

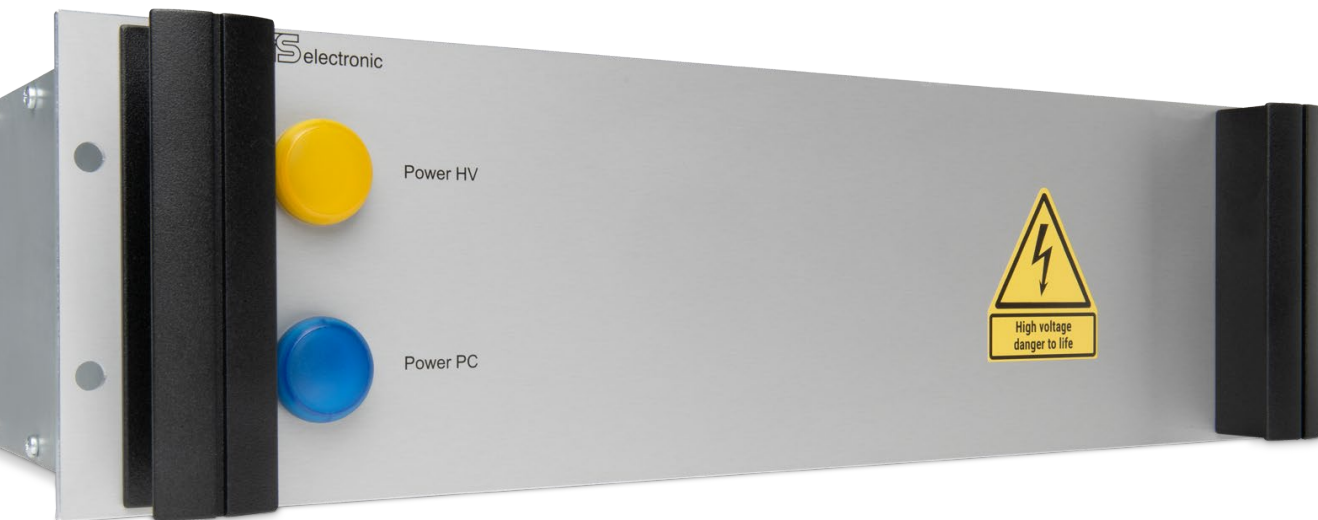
Surge Tester

ST 3820L

In addition to surge testing, the test spectrum of the ST 3820L surge tester also includes insulation Resistance Measurement and DC High Voltage testing. It was specially developed for integration into automated test systems and for use in the laboratory.

Thanks to the extremely steep voltage rise slope and the various surge capacities available as an option, the ST 3820L is ideally suited for both conventional winding goods (e.g. wound stators) and winding goods in the e-mobility sector (e.g. hairpin stators).

The ST 3820L is ideal for detecting short circuits and insulation faults within a winding even before the fault affects the electrical specifications of the device under test.



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		Rack device
Surge test	Voltage Surge Capacity	100 V - 6000 V 18 nF (optional: 40 nF, 100 nF (other capacities on request))
High Voltage Test DC	Voltage Range	100 V - 6000 V / 10 mA
Insulation Measurement DC	Measuring Range	100 V - 6000 V, 10 GΩ / kV
Internal Matrix		L, N + PE
Evaluation Process		Defective Area Differential Area nF Tolerance Band
Measurement Technology	Sampling Rate Resolution Memory Depth Number of Master Curves Recording Duration	250 MHz 12 Bit / 4 ns 256 mb Unlimited 1 μs - 160 ms
Application		Developed for OEM applications in systems
General Data	PC Software Software Interface Mains Supply	DAT DLL 90 V - 250 V 50 Hz / 60 Hz
Interfaces	Computer Interfaces	Ethernet / LAN
Operation		Remote only
Dimensions and Weight (approx.)	Height Width Depth Weight	133 mm 5.2 in 483 mm 17.0 in 489 mm 17.0 in 17,5 kg 38.6 lbs