



LOW VOLTAGE POWER TRANSFORMER TEST SYSTEM TTS1000L SERIES

TEST SYSTEM FOR 1-PHASE AND 3-PHASE POWER TRANSFORMERS

These flexible test systems are ideal for the complete routine test of low voltage power transformers according to IEC60076.

The software controllable power supply provides a 3-phase sinusoidal voltage with adjustable amplitude and frequency.

All test steps are performed after a single connection whereby a high efficiency and safety is achieved. Automatic testing with test plans for every product and automatic test certificate generation speed up the testing process and improve quality.

Our multilingual testing software allows comfortable operation of the whole test system.

The system is equipped with extensive engineered safeguards according to EN50191 to prevent operators from dangerous electrical voltages. The modular concept of the system is future-proof and allows further expansions.

APPLICATION

- Low Voltage Power Transformer Routine Test and Heat-Run Test

TEST STEPS

- No Load Current and Losses
- Short Circuit Voltage and Losses
- Voltage Ratio and Vector Group
- Induced Overvoltage
- Winding Resistance
- High voltage
- Insulation Resistance
- PE conductor

KEY FEATURES

- PC controlled test system
- Sine inverter power supply
- Full safety according to EN50191
- Comfortable , multilingual software
- Free configurable test steps

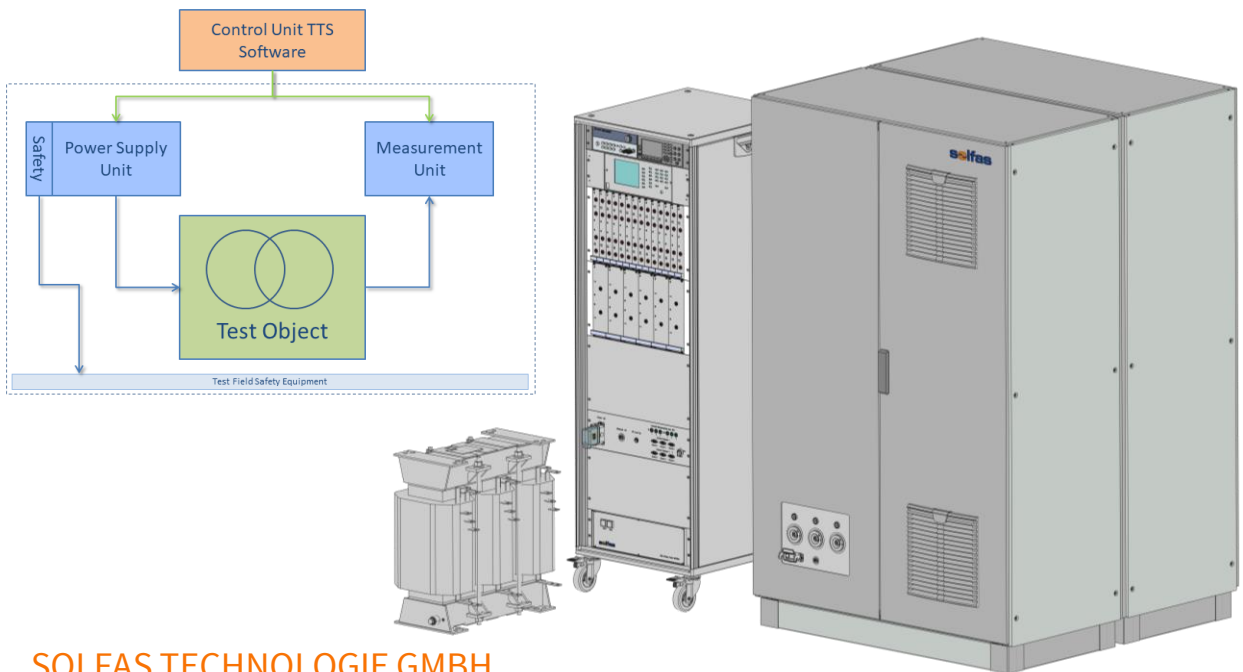
KEY BENEFITS

- Quick testing – High throughput
- One time connection for all tests
- Easy and safe operation
- Several reporting and traceability functions
- Test and error statistics
- Adaptions to individual requirements possible

TECHNICAL SPECIFICATIONS

LOW VOLTAGE POWER TRANSFORMER TEST SYSTEM TTS1000L SERIES

Model	TTS1000L	TTS1025L	TTS1050L	TTS1100L
Output power	Without Supply	27kVA	54kVA	108kVA
Sine Power Supply Output power ranges^{1,2}	-	63V 250A 125V 125A 250V 63A 500V 32A 1000V 16A 1500V 10A	63V 500A 125V 250A 250V 125A 500V 63A 1000V 32A 1500V 20A	63V 1000A 125V 500A 250V 250A 500V 125A 1000V 63A 1500V 40A
Transformer Rating Routine Test³	-	Up to 500kVA	Up to 1000kVA	Up to 2000kVA
Output Frequency	-	50Hz-400Hz		
Power Measurement	Precision power analyzer, Basic accuracy $\pm 0.05\%$ Rdg + 0.05% Rng			
Winding Resistance⁴	4-wire Measurement, Resolution $1 \mu\Omega$, Accuracy $\pm 0.03\%$ Rdg + 0.015% Rng			
High Voltage Test	0.1 ... 6kV AC, 500VA			
Insulation Resistance	Test voltage 500V, 1000V, Resistances up to 2G Ω			
PE Conductor Test (Option)	Test current 10 ... 30A AC			
Safety Features	Complete plug & play solution for safe testing according to EN50191 Connections for emergency stop buttons, up to 5 safety sensors, warning lamps			
Power Supply Weight and Dimensions (WxHxD) [mm]		950kg 1200x1900x1200	1100kg 1200x1900x1200	1350kg 1200x1900x1400
1)	Customized ranges are available		3)	Range limits must be considered, please contact Solfas for details
2)	Ranges for 50...60Hz, output current derating for 60...400Hz		4)	Option for higher resolution available



SOLFAS TECHNOLOGIE GMBH

We specialize in the development and distribution of test systems, power supplies and measuring instruments. Experts in electrical testing and automation, our company offers a broad range of high-performance full-service testing solutions and measuring instruments. We provide clients in the automotive, aerospace, energy and traditional industry sectors with the equipment they need to test high power components, such as chokes, transformers and electric motors.