

# DIELECTRIC STRENGTH TESTER

## DEFINITION

A DIELECTRIC STRENGTH TESTER PROVIDES A HIGH VOLTAGE TEST IN ORDER TO CHECK THE QUALITY OR SOME CURRENT LIMITS DEFINED IN THE INTERNATIONAL STANDARDS

This high voltage test (also called dielectric strength test, hipot test, hi-pot test, breakdown test or flash test) is made to stress the device under test with an AC or DC high voltage and check that there is no breakdown nor perforation happening. It also checks that insulation distances and distances in the air are respected

## APPLICATION

MANUFACTURER, LABORATORY, HIGH SPEED PRODUCTION, MAINTENANCE, IN ORDER TO COMPLY WITH QUALITY STANDARDS

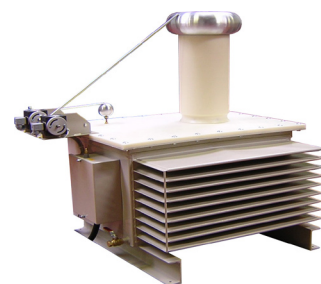


- ▶ cable manufacturer, switchgear industry, bus bar, batteries, ...
- ▶ electronic component (capacitor, transistor, electronic boards, IGBT, relays, ...)
- ▶ household manufacturer (washing machines, coffee machines, fridges, heaters, boilers, ovens, ...)
- ▶ industrial equipment (compressor, electrical tools, ...)
- ▶ lighting industry (street lights, professional lighting, medical lighting, bulbs, ...)
- ▶ information technology industry (modems, satellite receivers, servers, printers, cash dispensers, ...)
- ▶ test houses, certification laboratories (electrical meters, components, insulated materials, such as plastic, ceramic, textile, ...)
- ▶ railway industry (train power line, electrical cabinets, cabling, ...)
- ▶ transformers, coils, electric engines, ...

## SPECIFICATION OVERVIEW

FROM LABORATORY TO PRODUCTION TESTING, OUR RANGE COVERS THE FOLLOWING SPECIFICATIONS

- ▶ hipot test up to 400kV AC and DC
- ▶ wide range of safety cages and accessories
- ▶ hipot test with our "delta I" exclusive detection type for non destructive testing
- ▶ possible destructive hipot testing (for investigation and laboratory use), but also hipot test at operating temperature
- ▶ GPIB, RS232, Ethernet, 0-10V, PLC available
- ▶ SXS PRO software for quality purposes, traceability and professional reporting



## SELECTOR GUIDE

From the below board select the right product according to your application

Sefelec hipot tester range	AC Dielectric strength test (hipot test)	DC Dielectric strength test (hipot test)	Current	Detection type	Interface	Software (in option)
PREMIER 2705A	5kV	No	40mA AC	Delta I+Imax	RS232 in option	No
PREMIER 2715A	5kV	6kV	40mA AC 10mA DC	Delta I+Imax	RS232 in option	No
RXS50	5kV	No	10mA AC	Delta I+Imax	RS232 included GPIB, PLC, Ethernet in option	SXSPRO
RXS56	5kV	6kV	10mA AC 4mA DC	Delta I+Imax	RS232 included GPIB, PLC, Ethernet in option	SXSPRO
RXS500	5kV	No	110mA AC	Delta I+Imax	RS232 included GPIB, PLC, Ethernet in option	SXSPRO
RXS506	5kV	6kV	110mA AC 40mA DC	Delta I+Imax	RS232 included GPIB, PLC, Ethernet in option	SXSPRO
RMG15AC	15kV	15kV in option	40mA AC 5mA DC	Delta I+Imax	RS232,GPIB, PLC, 0-10V in option	SMGPRO
RMG12DC	No	12kV	10mA DC	Delta I+Imax	RS232,GPIB, PLC, 0-10V in option	SMGPRO
PC7M	6kV	6kV	5mA AC 5mA DC	Delta I+Imax	GPIB (PC7P), PLC in option	No
DT Series	5-400kV	5-400kV	10mA-10A AC *	Imax, burning mode in option	PLC, RS232 in option	DTMG PRO

\* For other power, please consult Sefelec

For product detailed datasheet, options and accessory details, or for more technical information about high voltage test, go to our website  
All our equipment are delivered with data measurement, calibration certificate, CE mark certificate and user manual

### SEFELEC ADDED VALUES

- delta I detection for breakdown predictive mode (for anticipating problem, on a production)
- fast automatic testing + ethernet communication for production use (ideal for system integrators)
- a wide range of professional accessories in order to fit most of our customer needs

For more information on Sefelec products, applications or services, please contact your local Sefelec office.

The complete list is available at :

[http://www.sefelec.com/carte\\_en.html](http://www.sefelec.com/carte_en.html)



Specifications subject to change without notice  
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