



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

ELTAŞ TRANSFORMATÖR SANAYİ VE TİCARET ANONİM ŞİRKETİ

Central Address: Aliağa Organize Sanayi Bölgesi 5011 Sok. No:5, 35800 Aliağa, İzmir İzmir/Türkiye

**The list of the branches operating under the same accreditation depending on the central address and the scope of these branches are given in the annexes.*

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-0347-T

Accreditation Date : 25.03.2010

Revision Date / Number : 08.09.2025 / 14

This certificate shall remain in force until **22.09.2026**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General



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This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

 TÜRKAK Test TS EN ISO/IEC 17025 AB-0347-T	ELTAŞ TRANSFORMATÖR SANAYİ VE TİCARET ANONİM ŞİRKETİ	
	Accreditation Nr : AB-0347-T Revision Nr: 14 Date: 08.09.2025	
	Testing Laboratory	
Address : Aliğa Organize Sanayi Bölgesi 5011 Sok. No:5, 35800 Aliğa, İzmir İzmir/Türkiye	Phone : +90 232 520 8252 Fax : +90 232 376 7764 Email : deniz.batiresen@eltas.com.tr Website : www.eltas.com.tr	

Electrical,Electronic and IT Products and Devices

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Power transformers	Measurement of winding resistance	TS EN 60076-1 Clause 11.2 EN 60076-1 Clause 11.2 IEC 60076-1 Clause 11.2
Transformers	Measurement of winding resistance	IEEE C57.12.90 Clause 5
Power transformers	Measurement of winding resistance	TS EN 60076-11 Clause 14.2.1 EN 60076-11 Clause 14.2.1 IEC 60076-11 Clause 14.2.1
Power Transformers	Measurement of winding resistance	IEEE C57.12.91 Clause 5
Power transformers	Measurement of voltage ratio and check of phase displacement	TS EN 60076-1 Clause 11.3 EN 60076-1 Clause 11.3 IEC 60076-1 Clause 11.3
Transformers	Measurement of voltage ratio and check of phase displacement	IEEE C57.12.90 Clause 6-7
Power transformers	Measurement of voltage ratio and check of phase displacement	TS EN 60076-11 Clause 14.2.2 EN 60076-11 Clause 14.2.2 IEC 60076-11 Clause 14.2.2
Power Transformers	Measurement of voltage ratio and check of phase displacement	IEEE C57.12.91 Clause 7
Power transformers	Measurement of short-circuit impedance and load loss	TS EN 60076-1 Clause 11.4 EN 60076-1 Clause 11.4 IEC 60076-1 Madde 11.4
Transformers	Measurement of short-circuit impedance and load loss	IEEE C57.12.90 Madde 9
Power transformers	Measurement of short-circuit impedance and load loss	TS EN 60076-11 Clause 14.2.3 EN 60076-11 Clause 14.2.3 IEC 60076-11 Clause 14.2.3
Power Transformers	Measurement of short-circuit impedance and load loss	IEEE C57.12.91 Clause 9
Power transformers	Measurement of no-load loss and current	TS EN 60076-1 Clause 11.5 EN 60076-1 Clause 11.5 IEC 60076-1 Clause 11.5
Transformers	Measurement of no-load loss and current	IEEE C57.12.90 Clause 8
Power transformers	Measurement of no-load loss and current	TS EN 60076-11 Clause 14.2.4 EN 60076-11 Clause 14.2.4 IEC 60076-11 Clause 14.2.4



