



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory,

ESİM TEST HİZMETLERİ SAN. VE TİC. A.Ş.

TOSB (TAYSAD ORGANİZE SANAYİ BÖLGESİ) 2. Cad. 17. Sk. No:
2/5 41420 Şekerpınar-Çayırova 41480 KOCAELİ / TURKEY

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-0114-T

Accreditation Date : 09 April 2007

Revision Date / Number : 05 March 2020 / 017

This certificate shall remain in force until **04 March 2024**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.



Banül
G. Banu MÜDERRİSOĞLU
Secretary General

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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Accreditation Scope

 <p>Test TS EN ISO IEC 17025 AB-0114-T</p>	<p>ESİM TEST HİZMETLERİ SAN. VE TİC. A.Ş.</p> <p>Accreditation Nr: AB-0114-T Revision Nr: 017 Date: 23.03.2020</p>		
	<p>As a Testing Laboratory</p> <table><tr><td><p>Address:</p><p>TOSB (TAYSAD ORGANİZE SANAYİ BÖLGESİ) 2. Cad. 17. Sk. No: 2/5 41420 Şekerpınar-Çayırova 41480 KOCAELİ/TÜRKİYE</p></td><td><p>Phone : 0 262 658 30 63 Fax : 0 262 658 30 23 E-Mail : esim@esim.com.tr Website : www.esim.com.tr</p></td></tr></table>		<p>Address:</p> <p>TOSB (TAYSAD ORGANİZE SANAYİ BÖLGESİ) 2. Cad. 17. Sk. No: 2/5 41420 Şekerpınar-Çayırova 41480 KOCAELİ/TÜRKİYE</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
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BASIC EMC STANDARDS

*Household Appliances, Electric Tools and Similar Apparatus	Electromagnetic compatibility - Requirements for Household Appliances, Electric Tools and similar apparatus - Part 1: Emission	TS EN 55014-1 EN 55014-1 CISPR 14-1
* Electromagnetic compatibility (EMC)	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio- frequency, electromagnetic field immunity test	TS EN 61000-4-3 EN 61000-4-3 IEC 61000-4-3
Automatic Electrical Controls	Automatic electrical controls - Part 1: General requirements Emission Immunity	TS EN 60730-1 EN 60730-1 IEC 60730-1 Clause 23, Clause 26
Arc Welding Equipment	Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements Except: Harmonics, Voltage Fluctuations and Flicker	TS EN 60974-10 EN 60974-10 IEC 60974-10 Except: Clause 6.3.4
*Electromagnetic Compatibility (EMC)	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards; Emission standard for residential, commercial and light-industrial environments	TS EN 61000-6-3 EN 61000-6-3 IEC 61000-6-3
*Electromagnetic Compatibility (EMC)	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1



Note: Some or all of the tests mentioned in the scopes indicated by * (asteriks) are performed at TOSB 6. Cad.
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
* Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) - Part 6-4: Generic Standards; Emission Standard For Industrial Environments	TS EN 61000-6-4 EN 61000-6-4 IEC 61000-6-4
* Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) - Part 6-2: Generic Standards - Immunity Standard For Industrial Environments	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2
Household Appliances, Electric Tools And Similar Apparatus	Electromagnetic Compatibility - Requirements For Household Appliances, Electric Tools And Similar Apparatus - Part 2: Immunity - Product Family Standard	TS EN 55014-2 EN 55014-2 CISPR 14-2
* Information Technology Equipment	Information Technology Equipment - Radio Disturbance Characteristics - Limits And Methods Of Measurement	TS EN 55022:2012 EN 55022:2010 CISPR 22:2010 (It was repealed on 2015/03/10, but was temporarily included in the scope of accreditation on the request of the organization.)
* Information Technology Equipment	Information Technology Equipment - Immunity Characteristics - Limits And Methods Of Measurement	TS EN 55024 EN 55024 CISPR 24
* Vehicles, Boats And Internal Combustion Engines, Electronic Sub-Assembly (ESA)	Vehicles, Boats And Internal Combustion Engines - Radio Disturbance Characteristics - Limits And Methods Of Measurement For The Protection Of On-Board Receivers Clause 6: Measurement Of Components And Modules	TS EN 55025 EN 55025 CISPR 25 Clause 6
* Industrial, Scientific And Medical Equipment	Industrial, Scientific And Medical Equipment - Radio-Frequency Disturbance Characteristics - Limits And Methods Of Measurement	TS EN 55011 EN 55011 CISPR 11



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
* Vehicles, Boats, And Internal Combustion Engines	Vehicles, Boats, And Internal Combustion Engines - Radio Disturbance Characteristics - Limits And Methods Of Measurement For The Protection Of Off-Board Receivers (Length/Width 2 Meters)	TS EN 55012 EN 55012 CISPR 12
* Electrical Lighting And Similar Equipment	Limits And Methods Of Measurement Of Radio Disturbance Characteristics Of Electrical Lighting And Similar Equipment	TS EN 55015 EN 55015 CISPR 15
Equipment For General Lighting Purpos	Equipment For General Lighting Purposes - EMC Immunity Requirements	TS EN 61547 EN 61547 IEC 61547
Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) - Part 3-2: Limits - Limits For Harmonic Current Emissions (Equipment Input Current ≤16 A Per Phase)	TS EN IEC 61000-3-2 EN IEC 61000-3-2 IEC 61000-3-2
Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) -- Part 3-3: Limits - Limitation Of Voltage Changes, Voltage Fluctuations And Flicker In Public Low-Voltage Supply Systems, For Equipment With Rated Current ≤= 16 A Per Phase And Not Subject To Conditional Connection	TS EN 61000-3-3 EN 61000-3-3 IEC 61000-3-3
Electromagnetic Compatibility (EMC)	Electromagnetic compatibility (EMC) -- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (Air: 2-15kV, Contact: 1-8kV)	TS EN 61000-4-2 EN 61000-4-2 IEC 61000-4-2
* Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) - Part 4-3: Testing And Measurement Techniques - Radiated, Radio- Frequency, Electromagnetic Field Immunity Test (80Mhz-4,2 Ghz And 1-3-10-30V/M)	TS EN 61000-4-3 EN 61000-4-3 IEC 61000-4-3



