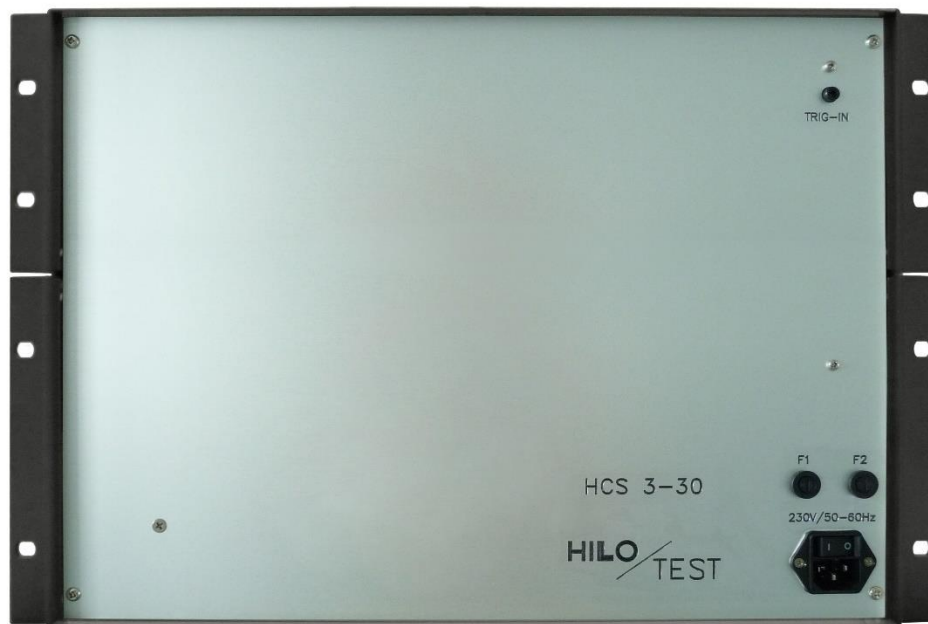


CAPACITOR DISCHARGE TEST SETUP



- **Loading voltage 3kV**
- **Current amplitude 2 x 15 kA**
- **Optical impulse trigger**

The surge current test setup is used for HCS3-30 surge current testing of capacitor windings. The tested capacitor is an adjustable voltage, 0.05 - 3000 V charged and then discharged through a triggerable switch.

The capacitor discharge test setup essentially consists of an electronically controlled high-voltage charger (additional device), a high voltage triggerable switch trigger pulse amplifier and a current measuring device.

Technical specification	HCS 3-30
max. allowable charging voltage	3.0 kV \pm 2%
Polarity of the charging voltage	positive
Loading resistor: 15 * 10 Ω -65W	build-in
Max. current amplitude, for one switch	max. 15 kA
Max. current amplitude, for both switches in parallel	max. 30 kA
Max. charging transfer over the switch	2.0 As
Impulse current resistor for detecting the discharge current	2 * 1 m Ω , 10 kA
Impulse output:	High current connectors, at the rear site
Attention! The high current outputs are not touch proof isolated! The device may be operated only in installed condition, where the high current outputs are touch proof covered and protected against touch!	
Impulse trigger: 0/10V, optical converter, light guide input	build in
Ignition booster: appr. 6 * 2.5A/0.5A, 100 μ s	build in
High current switch: 2 * 3 Thyristors	build in
Power supply	230 V / 50-60 Hz
Dimension: 19"-case	553*470*600 mm ³
Wight	35kg

The control of HCS 3 and the HV loading device is not included in this test set up.

Because it is not possible to build in a pulse current limiters in the devise, we don't can assume any life time warranty for the thyristors and free wheeling diodes.