Accreditation Scope

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Power Transformers	Measurement of no-load loss and current	IEEE C57.12.91 Clause 8
Power transformers	Measurement of zero-sequence impedance	TS EN 60076-1 Clause 11.6 EN 60076-1 Clause 11.6 IEC 60076-1 Clause 11.6
Transformers	Measurement of zero-sequence impedance	IEEE C57.12.90 Clause 9.5
Power transformers	Tests on on-load tap-changers, where appropriate	TS EN 60076-1 Clause 11.7 EN 60076-1 Clause 11.7 IEC 60076-1 Clause 11.7
Power transformers	Leak testing with pressure for liquid immersed transformers (tightness test)	TS EN 60076-1 Clause 11.8 EN 60076-1 Clause 11.8 IEC 60076-1 Clause 11.8
Power transformers	Check of the ratio and polarity of built-in current transformers	TS EN 60076-1 Clause 11.1.2.1 (i) EN 60076-1 Clause 11.1.2.1 (i) IEC 60076-1 Clause 11.1.2.1 (i)
Power transformers	Check of core and frame insulation for liquid immersed transformers with core or frame insulation	TS EN 60076-1 Clause 11.12 EN 60076-1 Clause 11.12 IEC 60076-1 Clause 11.12
Transformers	Check of core and frame insulation for liquid immersed transformers with core or frame insulation	IEEE C57.12.90 Clause 10.11
Power transformers	Determination of capacitances windings-to-earth and between windings	TS EN 60076-1 Clause 11.1.2.2 (a) EN 60076-1 Clause 11.1.2.2 (a) IEC 60076-1 Clause 11.1.2.2 (a)
Transformers	Determination of capacitances windings-to-earth and between windings	IEEE C57.12.90 Clause 10.11
Power transformers	Measurement of insulation resistance	TS EN 60076-1 Clause 11.1.2.2 (b) EN 60076-1 Clause 11.1.2.2 (b) IEC 60076-1 Clause 11.1.2.2 (b)
Transformers	Measurement of insulation resistance	IEEE C57.12.90 Clause 10.11
Power transformers	Measurement of dissipation factor (tan δ) of the insulation system capacitances	TS EN 60076-1 Clause 11.1.2.2 (c) EN 60076-1 Clause 11.1.2.2(c) IEC 60076-1 Clause 11.1.2.2(c)
Transformers	Measurement of dissipation factor (tan δ) of the insulation system capacitances	IEEE C57.12.90 Clause 10.10
Power transformers	Measurement of no-load loss and current at 90 % and 110 % of rated voltage	TS EN 60076-1 Clause 11.1.2.2 (e) EN 60076-1 Clause 11.1.2.2 (e) IEC 60076-1 Clause 11.1.2.2 (e)
Transformers	Measurement of no-load loss and current at 90 % and 110 % of rated voltage	IEEE C57.12.90 Clause 8.2
Power Transformers	Measurement of no-load loss and current at 90 % and 110 % of rated voltage	IEEE C57.12.91 Clause 8
Power transformers	Applied voltage test (AV)	TS EN 60076-3 Clause 10 EN 60076-3 Clause 10 IEC 60076-3 Clause 10



Accreditation Scope

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Transformers	Applied voltage test (AV)	IEEE C57.12.90 Clause 10.6
Power Transformers	Applied voltage test (AV)	IEEE C57.12.91 Clause 10.3
Power transformers	Induced voltage withstand test (IVW)	TS EN 60076-3 EN 60076-3 IEC 60076-3
Transformers	Induced voltage withstand test (IVW)	IEEE C57.12.90 Clause 10.7
Power Transformers	Induced voltage withstand test (IVW)	IEEE C57.12.91 Clause 10.4
Power transformers	Partial discharge measurement	TS EN 60076-11 Clause 14.2.7 EN 60076-11 Clause 14.2.7 IEC 60076-11 Clause 14.2.7
Power transformers	Partial discharge measurement	TS EN 60076-16 Clause 9.2.4 EN 60076-16 Clause 9.2.4 IEC 60076-16 Clause 9.2.4
Power transformers	Partial discharge measurement	TS EN 60076-3 Annex A EN 60076-3 Annex A IEC 60076-3 Annex A
Power transformers	Induced voltage test with partial discharge measurement (IVPD)	TS EN 60076-3 Clause 11.3 EN 60076-3 Clause 11.3 IEC 60076-3 Clause 11.3
Transformers	Induced voltage test with partial discharge measurement (IVPD)	IEEE C57.12.90 Clause 10.8
Power transformers	Line terminal AC withstand test (LTAC)	TS EN 60076-3 Clause 12 EN 60076-3 Clause 12 IEC 60076-3 Clause 12
Power transformers	Full wave lightning impulse test (LI)	TS EN 60076-3 Clause 13.2 EN 60076-3 Clause 13.2 IEC 60076-3 Clause 13.2
Power transformers	Full wave lightning impulse test (LI)	TS EN 60076-11 Clause 14.3.1 EN 60076-11 Clause 14.3.1 IEC 60076-11 Clause 14.3.1
Power transformers	Full wave lightning impulse test (LI)	TS EN 60076-16 Clause 9.2.3 EN 60076-16 Clause 9.2.3 IEC 60076-16 Clause 9.2.3
Transformers	Full wave lightning impulse test (LI)	IEEE C57.12.90 Clause 10.3.1.1
Power Transformers	Full wave lightning impulse test (LI)	IEEE C57.12.91 Clause 10.6
Power transformers	Chopped wave lightning impulse test (LIC)	TS EN 60076-3 Clause 13.3 EN 60076-3 Clause 13.3 IEC 60076-3 Clause 13.3



