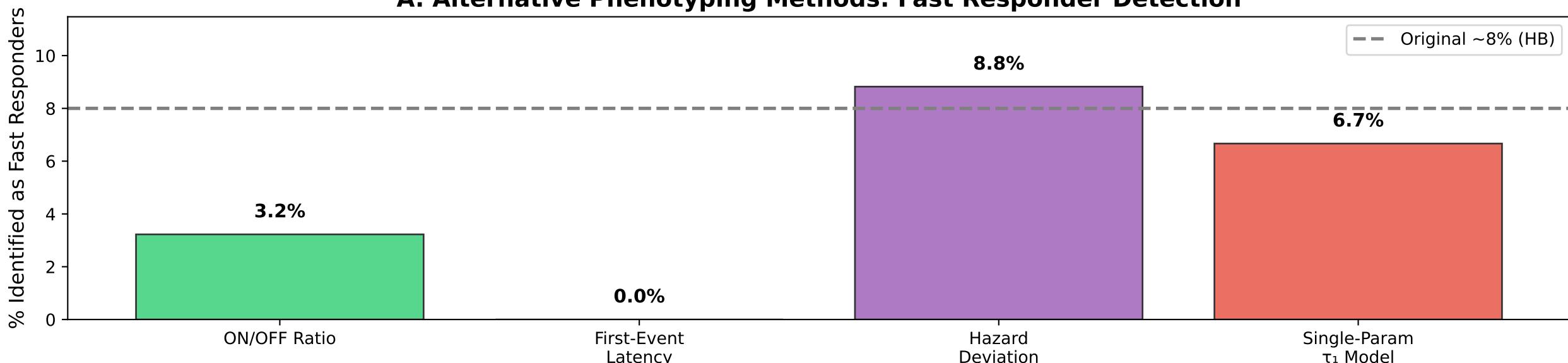
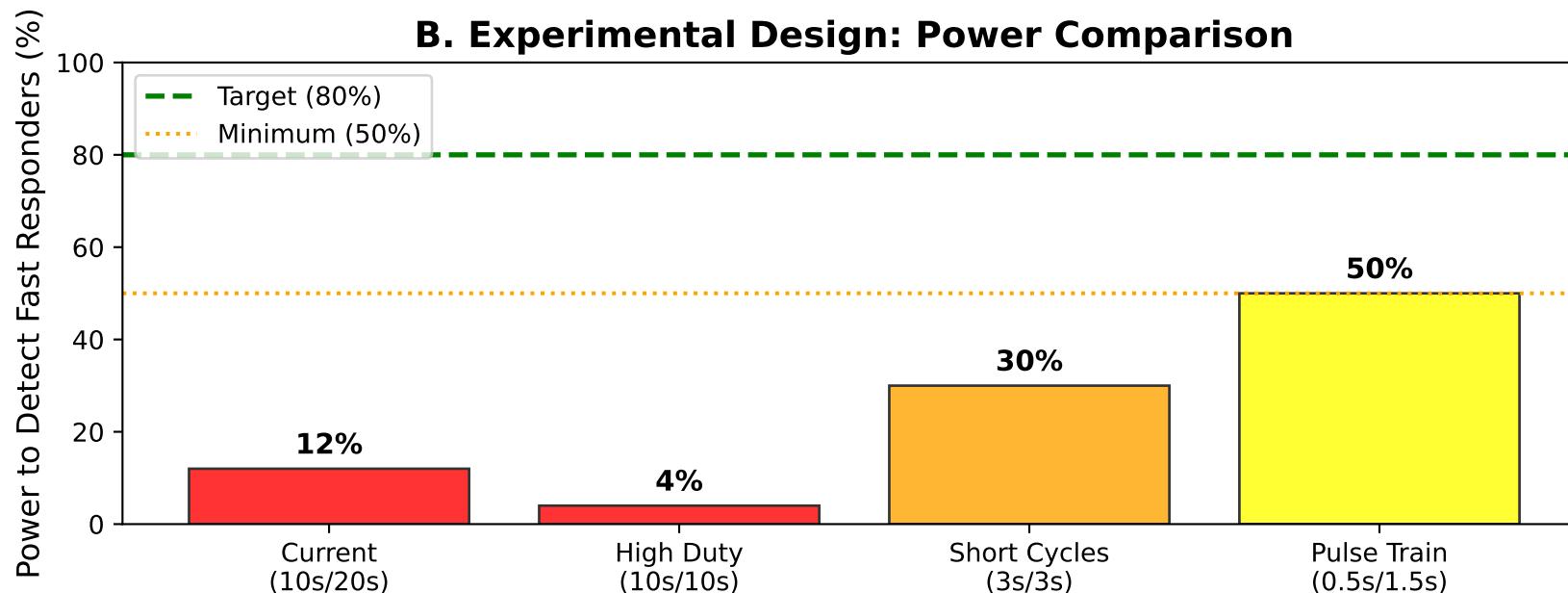


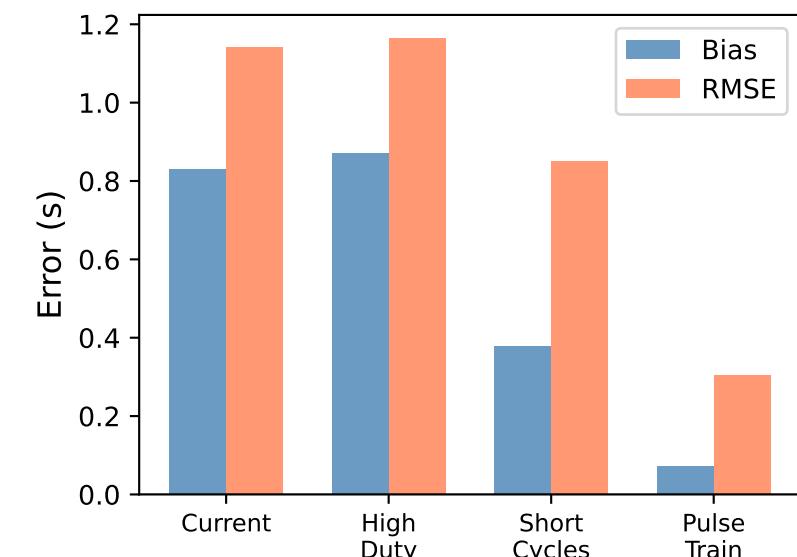
A. Alternative Phenotyping Methods: Fast Responder Detection



B. Experimental Design: Power Comparison



C. τ_1 Estimation Error



D. Summary of Findings

| Analysis | Key Finding | Implication |
|-----------------------|---------------------------|---|
| ON/OFF Ratio | Mean ratio = 1.33 (>1) | Events MORE frequent during LED-ON |
| First-Event Latency | Median = 4.7s | Mid-window latency, no clear outliers |
| Hazard Deviation | 8.8% early responders | Timing shift identifies fast responders |
| Single-Param τ_1 | 6.7% fast, 23.3% slow | Significant with simplified model |
| Design: Pulse Train | Power = 50%, RMSE = 0.31s | Recommended for future experiments |