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 <p>Test TS EN ISO IEC 17025 AB-0114-T</p>	<p style="text-align: center;">ESİM TEST HİZMETLERİ SAN. VE TİC. A.Ş.</p> <p style="text-align: center;">Accreditation Nr: AB-0114-T Revision Nr: 017 Date: 23.03.2020</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
* Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) -- Part 4-4: Testing And Measurement Techniques - Electrical Fast Transient/Burst Immunity Test (Power Ports: 0,5-4,kv, 5-100khz And Data Ports: 0,25-2,5kv, 5-100khz)	TS EN 61000-4-4 EN 61000-4-4 IEC 61000-4-4
Electromagnetic Compatibility (EMC)	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (Between 0,5-6,6kV; Open-Circuit Voltage Tf/Td: 1,2/50µs, Short Circuit Current Tf/Td: 8/20µs)	TS EN 61000-4-5 EN 61000-4-5 IEC 61000-4-5
Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) -- Part 4-6: Testing And Measurement Techniques - Immunity To Conducted Disturbances, Induced By Radio-Frequency Fields (Between 150kHz-230MHz; 1, 3, 10V)	TS EN 61000-4-6 EN 61000-4-6 IEC 61000-4-6
Electromagnetic Compatibility (EMC) Except CRT Monitors	Electromagnetic Compatibility (EMC) - Part 4-8: Testing And Measurement Techniques - Power Frequency Magnetic Field Immunity Test (1, 3, 10, 30, 100A/m)	TS EN 61000-4-8 EN 61000-4-8 IEC 61000-4-8
Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) -- Part 4-11: Testing And Measurement Techniques - Voltage Dips, Short Interruptions And Voltage Variations Immunity Tests (Between %0*UT-%100*UT; 0,05-9999ms)	TS EN 61000-4-11 EN 61000-4-11 IEC 61000-4-11
Electromagnetic Compatibility (EMC)	Electromagnetic Compatibility (EMC) - Part 4-13: Testing And Measurement Techniques; Harmonics And Interharmonics Including Mains Signalling At A.C. Power Port, Low Frequency Immunity Tests	TS EN 61000-4-13 EN 61000-4-13 IEC 61000-4-13

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Medical Electrical Equipment	Medical Electrical Equipment - Part 1-2: General Requirements For Basic Safety And Essential Performance - Collateral Standard: Electromagnetic Disturbances - Requirements And Tests	TS EN 60601-1-2 EN 60601-1-2 IEC 60601-1-2
Electrical Equipment For Measurement, Control And Laboratory Use	Electrical Equipment For Measurement, Control And Laboratory Use - EMC Requirements - Part 1: General Requirements	TS EN 61326-1 EN 61326-1 IEC 61326-1
Electromagnetic Compatibility And Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard For Radio Equipment And Services	Electromagnetic Compatibility And Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard For Radio Equipment And Services; Part 1: Common Technical Requirements	TS EN 301489-1 EN 301489-1 ETSI EN 301489-1
Electromagnetic Compatibility And Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard For Radio Equipment And Services	Electromagnetic Compatibility And Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard For Radio Equipment And Services ; Part 3: Specific Conditions For Short-Range Devices (SRD) Operating On Frequencies Between 9Khz and 40Ghz	TS EN 301489-3 EN 301489-3 ETSI EN 301489-3
Electromagnetic Compatibility And Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard For Radio Equipment	Electromagnetic Compatibility And Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard For Radio Equipment; Part 17: Specific Conditions For 2,4 Ghz Wideband Transmission Systems, 5 Ghz High Performance RLAN Equipment And 5,8 Ghz Broadband Data Transmitting Systems	TS EN 301489-17 EN 301489-17 ETSI EN 301489-17



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electromagnetic Compatibility And Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard For Radio Equipment And Services	Electromagnetic Compatibility And Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard For Radio Equipment And Services; Part 19: Specific Conditions For Receive Only Mobile Earth Stations (ROMES) Operating In The 1,5 Ghz Band Providing Data Communications	TS EN 301489-19 EN 301489-19 ETSI EN 301489-19
Lifts, Escalators And Moving Walks (Only Electrics/Electronics Sub-Assemblies And Parts)	Electromagnetic Compatibility - Product Family Standard For Lifts, Escalators And Moving Walks - Emission Except: Voltage Fluctuation And Flicker, Mains Supply Harmonics	TS EN 12015 EN 12015 Except: Clause 4.3, Clause 4.4
Lifts, Escalators And Moving Walks (Only Electrics/Electronics Sub-Assemblies And Parts)	Electromagnetic Compatibility - Product Family Standard For Lifts, Escalators And Moving Walks - Immunity	TS EN 12016 EN 12016
Low-Voltage Switch Mode Power Supplies	Low-Voltage Switch Mode Power Supplies - Part 3: Electromagnetic Compatibility (EMC)	TS EN IEC 61204-3 EN IEC 61204-3 IEC 61204-3
Road Traffic Signal Systems	Electromagnetic Compatibility-Road Traffic Signal Systems-Product Standard	TS EN 50293 EN 50293
Alarm Systems	Alarm Systems - Part 4: Electromagnetic Compatibility - Product Family Standard: Immunity Requirements For Components Of Fire, Intruder, Hold Up, CCTV, Access Control And Social Alarm Systems	TS EN 50130-4 EN 50130-4