Accreditation Scope

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Power transformers	Chopped wave lightning impulse test (LIC)	TS EN 60076-16 Clause 9.2.2 EN 60076-16 Madde 9.2.2 IEC 60076-16 Clause 9.2.2
Transformers	Chopped wave lightning impulse test (LIC)	IEEE C57.12.90 Clause 10.3.1.3
Power Transformers	Chopped wave lightning impulse test (LIC)	IEEE C57.12.91 Clause 10.5
Power transformers	Lightning impulse test on a neutral terminal (LIN)	TS EN 60076-3 Clause 13.4 EN 60076-3 Clause 13.4 IEC 60076-3 Clause 13.4
Transformers	Lightning impulse test on a neutral terminal (LIN)	IEEE C57.12.90 Clause 10.3.3
Power Transformers	Lightning impulse test on a neutral terminal (LIN)	IEEE C57.12.91 Clause 10.6
Power transformers	Switching impulse test (SI)	TS EN 60076-3 Clause 14 EN 60076-3 Clause 14 IEC 60076-3 Clause 14
Transformers	Switching impulse test (SI)	IEEE C57.12.90 Clause 10.2
Power transformers	Temperature rise type test	TS EN 60076-2 EN 60076-2 IEC 60076-2
Transformers	Temperature rise type test	IEEE C57.12.90 Clause 11
Power transformers	Temperature rise type test	TS EN 60076-11 Clause 14.3.2 EN 60076-11 Clause 14.3.2 IEC 60076-11 Clause 14.3.2
Power Transformers	Temperature rise type test	IEEE C57.12.91 Clause 11
Power transformers	Measurement of frequency response analysis (FRA)	TS EN 60076-1 Clause 11.1.4 (I) EN 60076-1 Clause 11.1.4 (I) IEC 60076-1 Clause 11.1.4 (I)
Power transformers	Determination of sound level for each method of cooling for which a guaranteed sound level is specified	TS EN 60076-10 EN 60076-10 IEC 60076-10
Transformers	Determination of sound level for each method of cooling for which a guaranteed sound level is specified	IEEE C57.12.90 Clause 13
Power transformers	Determination of sound level for each method of cooling for which a guaranteed sound level is specified	TS EN 60076-11 Clause 14.4.2 EN 60076-11 Clause 14.4.2 IEC 60076-11 Clause 14.4.2
Power Transformers	Determination of sound level for each method of cooling for which a guaranteed sound level is specified	IEEE C57.12.91 Clause 3



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Medium power transformers	Special test for corrugated tank	*TS EN 50588-1 *EN 50588-1 * Withdrawn as of 09.11.2020; however, upon the request of the organization, it has been temporarily maintained within the scope of accreditation.
Power transformers	Measurement of the power taken by the fan and liquid pump motors	TS EN 60076-1 Clause 11.1.3 (d) EN 60076-1 Clause 11.1.3 (d) IEC 60076-1 Clause 11.1.3 (d)
Power transformers	Winding hot-spot temperature-rise measurements	TS EN 60076-1 Clause 11.1.4(b) EN 60076-1 Clause 11.1.4 (b) IEC 60076-1 Clause 11.1.4 (b)
Power transformers	Determination of transient voltage transfer characteristics (IEC60076-3:2000 Annex B)	TS EN 60076-1 Clause 11.1.4 (e) EN 60076-1 Clause 11.1.4 (e) IEC 60076-1 Clause 11.1.4 (e)
Power transformers	Check of external coating (ISO 2178 as specified)	TS EN 60076-1 Clause 11.1.4 (m) EN 60076-1 Clause 11.1.4 (m) IEC 60076-1 Clause 11.1.4 (m)
Power transformers	Measurement of the harmonics of the no-load current	*TS 267 EN 60076-1:1998 Article 10.6 *IEC 60076-1:2000 Clause 10.6 * Withdrawn as of 12.04.2012; however, upon the request of the organization, it has been temporarily maintained within the scope of accreditation.
Power Transformers	Dielectric frequency response (DFR)	IEEE Std. C57.152 Annex G IEEE Std. C57.161
Power transformers	Insulation of auxiliary wiring (AuxW)	TS EN 60076-3 Clause 9 EN 60076-3 Clause 9 IEC 60076-3 Clause 9
Mineral insulating oils	Appearance	TS EN 60422 EN 60422 IEC 60422

