1 High Power Lab

High power testing of electrical components and installations

- Tests laboratory designed for conducting 1, 2 or 3-phased short-circuit tests; with short-circuit currents up to 50 kA in 1 second
- Supply voltage up to 3 x 690 V
- Measurement at very high accuracy in multiple channels
- Test of large equipment objects up to 4 m x 4 m

Applications

Testing of High Power components and infrastructure as:
- Switch boards
- Breakers
- Protection relays
- Cables
- Measurement Equipment
- Transformers

TEST AGAINST STANDARDS:
PowerLabDK facilities are suitable for R&D related tests of electrical power components and systems against a wide range of relevant standards, including IEC and CENELEC standards.

PowerLabDK secretariat  
Technical University of Denmark | Elektrovej 325 | DK-2800 Kgs. Lyngby

PowerLabDK partners

Technical University of Denmark
High Power Lab

Tests laboratory designed for conducting 1, 2 or 3-phased short-circuit tests; with short-circuit currents up to 50 kA in 1 second.

The high-power laboratory at DTU Diplom, Ballerup Campus, is designed for conducting various short-circuit-tests. From a 10 kV main supply, the high-power laboratory is supplied through two parallel transformers, to a short-circuit supply up to 3 X 690 V.

Measurements of voltages and currents are possible at very high accuracy and in many channels. The short-circuit currents are obtained by Rogowski coils and digital integrators.

The high-power laboratory building is specially designed and secured with the purpose to resist the effects and make it secure when completing high current and high power testing.

Some specific experiments in the high-power laboratory could be testing switchboards, breakers (protection relays), cables, measurement equipment etc.

Equipment up to 4 m x 4 m x 4 m can be brought into to the laboratory for testing. Even larger equipment can be tested if built up inside the laboratory.