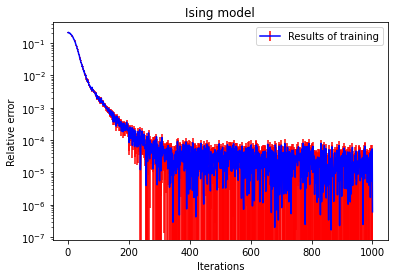
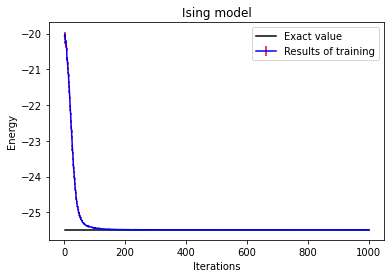
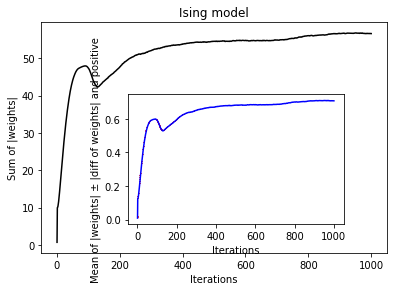
Considering the operator: {'Ising1dSymmetric': {'Jz': 1.0, 'hfield': 1.0, 'pbc': 1}}

Using the sampler: {'MetropolisHastings': {'nflips': 1, 'nmoves': 200000, 'nsweeps': 10000, 'sweepfactor': 1.0, 'thermfactor': 0.1}}

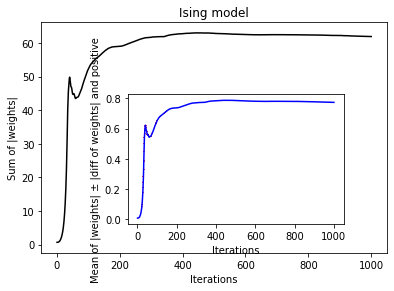
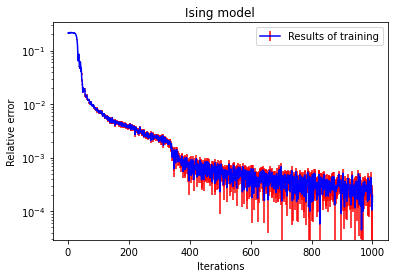
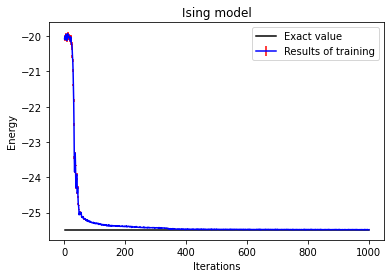
Using the optimizer: {'SGD': {'learning\_rate': 0.01, 'schedule\_multiplier': 'fixed', 'SR': {'lambd0': 100.0, 'b': 0.9, 'lambdMin': 0.0001}, 'L2': {'L2\_factor': 0.0001}}}



Considering the operator: {'Ising1dSymmetric': {'Jz': 1.0, 'hfield': 1.0, 'pbc': 1}}

Using the sampler: {'MetropolisHastings': {'nflips': 1, 'nmoves': 200000, 'nsweeps': 10000, 'sweepfactor': 1.0, 'thermfactor': 0.1}}

Using the optimizer: {**'Momentum'**: {'learning\_rate': 0.01, 'schedule\_multiplier': 'fixed', 'momentum\_factor': 0.9, **'SR': False**, 'L2': {'L2\_factor': 0.0001}}}



Considering the operator: {'Ising1dSymmetric': {'Jz': 1.0, 'hfield': 1.0, 'pbc': 1}}

Using the sampler: {'MetropolisHastings': {'nflips': 1, 'nmoves': 200000, 'nsweeps': 10000, 'sweepfactor': 1.0, 'thermfactor': 0.1}}

Using the optimizer: {**'Adam'**: {'learning\_rate': 0.01, 'schedule\_multiplier': 'fixed', 'first\_momentum\_factor': 0.9, 'second\_momentum\_factor': 0.999, 'SR': False, 'L2': {'L2\_factor': 0.0001}}}