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electrical Apparatus For The Detection And Measurement Of Combustible Gases, Toxic Gases Or Oxygen	Electromagnetic Compatibility - Electrical Apparatus For The Detection And Measurement Of Combustible Gases, Toxic Gases Or Oxygen	TS EN 50270 EN 50270
Switches For Household And Similar Fixed Electrical Installations	Switches For Household And Similar Fixed Electrical Installations - Part 2-1: Particular Requirements - Electronic Switches EMC Requirements	TS EN 60669-2-1 EN 60669-2-1 IEC 60669-2-1 Clause 26
* Uninterruptible Power Systems (UPS)	Uninterruptible Power Systems (UPS) - Part 2: Electromagnetic Compatibility (EMC) Requirements	TS EN 62040-2 EN 62040-2 IEC 62040-2
* Tractor and Tractor Parts (Electrical/Electronic Sub-Assemblies-ESA)	The Suppression Of Radio Interference Produced By Agricultural Or Forestry Tractors (Electromagnetic compatibility (EMC)) Radiated Broadband Electromagnetic Emissions Radiated Narrowband Electromagnetic Emissions Immunity of Electrical/Electronic Sub-Assemblies to Electromagnetic Radiation (200MHz-1000MHz)	2009/64/AT 2009/64/EC Annex 6, Annex 9 Annex 7, Annex 10 Annex 11



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
* Tractor and Tractor Parts (Electrical/Electronic Sub-Assemblies-ESA)	Regulation Of On The Approval And Market Surveillance Of Agricultural And Forestry Vehicles - Vehicle Functional Safety Requirements For The Approval Of Agricultural And Forestry Vehicles Radiated Broadband Electromagnetic Emissions Radiated Narrowband Electromagnetic Emissions Immunity of Electrical/Electronic Sub-Assemblies to Electromagnetic Radiation (200MHz-1000MHz)	Reg. 167/2013 2015/208 Annex XV Part 3, Part 6 Part 4, Part 7 Part 8



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 Test TS EN ISO IEC 17025 AB-0114-T	ESİM TEST HİZMETLERİ SAN. VE TİC. A.Ş. Accreditation Nr: AB-0114-T Revision Nr: 017 Date: 23.03.2020
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
*Vehicle Parts (Electrical/Electronic Sub-Assemblies-ESA)	Radiated Broadband Electromagnetic Emissions	ECE R10 Rev. 6 Annex 7
	Radiated Narrowband Electromagnetic Emissions	Annex 8
	Immunity of Electrical/Electronic Sub-Assemblies to Electromagnetic Radiation	Annex 9
	Method(S) Of Testing For Emission Of Harmonics Generated On AC Power Lines From Vehicle	Annex 11
	Method(S) Of Testing For Emission Of Voltage Changes, Voltage Fluctuations And Flicker On AC Power Lines From Vehicle	Annex 12
	Method(s) Of Testing For Emission Of Radiofrequency Conducted Disturbances On AC Or DC Power Lines From Vehicles	Annex 13
	Method Of Testing For Immunity Of Vehicles To Electrical Fast Transient/Burst Disturbances Conducted Along AC And DC Power Lines	Annex 15



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
*Vehicle Parts (Electrical/Electronic Sub-Assemblies-ESA)	Radiated Broadband Electromagnetic Emissions Radiated Narrowband Electromagnetic Emissions Immunity of Electrical/Electronic Sub-Assemblies to Electromagnetic Radiation Method(S) Of Testing For Emission Of Harmonics Generated On AC Power Lines From Vehicle Method(S) Of Testing For Emission Of Voltage Changes, Voltage Fluctuations And Flicker On AC Power Lines From Vehicle Method(s) Of Testing For Emission Of Radiofrequency Conducted Disturbances On AC Or DC Power Lines From Vehicles Method Of Testing For Immunity Of Vehicles To Electrical Fast Transient/Burst Disturbances Conducted Along AC And DC Power Lines	ECE R10 Rev. 5 Annex 7 Annex 8 Annex 9 Annex 11 Annex 12 Annex 13 Annex 15
*Vehicle Parts (Electrical/Electronic Sub-Assemblies-ESA)	Radiated Broadband Electromagnetic Emissions Radiated Narrowband Electromagnetic Emissions Immunity of Electrical/Electronic Sub-Assemblies to Electromagnetic Radiation	2004/104/EC Annex VII Annex VIII Annex IX



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
*Vehicle Parts (Electrical/Electronic Sub-Assemblies-ESA)	Concerning Type-Approval Requirements For The General Safety Of Motor Vehicles, Their Trailers And Systems, Components And Separate Technical Units Intended Therefor Radiated Broadband Electromagnetic Emissions Radiated Narrowband Electromagnetic Emissions Immunity of Electrical/Electronic Sub-Assemblies to Electromagnetic Radiation	72/245/AT Annex VII Annex VIII Annex IX
Resistance Welding Equipment	Resistance Welding Equipment - Part 2: Electromagnetic Compatibility (EMC) Requirements	TS EN 62135-2 EN 62135-2
* Multimedia Equipment	Electromagnetic Compatibility Of Multimedia Equipment - Emission Requirements	TS EN 55032 EN 55032 CISPR 32
* Adjustable Speed Electrical Power Drive Systems	Adjustable Speed Electrical Power Drive Systems - Part 3: EMC Requirements And Specific Test Methods	TS EN IEC 61800-3 EN IEC 61800-3
Road Vehicles	Road Vehicles -- Electrical Disturbances From Conduction And Coupling -- Part 2: Electrical Transient Conduction Along Supply Lines Only Except: Emission Tests	TS ISO 7637-2 ISO 7637-2 Except: Clause 4.3



