

Data info

1. GES_parameter.mat

Matrix Name	Matrix Size	Meaning
Pchmax	100x1	Max charge power
Pdismax	100x1	Max discharge power
SOCmaxup	100x24	Real-time upper SOC boundary
SOCmindown	100x24	Real-time lower SOC boundary
stateprobability	100x24	On-state probability
beita	100x24	Energy losses from user environment
ebuxiu	100x1	Self-discharge rate
S	100x1	Capacity
SOC_0	100x1	Initial SOC
T	1x1	Whole dispatch time period
N_GES	1x1	Number of GES units
Cyita	100x1	Thermal capacity of TCL
yitaR	100x1	Thermal resistance of TCL
Tout	1x24	Forecast ambient temperature
Tinmax	100x24	Real-time maximum setpoint temperature
Tinmin	100x24	Real-time minimum setpoint temperature
Tinmaxmax	100x1	Maximum indoor temperature
Tinminmin	100x1	Minimum indoor temperature
Tset_0	100x1	Initial setpoint temperature
Tout_0	100x1	Initial ambient temperature
Pmax	100x1	Maximum power of TCL
Pmin	100x1	Minimum power of TCL
yitach	100x1	Charge efficiency of TCL
yitadis	100x1	Discharge efficiency of TCL

Visualization of some parameters

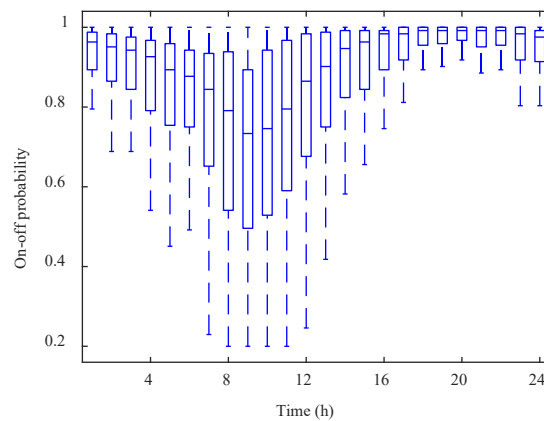


Fig. 1. Boxplot of on-off probability

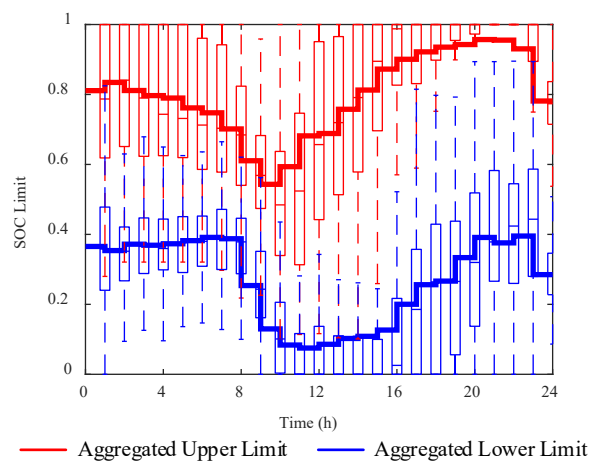


Fig. 2. Boxplot of SOC Limits