

Parameter	Symbol	Value
Rate model		
Excitatory time constant	τ_E	0.1 s
Inhibitory time constant	τ_I	0.8 s
Connectivity matrix		
	J_{EE}	5.0 s^{-1}
	J_{IE}	2.0 s^{-1}
	J_{II}	-0.8 s^{-1}
	J_{EI}^{weak}	-0.0 s^{-1}
	J_{EI}^{strong}	-1.6 s^{-1}
Noise amplitude	η	$0.25 \text{ s}^{-1/2}$
External input		
	H_E	3.5 s^{-2}
	H_I	0.4 s^{-2}
External drive increase	α	3.0
Twitch amplitude		
	J_E	50.0 s^{-2}
	J_I	100.0 s^{-2}
LIF model		
Exc. synapse time constant	τ_E	100.0 ms
Inh. synapse time constant	τ_I	800.0 ms
Membrane time constant	τ_m	20.0 ms
Threshold potential	V_{thr}	20.0 mV
Reset potential	V_{reset}	0.0 mV
Connectivity		
Nb. of excitatory neurons	N_E	1024
Nb. of inhibitory neurons	N_I	256
Connections from exc. neurons	K_E	64
Connections from inh. neurons	K_I	32
Connectivity matrix		
	J_{EE}	0.025 mV
	J_{IE}	0.1 mV
	J_{II}	-0.0 mV
	J_{EI}^{weak}	-0.0005 mV
	J_{EI}^{strong}	-0.005 mV
Noise amplitude	η	$1.8 \text{ ms}^{-1/2}$
External input (weak inhibition)		
	H_E	-0.07 mV ms^{-1}
	H_I	0.015 mV ms^{-1}
External input (strong inhibition)		
	H_E	0.04 mV ms^{-1}
	H_I	0.06 mV ms^{-1}
Twitch amplitude		
	J_E	0.2 mV ms^{-1}
	J_I	0.2 mV ms^{-1}
Twitch duration (lognormal)		
Mean parameter	μ	-0.2
Std parameter	σ	0.8