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Road Vehicles	Road Vehicles -- Electrical Disturbances From Conduction And Coupling -- Part 3: Electrical Transient Transmission By Capacitive And Inductive Coupling Via Lines Other Than Supply Lines Except: Method DCC, Method ICC	TS ISO 7637-3 ISO 7637-3 Except: Clause 4.6, Clause 4.7
Road Vehicles	Test Methods For Electrical Disturbances From Electrostatic Discharge	ISO 10605
Road Vehicles	Component Test Methods For Electrical Disturbances From Narrowband Radiated Electromagnetic Energy - Part 1: General Principles And Terminology	ISO 11452-1
* Road Vehicles	Component Test Methods For Electrical Disturbances From Narrowband Radiated Electromagnetic Energy - Part 2: Absorber-Lined Shielded Enclosure	ISO 11452-2
Road Vehicles	Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods (1-400 MHz) Except: TWC Method	ISO 11452-4 Except: Clause 6.2
* Railway Applications	Railway Applications - Rolling Stock - Electronic Equipment Except: Vibration and Shock Test	TS EN 50155 Except: Clause 13.4.11
* Railway Applications	Railway Applications - Electromagnetic Compatibility - Part 1: General	TS EN 50121-1 EN 50121-1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
* Railway Applications	Railway Applications - Electromagnetic Compatibility - Part 3-2: Rolling Stock - Apparatus Except: General Use Devices With AC Power Outlet	TS EN 50121-3-2 EN 50121-3-2 Except: EN 61000-4-30
Military Products	Conducted Susceptibility Conducted Emission Radiated Emission Radiated Susceptibility Restriction for RS103: 80 Mhz-18 Ghz 50V/M	MIL-STD 461E/F/G CS101, CS114 CE101, CE102 RE101, RE102 RS101, RS103
Military Products	CS118, Personnel Borne Electrostatic Discharge	MIL STD 461G CS118
Military Products	Characteristics Of 28 Volt DC Electrical Systems In Military Vehicles	MIL STD 1275D/E
Military Products	Aircraft Electric Power Characteristics Guidance For Test Procedures For Demonstration Of Utilization Equipment Compliance To Aircraft Electrical Power Characteristics 28 Vdc	MIL STD 704E/F MIL-HDBK-704-8
General Requirements For Home And Building Electronic Systems (HBES) And Building Automation And Control Systems (BACS)	General Requirements For Home And Building Electronic Systems (HBES) And Building Automation And Control Systems (BACS) - Part 5-1: EMC Requirements, Conditions And Test Set-Up	TS EN 50491-5-1 EN 50491-5-1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
General Requirements For Home And Building Electronic Systems (HBES) And Building Automation And Control Systems (BACS)	General Requirements For Home And Building Electronic Systems (HBES) And Building Automation And Control Systems (BACS) -Part 5-2: EMC Requirements For HBES/BACS Used In Residential, Commercial And Light Industry Environment	TS EN 50491-5-2 EN 50491-5-2
Home And Building Electronic Systems (HBES) And Building Automation And Control Systems (BACS)	Home And Building Electronic Systems (HBES) And Building Automation And Control Systems (BACS) - Part 5-2: EMC Requirements For HBES/BACS Used In Residential, Commercial And Light-Industrial Environments	EN 63044-5-2 IEC 63044-5-2
Switches For Household And Similar Fixed Electrical Installations	Switches For Household And Similar Fixed Electrical Installations - Part 2-5: Particular Requirements - Switches And Related Accessories For Use In Home And Building Electronic Systems (HBES)	TS EN 60669-2-5 EN 60669-2-5 IEC 60669-2-5
Anechoic Chambers	Anechoic Chambers-Part 1:Shield Attenuation Measurement 30 MHz - 18 GHz	TS EN 50147-1 EN 50147-1
Electric Vehicle Conductive Charging System	Electric Vehicle Conductive Charging System -Part 1: General Requirements Except: Telecommunication Networks	TS EN 61851-1 EN 61851-1 IEC 61851-1 Except: Clause 11.16
Electric Vehicle Conductive Charging System	Electric Vehicle Conductive Charging System - Part 21-1: Electric Vehicle On-Board Charger EMC Requirements For Conductive Connection To An AC/DC Supply	TS EN 61851-21-1 EN 61851-21-1 IEC 61851-21-1
Electric Vehicle Conductive Charging System	Electric Vehicle Conductive Charging System - Part 21-2: Electric Vehicle Requirements For Conductive Connection To An AC/DC Supply - EMC Requirements For Off Board Electric Vehicle Charging Systems	IEC 61851-21-2

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electric Vehicle Conductive Charging System	Electric Vehicle Conductive Charging System - Part 22: AC Electric Vehicle Charging Station Except: Solar Radiation, Saline Mist	TS EN 61851-22 EN 61851-22 Except: Clause 11.1.7, Clause 11.1.8
Electric Vehicle Conductive Charging System	Electric Vehicle Conductive Charging System - Part 23: D.C Electric Vehicle Charging Station Except: General System Requirement and Interface, Specific Requirements For D.C. EV Charging Station, DC EV Charging Station Of System A, DC EV Charging Station Of System B, DC EV Charging Station Of System C,	TS EN 61851-23 EN 61851-23 IEC 61851-23 Except: Clause 6, Clause 101, Annex AA, Annex BB, Annex CC

LVD STANDARDS

Electrical Equipment For Measurement, Control And Laboratory Use	Safety Requirements For Electrical Equipment For Measurement, Control And Laboratory Use - Part 1: General Requirements Except: Equipment Intended to Emit Radiation, Equipment Not Intended to Emit Radiation, Microwave Radiation, Ultrasonic Pressure	TS EN 61010-1 IEC 61010-1 EN 61010-1 Except: Clause 12.2.1.2, Clause 12.2.1.3, Clause 12.4, Clause 12.5.2
Uninterruptible Power Systems (UPS)	Uninterruptible Power Systems (UPS) - Part 1: General And Safety Requirements For UPS	TS EN 62040-1 IEC 62040-1 EN 62040-1
Arc Welding Equipment	Arc Welding Equipment - Part 1: Welding Power Sources	TS EN IEC 60974-1 EN IEC 60974-1 IEC 60974-1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Arc Welding Equipment	Arc Welding Equipment -- Part 2: Liquid Cooling Systems	TS EN IEC 60974-2 EN IEC 60974-2 IEC 60974-2
Arc Welding Equipment	Arc Welding Equipment -- Part 5: Wire Feeders	TS EN IEC 60974-5 EN IEC 60974-5 IEC 60974-5
Arc Welding Equipment	Arc Welding Equipment -- Part 6: Limited Duty Equipment	TS EN 60974-6 IEC 60974-6 EN 60974-6
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 1: General Requirements Except: Appliances With Pins For Insertion Into Socket-Outlets Test, The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-1 EN 60335-1 IEC 60335-1 Except: Clause 22.3, Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-2: Particular Requirements For Vacuum Cleaners And Water-Suction Cleaning Appliances Except: Appliances With Pins For Insertion Into Socket-Outlets Test, The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-2 EN 60335-2-2 IEC 60335-2-2 Except: Clause 22.3, Clause 22.32, Clause 30.2.1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety Part 2-3: Particular Requirements For Electric Irons Except: Appliances With Pins For Insertion Into Socket-Outlets Test, The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-3 EN 60335-2-3 IEC 60335-2-3 Except: Clause 22.3, Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-6: Particular Requirements For Stationary Cooking Ranges, Hobs, Ovens And Similar Appliances Except: Appliances With Pins For Insertion Into Socket-Outlets Test, The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-6 IEC 60335-2-6 EN 60335-2-6 Except: Clause 22.3, Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-9: Particular Requirements For Grills, Toasters And Similar Portable Cooking Appliances Except: Appliances With Pins For Insertion Into Socket-Outlets Test, The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772, Resistance To Rusting For Appliances Intended For Outdoor Use	TS 2005 EN 60335-2-9 IEC 60335-2-9 EN 60335-2-9 Except: Clause 22.3, Clause 22.32, Clause 30.2.1, Clause 31



