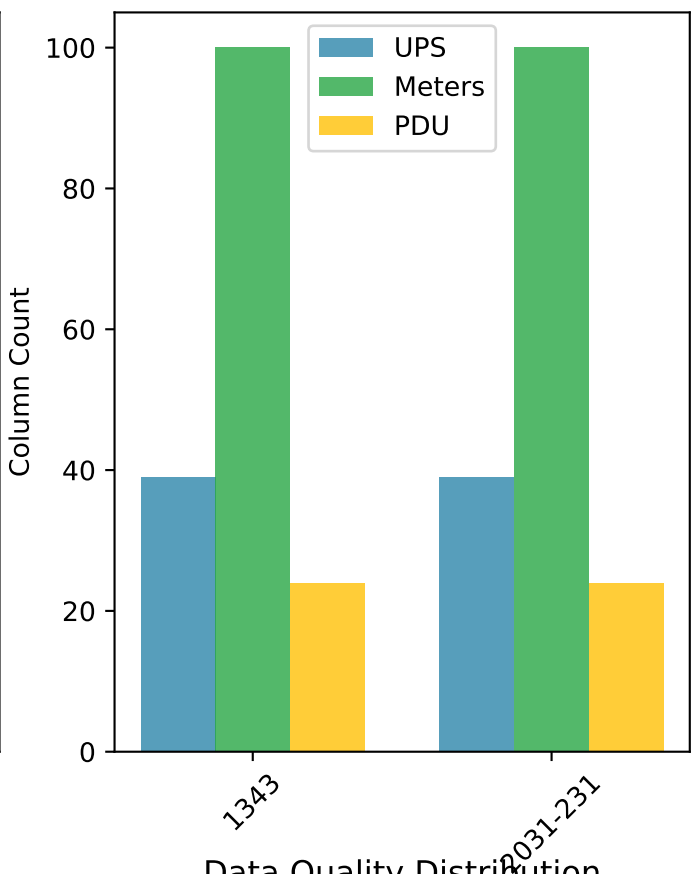


# Data Quality Assessment

### Data Completeness by Dataset



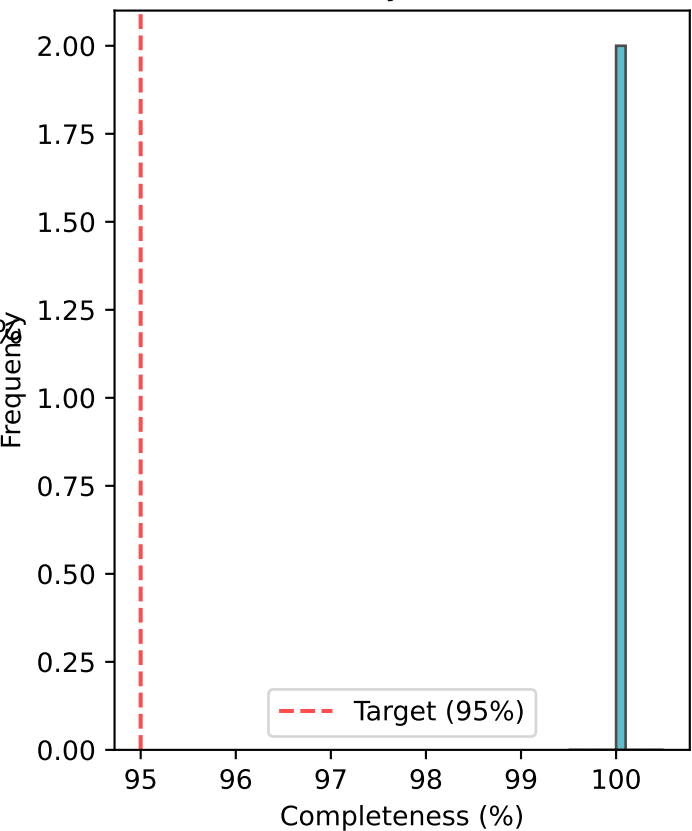
### Data Column Distribution



## Data Quality Summary

- Total Rows Analyzed: 60,000
- Average Completeness: 100.0%
- Total Missing Values: 0
- Datasets Processed: 2

### Data Quality Distribution



# Recommendations & Action Items

## General Recommendations

1. Implement continuous monitoring of power quality metrics
2. Establish regular maintenance schedules based on load patterns
3. Consider predictive analytics for proactive system management
4. Develop alerting systems for critical parameter thresholds
5. Regular review of system performance against baseline metrics