Monte Carlo Uncertainty Quantification (N=100 paths)

Uncertainty Model:\nOrnstein-Uhlenbeck\nprocess for power\nfluctuations

TTE Statistics (hours):\nMean: 0.69 ± 0.04\n5th %ile: 0.64\n95th %ile: 0.76\nRange: [0.64, 0.76]\nCoefficient of Variation: 5.9%

Legend:
- 90% Confidence Band
- Mean Trajectory
- Mean ± 1σ
- Cutoff (5%)

X-axis: Time (hours)
Y-axis: State of Charge (%)