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Accreditation Nr : AB-0347-T
Revision Nr: 14 Date: 08.09.2025

Lubricants

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Transformer insulating oils	Dissolved Gas Analysis (ÇGA) (H ₂ , CH ₄ , CO, CO ₂ , C ₂ H ₄ , C ₂ H ₆ , C ₃ H ₈ , C ₃ H ₆ , C ₂ H ₂) and Free Gas Analysis (N ₂ , O ₂) Gas Chromatography Method	TS EN 60567 ASTM D 3612
Transformer insulating oils	Determination of Power Factor	TS EN 60247 IEC 60247 ASTM D 924 ASTM D 1169
Transformer insulating oils	Determination of breakdown voltage	TS 3989 EN 60156 IEC 60156 ASTM D 1816 ASTM D 877 VDE-0370
Transformer insulating oils	Determination of Water Amount Coulometric Karl Fischer Titration Method	TS EN 60814 IEC 60814 ASTM D 1533
Transformer insulating oils	Determination of Acidity Amount Automatic Potentiometric Titration Method	TS EN 62021-1 IEC 62021-1
Transformer insulating oils	Determination of Interfacial Tension	ASTM D 971
Transformer insulating oils	ASTM Color Determination	ASTM D 1500
Transformer insulating oils	Density Determination Oscillating U-Tube Method	TS EN ISO 12185 ISO 12185 ASTM D 1298
Transformer insulating oils	Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity	ASTM D 445
Transformer insulating oils	Determination of Aniline Point	ASTM D 611

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Electrical,Electronic and IT Products and Devices		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Power transformers	Power Transformers – Part 1: General Measurement of winding resistance	TS EN 60076-1 Clause 11.2 EN 60076-1 Clause 11.2 IEC 60076-1 Clause 11.2
Power transformers	Measurement of winding resistance	TS EN 60076-11 Clause 14.2.1 EN 60076-11 Clause 14.2.1 IEC 60076-11 Clause 14.2.1
Power transformers	Measurement of winding resistance	IEEE C57.12.91 Clause 5
Power transformers	Measurement of voltage ratio and check of phase displacement	TS EN 60076-1 Clause 11.3 EN 60076-1 Clause 11.3 IEC 60076-1 Clause 11.3
Power transformers	Measurement of voltage ratio and check of phase displacement	TS EN 60076-11 Clause 14.2.2 EN 60076-11 Clause 14.2.2 IEC 60076-11 Clause 14.2.2
Power transformers	Measurement of voltage ratio and check of phase displacement	IEEE C57.12.91 Clause 6-7
Power transformers	Measurement of short-circuit impedance and load loss	TS EN 60076-1 Clause 11.4 EN 60076-1 Clause 11.4 IEC 60076-1 Clause 11.4
Power transformers	Measurement of short-circuit impedance and load loss	TS EN 60076-11 Clause 14.2.3 EN 60076-11 Clause 14.2.3 IEC 60076-11 Clause 14.2.3
Power transformers	Measurement of short-circuit impedance and load loss	IEEE C57.12.91 Clause 9
Power transformers	Measurement of no-load loss and current	TS EN 60076-1 Clause 11.5 EN 60076-1 Clause 11.5 IEC 60076-1 Clause 11.5
Power transformers	Measurement of no-load loss and current	TS EN 60076-11 Clause 14.2.4 EN 60076-11 Clause 14.2.4 IEC 60076-11 Clause 14.2.4
Power transformers	Measurement of no-load loss and current	IEEE C57.12.91 Clause 8
Power transformers	Measurement of zero-sequence impedance(s) on three-phase transformers	TS EN 60076-1 Clause 11.6 EN 60076-1 Clause 11.6 IEC 60076-1 Clause 11.6
Power transformers	Measurement of zero-sequence impedance(s) on three-phase transformers	IEEE C57.12.90 Clause 9.5
Power transformers	Measurement of no-load loss and current at 90 % and 110 % of rated voltage	TS EN 60076-1 Clause 11.1.2.2 (e) EN 60076-1 Clause 11.1.2.2 (e) IEC 60076-1 Clause 11.1.2.2 (e)



