

## Comparative Analysis Report: 300K vs 1000K Training Metrics

### Section 1: 300K vs 1000K at 100 Epochs

Metric	300K	1000K
Runtime	1131.12 seconds	5095.62 seconds
Training e/N MAE	0.00321	0.02768
Training e MAE	0.3085	2.6569
Training f MAE	0.0364	0.1653
Training f RMSE	0.0488	0.2533
Training Loss	0.00535	0.04941
Validation e/N MAE	0.00045	0.01906
Validation f MAE	0.0327	0.1494
Validation Loss	0.00438	0.04254

### Section 2: 300K vs 1000K at 1000 Epochs

Metric	300K (1000 Epochs)	1000K (975 Epochs)
Runtime	8330.57 seconds	8062.06 seconds
Training e/N MAE	0.00162	0.01627
Training e MAE	0.1554	1.5616
Training f MAE	0.02685	0.1208
Training f RMSE	0.0357	0.1866
Training Loss	0.00285	0.02659
Validation e/N MAE	0.0005652	0.01627
Validation f MAE	0.02483	0.1236
Validation Loss	0.00247	0.03265