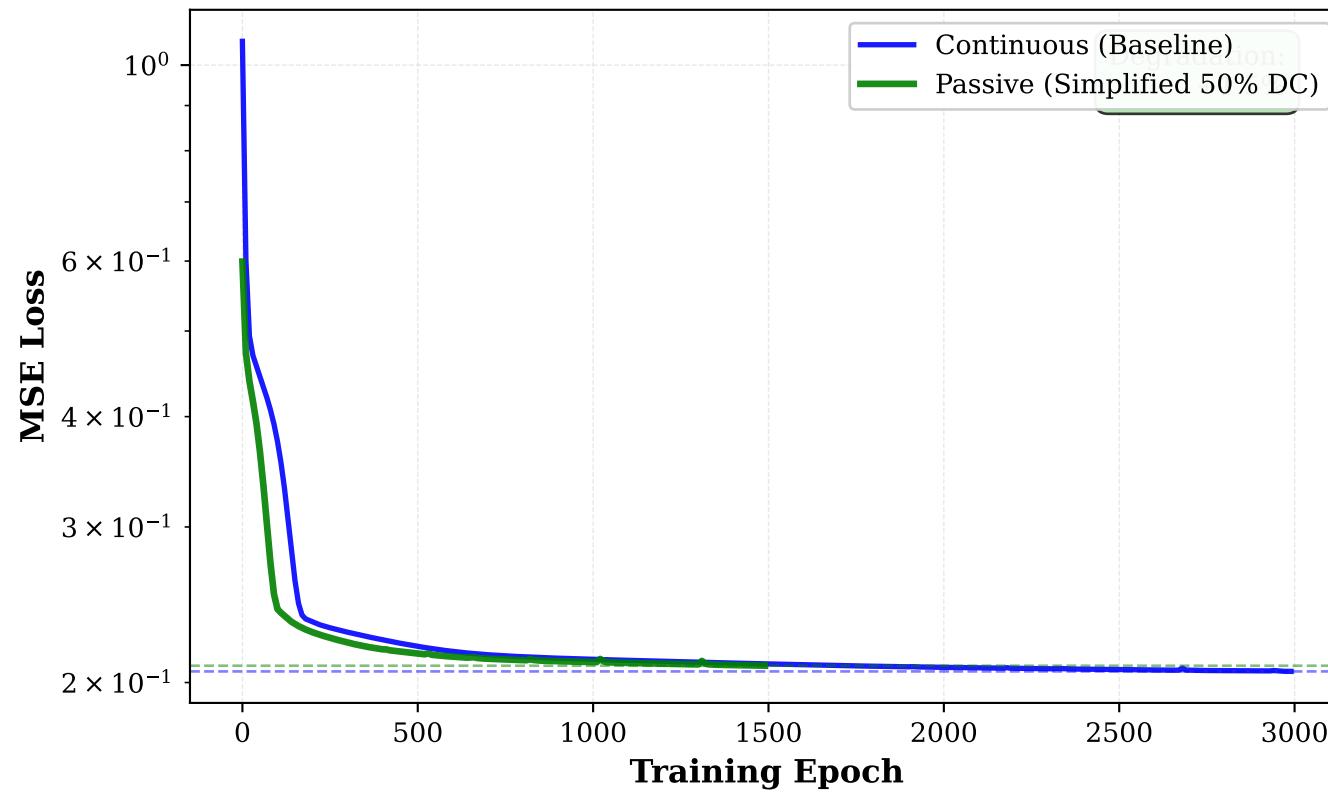


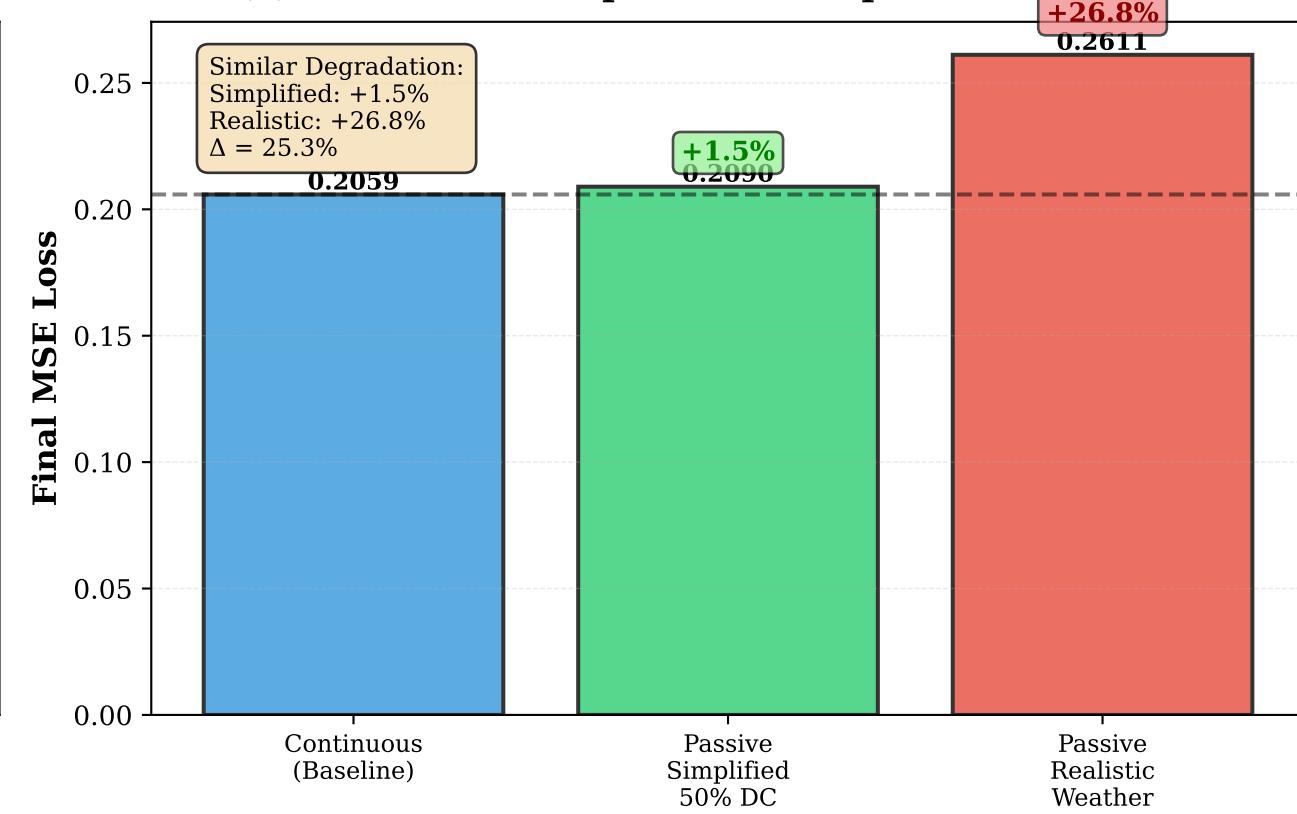
# Performance Under Realistic Weather-Dependent Solar Patterns

## Burgers PDE Training - Simplified vs Realistic Solar Models

(a) Training Convergence - Simplified Model



(b) Final Loss Comparison - Simplified vs Realistic



Validation that simplified 50% duty cycle model approximates realistic solar conditions. Both achieve similar degradation, confirming findings generalize beyond idealized conditions. Realistic model uses three-state Markov chain (Sunny/Cloudy/Night) with stochastic transitions.