

Total windows: 146 Feature dim: 45  
Class counts: {np.str\_('circle'): np.int64(32), np.str\_('pendulum'): np.int64(30), np.str\_('x a  
Stopped at epoch=120; best epoch=120, best val logloss=0.0343

=== Test Metrics (Macro Avg) ===

Accuracy : 1.0  
Precision: 1.0  
Recall : 1.0  
F1-score : 1.0

Confusion matrix (rows=true, cols=pred):

	pred_circle	pred_pendulum	...	pred_y axis	pred_z axis
true_circle	7	0	...	0	0
true_pendulum	0	6	...	0	0
true_x axis	0	0	...	0	0
true_y axis	0	0	...	5	0
true_z axis	0	0	...	0	6

[5 rows x 5 columns]

Saved figures:

- roc\_auc\_mlpBP\_test.png
- logloss\_mlpBP\_epochs.png
- mlpBP\_architecture\_mlpBP.png
- first\_layer\_weights\_mlpBP.png

Process finished with exit code 0