Functional test

# Open-loop

**Buck test**

1. Setup PV-simulator with a low .
2. Connect a load at approximate .
3. Switch M1 with different duty cycles and note the results.
4. Compare with simulations.

**Boost test**

1. Switch M3 and M4 with different duty cycles and note the results.
2. Compare with simulations.

Capture graphs of steady state conditions, voltage and current ripples

Redo the open-loop test with a higher .

# MPPT-test

1. Connect a load at approximate .
   1. The system should run in buck-mode.
2. Note the point of a stable input which should be the MPP of the PV-simulator.
3. Change the load and do the test again.
4. Compare the results with simulation.

Redo the test with a higher .