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Safety Of Household And Similar Electrical Appliances Part 2.12: Warming Plates And Similar Appliances Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-12 IEC 60335-2-12 EN 60335-2-12 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety Part 2-13: Particular Requirements For Deep Fat Fryers, Frying Pans And Similar Appliances Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-13 IEC 60335-2-13 EN 60335-2-13 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-14: Particular Requirements For Kitchen Machines Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-14 IEC 60335-2-14 EN 60335-2-14 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety Part 2-15: Particular Requirements For Appliances For Heating Liquids Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-15 EN 60335-2-15 IEC 60335-2-15 Except: Clause 22.32, Clause 30.2.1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2.21: Particular Requirements For Storage Water Heaters Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS 2212 EN 60335-2-21 IEC 60335-2-21 EN 60335-2-21 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2.23: Particular Requirements For Appliances For Skin Or Hair Care Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS 374 EN 60335-2-23 EN 60335-2-23 IEC 60335-2-2 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Safety Of Household And Similar Electrical Appliances -Part 2-24: Particular Requirements For Refrigerating Appliances, Ice-Cream Appliances And Ice-Makers Except: The Test Of Resistant To Aging Only For Rubber Material, Compression Type Devices Using Flammable Refrigerant, Only The Test ISO 9772	TS EN 60335-2-24 EN 600335-2-24 IEC 600335-2-24 Except: Clause 22.32, Clause 22.107, Clause 22.108, Clause 22.109, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety Part 2-28: Particular Requirements For Sewing Machines Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-28 IEC 60335-2-28 EN 60335-2-28 Except: Clause 22.32, Clause 30.2.1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-30: Particular Requirements For Room Heaters Expect: The covering test with 4 kg / m ² ± 0.4 kg / m ² specific mass and 25 mm thickness felt, The covering test with paper with a special mass of 80 g/m ² ± 16 g/m ² and an explosion index of 3.7 kPa m ² / g, The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-30 IEC 60335-2-30 EN 60335-2-30 Except: Clause 19.103, Clause 19.108, Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-31: Particular Requirements For Range Hoods And Other Cooking Fume Extractors Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-31 EN 60335-2-31 IEC 60335-2-31 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances Except: Bare-Element Water Heater	Household And Similar Electrical Appliances - Safety - Part 2-35 : Particular Requirements For Instantaneous Water Heaters Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-35 IEC 60335-2-35 EN 60335-2-35 Except: Clause 22.32, Clause 30.2.1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances -Safety - Part 2-36: Particular Requirements For Commercial Electric Cooking Ranges, Ovens, Hobs And Hob Elements Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-36 IEC 60335-2-36 EN 60335-2-36 Except: Clause 22.32, Clause 30.2.1, Clause 30.101
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety Part 2-37: Particular Requirements For Commercial Electric Deep Fat Fryers Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-37 IEC 60335-2-37 EN 60335-2-37 Except: Clause 22.32, Clause 30.2.1, Clause 30.101
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety Part 2-38: Particular Requirements For Commercial Electric Griddles And Griddle Grills Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-38 IEC 60335-2-38 EN 60335-2-38 Except: Clause 22.32, Clause 30.2.1, Clause 30.101
Household And Similar Electrical Appliances	Safety Of Household And Similar Electrical Appliances-Part 2-43:Particular Requirments For Clothes Dryers And Towel Rails Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-43 IEC 60335-2-43 EN 60335-2-43 Except: Clause 22.32, Clause 30.2.1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Safety Of Household And Similar Electrical Appliances-Part 2.47-Particular Requirements For Commercial Electric Boling Pans Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-47 IEC 60335-2-47 EN 60335-2-47 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances- Safety-Part 2-48:Particular Requirments For Commercial Grillers And Toasters Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-48 IEC 60335-2-48 EN 60335-2-48 Except: Clause 22.32, Clause 30.2.1, Clause 30.101
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2.50: Particular Requirements For Commercial Electric Bains-Marie Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-50 IEC 60335-2-50 EN 60335-2-50 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Güvenlik Kuralları - Ev Ve Benzeri Household And Similar Electrical Appliances - Safety - Part 2 - 54: Particular Requirement For Surface-Cleaning Appliances For Household Use Employing Liquids Or Steam Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-54 IEC 60335-2-54 EN 60335-2-54 Except: Clause 22.32, Clause 30.2.1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety Part 2-59: Particular Requirements For Insect Killers Except: Appliances With Pins For Insertion Into Socket-Outlets Test, The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772, Resistance To Rusting For Appliances Intended For Outdoor Use, Test for Appliances incorporating lamps emitting UV radiation	TS EN 60335-2-59 IEC 60335-2-59 EN 60335-2-59 Except: Clause 22.3, Clause 22.32, Clause 30.2.1, Clause 31, Clause 32
Household And Similar Electrical Appliances	Safety Of Household And Similar Electrical Appliances - Part 2-64: Particular Requirements For Commercial Electric Kitchen Machines Except: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-64 IEC 60335-2-64 EN 60335-2-64 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-68: Particular Requirements For Spray Extraction Machines, For Commercial Use Except: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-68 IEC 60335-2-68 EN 60335-2-68 Except: Clause 22.32, Clause 30.2.1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-69: Particular Requirements For Wet And Dry Vacuum Cleaners, Including Power Brush For Commercial Use Except: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772, Annex AA (Wet and Dry Vacuum Cleaners With Motor Driven Brush)	TS EN 60335-2-69 IEC 60335-2-69 EN 60335-2-69 Except: Clause 22.32, Clause 30.2.1, Annex AA
Household And Similar Electrical Appliances	Household And Similar Electrical Appliance- Safety -Path 2-80: Particular Requirements For Fans Except: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-80 IEC 60335-2-80 EN 60335-2-80 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Appliances - Safety - Part 2-89: Particular Requirements For Commercial Refrigerating Appliances With An Incorporated Or Remote Refrigerant Condensing Unit Or Compressor Except: The Test Of Resistant To Aging Only For Rubber Material, Compression Type Devices Using Flammable Refrigerant, Only The Test ISO 9772	TS EN 60335-2-89 IEC 60335-2-89 EN 60335-2-89 Except: Clause 22.32, Clause 22.106, Clause 22.107, Clause 22.108, Clause 30.2.1.