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Power transformers	Measurement of no-load loss and current at 90 % and 110 % of rated voltage	IEEE C57.12.91 Clause 8
Power transformers	Insulation-power-factor tests	IEEE C57.12.91 Clause 10.9
Power transformers	Applied voltage test (AV)	TS EN 60076-3 Clause 10 EN 60076-3 Clause 10 IEC 60076-3 Clause 10
Power transformers	Applied voltage test (AV)	TS EN 60076-11 Clause 14.2.5 IEC 60076-11 Clause 14.2.5
Power transformers	Applied voltage test (AV)	IEEE Std. C57.12.91 Clause 10.3
Power transformers	Induced voltage withstand test (IVW)	TS EN 60076-3 Clause 11.2 EN 60076-3 Clause 11.2 IEC 60076-3 Clause 11.2
Power transformers	Induced voltage withstand test (IVW)	TS EN 60076-11 Clause 14.2.6 IEC 60076-11 Clause 14.2.6
Power transformers	Induced voltage withstand test (IVW)	IEEE C57.12.91 Clause 10.4
Power transformers	Partial discharge measurement	TS EN 60076-11 Clause 14.2.7 EN 60076-11 Clause 14.2.7 IEC 60076-11 Clause 14.2.7
Power transformers	Partial discharge measurement	IEEE C57.12.91 Clause 10.5
Power transformers	Full wave lightning impulse test (LI)	TS EN 60076-3 Clause 13.2 EN 60076-3 Clause 13.2 IEC 60076-3 Clause 13.2
Power transformers	Full wave lightning impulse test (LI)	TS EN 60076-11 Clause 14.3.1 EN 60076-11 Clause 14.3.1 IEC 60076-11 Clause 14.3.1
Power transformers	Full wave lightning impulse test (LI)	IEEE C57.12.91 Clause 10.6
Power transformers	Chopped wave lightning impulse test (LIC)	TS EN 60076-3 Clause 13.3 EN 60076-3 Clause 13.3 IEC 60076-3 Clause 13.3
Power transformers	Chopped wave lightning impulse test (LIC)	TS EN 60076-11 Clause 14.3.1 IEC 60076-11 Clause 14.3.1
Power transformers	Chopped wave lightning impulse test (LIC)	IEEE Std. C57.12.91 Clause 10.6
Power transformers	Lightning impulse test on a neutral terminal (LIN)	TS EN 60076-3 Clause 13.4 EN 60076-3 Clause 13.4 IEC 60076-3 Clause 13.4
Power transformers	Lightning impulse test on a neutral terminal (LIN)	TS EN 60076-11 Clause 14.3.1 IEC 60076-11 Clause 14.3.1



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Power transformers	Lightning impulse test on a neutral terminal (LIN)	IEEE Std. C57.12.91 Clause 10.7
Power transformers	Temperature-rise test	TS EN 60076-2 EN 60076-2 IEC 60076-2
Power transformers	Temperature-rise test	TS EN 60076-11 Clause 14.3.2 EN 60076-11 Clause 14.3.2 IEC 60076-11 Clause 14.3.2
Power transformers	Temperature-rise test	IEEE Std. C57.12.91 Clause 11
Power transformers	Measurement of sound level	TS EN 60076-10 EN 60076-10 IEC 60076-10
Power transformers	Measurement of sound level	TS EN 60076-11 Clause 14.4.2 EN 60076-11 Clause 14.4.2 IEC 60076-11 Clause 14.4.2
Power transformers	Measurement of sound level	IEEE Std. C57.12.91 Clause 13
Power Transformers	Excitation current test	IEEE Std. C57.152 Clause 7.2.11
Power transformers	Measurement of the harmonics of the no-load current	*TS 267 EN 60076- 1:1998 Article 10.6 *TS 267 EN 60076- 1:1998 Article 10.6 *IEC 60076-1:2000 Clause 10.6 * Withdrawn as of 12.04.2012, however, upon the request of the organization, it has been temporarily maintained within the scope of accreditation.
Power transformers	Insulation-resistance tests	IEEE Std C57.12.91 Clause 10.10

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