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Household And Similar Electrical Appliances	Safety Of Household And Similar Electrical Appliances - Part 2:98 Particular Requirements For Humidifiers Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-98 IEC 60335-2-98 EN 60335-2-98 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-102: Particular Requirements For Gas, Oil And Solid-Fuel Burning Appliances Having Electrical Connections Expect: The Test Of Resistant To Aging Only For Rubber Material, Only The Test ISO 9772	TS EN 60335-2-102 IEC 60335-2-102 EN 60335-2-102 Except: Clause 22.32, Clause 30.2.1
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances - Safety - Part 2-103: Particular Requirements For Drives For Gates, Doors And Windows	TS EN 60335-2-103 EN 60335-2-103 IEC 60335-2-103
Household Appliances And Similar Apparatus	Measurement Methods For Electromagnetic Fields Of Household Appliances And Similar Apparatus With Regard To Human Exposure	TS EN 62233 EN 62233 IEC 62233
Luminaires	Luminaires - Part 1: General Requirements And Tests Except: Rough Service Luminaires - Vibration Requirements, Retinal Blue Light Hazard, Annex P, Uv Radiation	TS EN 60598-1 EN 60598-1 IEC 60598-1 Except: Clause 4.20, Clause 4.24, Annex P

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Luminaires	Luminaires-Part 2: Particular Requirements-Section One: Fixed General Purpose Luminaires	TS 8698 EN 60598-2-1 EN 60598-2-1 IEC 60598-2-1
Luminaires	Luminaires - Part 2-2: Particular Requirements - Recessed Luminaires	TS EN 60598-2-2 EN 60598-2-2 IEC 60598-2-2
Luminaires	Luminaires -- Part 2-3: Particular Requirements - Luminaires For Road And Street Lighting	TS 8700 EN 60598-2-3 EN 60598-2-3 IEC 60598-2-3
Luminaires	Luminaires - Part 2: Particular Requirements - Section 4: Portable General Purpose Luminaires	TS EN 60598-2-4 EN 60598-2-4 IEC 60598-2-4
Luminaires	Luminaires - Part 2-5: Particular Requirements - Floodlights	TS EN 60598-2-5 EN 60598-2-5 IEC 60598-2-5
Luminaires	Luminaires - Part 2-8: Particular Requirements - Handlamps Except: Crush Test	TS EN 60598-2-8 EN 60598-2-8 IEC 60598-2-8 Except: Clause 8.16.1
Luminaires	Luminaires - Part 2-13: Particular Requirements - Ground Recessed Luminaires Except: Resistance To Static Load	TS EN 60598-2-13 EN 60598-2-13 IEC 60598-2-13 Except: Clause 13.6.1
Luminaires	Luminaires-Part 2:Particular Requirements-Section 23:Extra Low-Voltage Lighting Systems For Filament Lamps	TS EN 60598-2-23 EN 60598-2-23 IEC 60598-2-23



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Luminaires	Luminaires-Part 2:Particular Requirements-Section 25:Luminaires For Use In Clinical Areas Of Hospitals And Health Care Buildings Except: Mechanical Strength Test For Hand-Held Inspection Armatures	TS EN 60598-2-25 EN 60598-2-25 IEC 60598-2-25 Except: Clause 25.6.2.3
Enclosures	Degrees Of Protection Provided By Enclosures (IP Code) (For Electrical Equipments) Max. 5kV AC, 6kV DC for Clause 12.3.2 High Voltage Equipment, Size of Immersion Tank For IPX7/IPX8 Tests: 150 cm x 150 cm x 150 cm, Size of Dust Cabinet For IPX5/IPX6 Tests: 100 cm x 78 cm x 130 cm	TS 3033 EN 60529 EN 60529 IEC 60529
Electrical Equipment For Machines	Safety Of Machinery - Electrical Equipment Of Machines - Part 1: General Requirements	TS EN 60204-1 IEC 60204-1 EN 60204-1
Mechanical Structures For Electronic Equipment	Mechanical Structures For Electronic Equipment - Tests For IEC 60917 And IEC 60297 Series - Part 1: Environmental Requirements, Test Set-Up And Safety Aspects For Cabinets, Racks, Subracks And Chassis Under Indoor Condition Use And Transportation Except: Mechanic Tests	IEC 61587-1 IEC 61587-1 TS EN 61587-1 Except: Clause 7
End Product	Fire Hazard Testing - Part 2-10: Glowing/Hot-Wire Based Test Methods - Glow-Wire Apparatus And Common Test Procedure	TS EN 60695-2-10 IEC 60695-2-10 EN 60695-2-10

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
End Product	Fire Hazard Testing - Part 2-11: Glowing/Hot-Wire Based Test Methods - Glow-Wire Flammability Test Method For End-Products (GWEPT)	TS EN 60695-2-11 IEC 60695-2-11 EN 60695-2-11
End Product	Fire Hazard Testing - Part 2-12: Glowing/Hot-Wire Based Test Methods - Glow-Wire Flammability Index (GWFI) Test Method For Materials	TS EN 60695-2-12 IEC 60695-2-12 EN 60695-2-12
End Product	Fire Hazard Testing - Part 2-13: Glowing/Hot-Wire Based Test Methods - Glow-Wire Ignition Temperature (GWIT) Test Method For Materials	TS EN 60695-2-13 IEC 60695-2-13 EN 60695-2-13
End Product	Fire Hazard Testing - Part 10-2: Abnormal Heat - Ball Pressure Test Method	TS EN 60695-10-2 IEC 60695-10-2 EN 60695-10-2
End Product	Fire Hazard Testing - Part 11-5: Test Flames - Needle-Flame Test Method - Apparatus, Confirmatory Test Arrangement And Guidance	TS EN 60695-11-5 IEC 60695-11-5 EN 60695-11-5
Electrotechnical Products	Environmental Testing - Part 2-1: Tests - Tests A: Cold Size Of Cabinet:150 cm x 100 cm x 100 cm Restriction: Up to -70°C	TS EN 60068-2-1 IEC 60068-2-1 EN 60068-2-1
Electrotechnical Products	Environmental Testing - Part 2-2: Tests - Test B: Dry Heat Size Of Cabinet: Up to 50 °C: 230 cm x 350 cm x 300 cm Up to 150 °C: 150 cm x 100 cm x 100 cm Restriction: Up To 150 °C	TS EN 60068-2-2 IEC 60068-2-2 EN 60068-2-2



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electrotechnical Products	Environmental Testing - Part 2-14: Tests - Test N: Change Of Temperature Size Of Cabinet:100 cm x 100 cm x 100 cm Size Of Cabinet:150 cm x 100 cm x 100 cm Restriction: Except 5°C/Min. Rate Of Change Except: Test Nc: Rapid Change Of Temperature, Two-Fluid-Bath Method	TS EN 60068-2-14 EN 60068-2-14 IEC 60068-2-14 Except: Clause 9
Electrotechnical Products	Environmental Testing -- Part 2-30: Tests - Test Db: Damp Heat, Cyclic (12 h + 12 h Cycle) Size Of Cabinet:150 cm x 100 cm x 100 cm	TS EN 60068-2-30 IEC 60068-2-30 EN 60068-2-30
Electrotechnical Products	Environmental Testing -- Part 2-38: Tests - Test Z/AD: Composite Temperature/Humidity Cyclic Test Size Of Cabinet:150 cm x 100 cm x 100 cm	TS EN 60068-2-38 EN 60068-2-38 IEC 60068-2-38
Electrotechnical Products	Environmental Testing-Part 2-67: Tests-Tests Cy: Damp Heat, Steady State, Accelerated Test Primarily Intended For Components Size Of Cabinet:150 cm x 100 cm x 100 cm	TS EN 60068-2-67 EN 60068-2-67 IEC 60068-2-67
Electrotechnical Products	Environmental Testing - Part 2-75: Tests - Test Eh: Hammer Tests Except: Only 0,14J Impact Energy Value, Eha: Pendulum Hammer	TS EN 60068-2-75 EN 60068-2-75 IEC 60068-2-75 Except: Clause 4.1.2 Only 0,14J Impact Energy Value, Clause 5



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electrotechnical Products	Environmental Testing - Part 2-78: Tests - Test Cab: Damp Heat, Steady State Size Of Climatic Room: 230 cm x 350 cm x 300 cm Size Of Cabinet: 150 cm x 100 cm x 100 cm	TS EN 60068-2-78 EN 60068-2-78 IEC 60068-2-78
Military Products	Enviromental Engineering Considerations and Laboratory Tests-High Temperature Size Of Cabinet: Up To 50°C: 230 cm x 350 cm x 300 cm Up To 150°C: 150 cm x 100 cm x 100 cm Restriction:Up to +150°C	MIL-STD-810F Method 501.4 MIL-STD-810G Method 501.5 MIL-STD-810G w/Change1 Method 501.6
Military Products	Enviromental Engineering Considerations and Laboratory Tests-Low Temperature Size Of Cabinet: 150 cm x 100 cm x 100 cm Restriction: Up to -70°C	MIL-STD-810F Method 502.4 MIL-STD-810G Method 502.5 MIL-STD-810G w/Change1 Method 502.6
Military Products	Enviromental Engineering Considerations and Laboratory Tests Temperature Shock Size Of Cabinet: 150 cm x 100 cm x 100 cm Size Of Cabinet: 100 cm x 100 cm x 100 cm Restriction: Up to -70°C and +150 °C	MIL-STD-810F Method 503.4 MIL-STD-810G Method 503.5 MIL-STD-810G w/Change1 Method 503.6
Military Products	Enviromental Engineering Considerations and Laboratory Tests Humidity Size Of Cabinet: 150 cm x 100 cm x 100 cm	MIL-STD-810F Method 507.4 MIL-STD-810G Method 507.5 MIL-STD-810G w/Change1 Method 507.6

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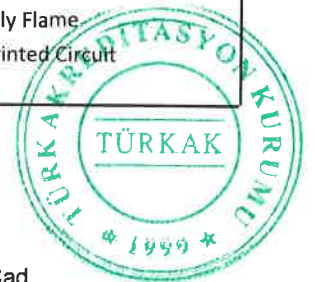


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 <p>TÜRKAK Test TS EN ISO IEC 17025 AB-0114-T</p>	<p>ESİM TEST HİZMETLERİ SAN. VE TİC. A.Ş.</p> <p>Accreditation Nr: AB-0114-T Revision Nr: 017 Date: 23.03.2020</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Information Technology Equipment	Information Technology Equipment - Safety -- Part 1: General Requirements Except: Connection To Telecommunications Networks, Connection To Cable Distribution Systems	TS EN 60950-1 EN 60950-1 IEC 6950-1 Except: Clause 6, Clause 7
Solid Insulating Materials	Method For The Determination Of The Proof And The Comparative Tracking Indices Of Solid Insulating Materials Except: Only Solution B	TS EN 60112 EN 60112 IEC 60112 Except: Clause 7.3 Only Solution B
Household And Similar Electrical Appliances	Household And Similar Electrical Appliances -Electromagnetic Fields - Methods Of Evaluation And Measurement	TS EN 50366 EN 50366 (It was repealed on 2012/12/04, but was temporarily included in the scope of accreditation on the request of the organization)
Lamp Controlgear	Lamp Controlgear - Part 1: General And Safety Requirements Except: Thermal Endurance Test Of Ballast Windings, Flame Resistance Test Of Printed Circuit Boards	TS EN 61347-1 EN 61347-1 IEC 61347-1 Except: Clause 13, Clause 18.2
Lamp Controlgear	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules Except: Only Flame Resistance Test Of Printed Circuit Boards	TS EN 61347-2-13 EN 61347-2-13 IEC 61347-2-13 Except: Clause 19 Only Flame Resistance Test Of Printed Circuit Boards



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
LED Modules	LED Modules For General Lighting - Safety Specifications Except: Photobiological Safety, Only Flame Resistance Test Of Printed Circuit Boards	TS EN 62031 EN 62031 IEC 62031 Except: Clause 22, Clause 18 Only Flame Resistance Test Of Printed Circuit Boards
Enclosures	Degrees Of Protection Provided By Enclosures For Electrical Equipment Against External Mechanical Impacts (IK Code) (IK02-IK10) Except: IK01	TS EN 62262 EN 62262 IEC 62262 Except: IK01
Power Converters	Safety Of Power Converters For Use In Photovoltaic Power Systems - Part 1: General Requirements	TS EN 62109-1 EN 62109-1 IEC 62109-1
Power Converters	Safety Of Power Converters For Use In Photovoltaic Power Systems - Part 2: Particular Requirements For Inverters	TS EN 62109-2 EN 62109-2 IEC 62109-2
Road Vehicles	Environmental Conditions And Testing For Electrical And Electronic Equipment Part4: Climatic Loads Except: Ice Water Shock Test, Salt Spray Tests, Corrosion Test With Flow Of Mixed Gas, Solar Radiation, Dust Test	ISO 16750-4 Except: Clause 5.4, Clause 5.5, Clause 5.8, Clause 5.9, Clause 5.10
Road Vehicle	Environmental Conditions And Testing For Electrical And Electronic Equipment Part 1:General	ISO 16750-1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Environmental Conditions And Testing For Electrical And Electronic Equipment	Environmental Conditions And Testing For Electrical And Electronic Equipment Part 2:Electrical Load For Un=12 V Systems For Un=24 V Systems Slow Decrease And Increase Of Supply Voltage Momentary Drop In Supply Voltage Reset Behaviour At Voltage Drop Starting Profile Reversed Voltage	ISO 16750-2 Clause 4.3.1 Clause 4.3.2 Clause 4.5 Clause 4.6.1 Clause 4.6.2 Clause 4.6.3 Clause 4.7
Semiconductor Converters	Semiconductor Converters - General Requirements And Line Commutated Converters - Part 1-1: Specification Of Basic Requirements	TS EN 60146-1-1 EN 60146-1-1 IEC 60146-1-1
Semiconductor Converters	Semiconductor Converters;General Requirements And Line Commutated Converters;Part 1-3:Transformers And Reactors Except: Measurement Of Commutating Reactance And Determination Of Inductive Voltage Drop (type test)	TS EN 60146-1-3 EN 60146-1-3 IEC 60146-1-3 Except: Clause 5.1



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Information Technology Equipment	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements Except: Limits For Repetitive Pulses, Ringing Signals, High Pressure Lamps, Safeguards Against Visible, Infra-Red, and Ultra-Violet Radiation, Safeguards Against X-Radiation, Criteria For Telephone Ringing Signals	TS EN 62368-1 EN 62368-1 IEC 62368-1 Except: Clause 5.2.2.5, Clause 5.2.2.6, Clause 8.5.5, Clause 10.4, Clause 10.5, Annex H
Power Electronic Converter Systems And Equipment	Safety Requirements For Power Electronic Converter Systems And Equipment -- Part 1: General Except: Impulse Voltage Test- Only Surge Protected Devices, Partial Discharge Test, Short Time Withstand Current (Icw) Test, High Current Arcing Ignition Test, Hot Wire Ignition Test, Flammability Test, Flaming Oil Test, Cemented Joints Test, Vibration Test, Salt Mist Test, Dust And Sand Test	TS EN 62477-1 EN 62477-1 IEC 62477-1 Except: Clause 5.2.3.2 Only Surge Protected Devices, Clause 5.2.3.5, Clause 5.2.4.10, Clause 5.2.5.2, Clause 5.2.5.4, Clause 5.2.5.5, Clause 5.2.5.6, Clause 5.2.5.7, Clause 5.2.6.4, Clause 5.2.6.5, Clause 5.2.6.6



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Medical Electrical Equipment	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance Except: Defibrillation-Proof Applied Parts, Acoustic Energy, X-Radiation, Microwave Radiation, Fire Prevention	TS EN 60601-1 EN 60601-1 IEC 60601-1 Except: Madde 8.5.5, Madde 9.6.2, Madde 10.1, Madde 10.3, Madde 11.2

End of Scope




G. Banu MÜDERRİSOĞLU
Secretary General

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No:1/2 Çayırova / KOCAELİ.