



# ACCREDITATION CERTIFICATE

**LB-TEST-204**

**Emirates International Accreditation Centre**

has accredited

**RENEWABLE ENERGY AND ELECTROMECHANICAL LABORATORY'S SECTION**

**DUBAI CENTRAL LABORATORY DEPARTMENT**

**DUBAI MUNICIPALITY**

Za'beel Street, Al Karamah, Dubai- United Arab Emirates

In accordance with the requirements of

**ISO/IEC 17025:2017**

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity

period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 09/08/2022 to 05/10/2025

Initial Accreditation Date: 06/10/2010



  
CHIEF EXECUTIVE OFFICER  
APPROVAL



**Accreditation Scope**  
**Electrical Testing**  
**LB-TEST-204**

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**Dubai Central Laboratory Department**

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Issue no.: 10

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Type of Activity	Test Materials/Products	Test Name	Test Method
Energy Efficiency (E3)	Energy efficiency of water storage heaters	Methods for measuring the performance of electric storage water heaters for household purposes	IEC 60379 Ed. 3
Energy Efficiency (E3)	Energy Efficiency of TV sets	Determination of power consumption	IEC 62087-3 Ed. 1
Energy Efficiency (E3)	Energy Efficiency of TV sets	Measurement of standby power	IEC 62301 Ed. 2
Energy Efficiency (E3)	Energy Efficiency of TV sets	Energy Efficiency Label for Electrical Appliances Part 8: Television Sets	UAE.S 5010-8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Energy Efficiency (E3)	Energy efficiency of household refrigerating appliances	Characteristics and test methods of Household refrigerating appliances - General requirements	IEC 62552-1 Ed. 1
Energy Efficiency (E3)	Energy efficiency of household refrigerating appliances	Performance requirements	IEC 62552-2 Ed. 1
Energy Efficiency (E3)	Energy efficiency of household refrigerating appliances	Energy consumption and volume	IEC 62552-3 Ed. 1

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Energy Efficiency (E3)	Energy efficiency of household refrigerating appliances	Labeling - Energy Efficiency Label for Electrical Appliances Part 3: Household Refrigerating Appliances	UAE.S 5010-3
Energy Efficiency (E3)	Energy efficiency of household refrigerating appliances	Energy performance and capacity and labeling of household refrigerators, refrigerator-freezers, and freezers	SASO 2664
Energy Efficiency (E3)	Self ballasted CFL lamps	Self-ballasted lamps for general lighting services - Performance requirements	IEC 60969 Ed. 2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Energy Efficiency (E3)	Solid-State Lighting products	Electrical and Photometric Measurements of Solid-State Lighting Products	IES LM-79 -08
	Conformity assessment system for lighting product	Energy Efficiency requirements for lamps	UAE Cabinet Decision No 34 of 2013 O UAE System for Lighting Products
Household and Similar Equipment (HOUS)	Household and Similar Electrical Appliances	General Safety Requirements for Household and Similar Electrical Appliances	IEC 60335-1 Ed. 5 Ed. 5.1 Ed. 5.2 (Ball pressure, cl. 30.1)

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Type of Activity	Test Materials/Products	Test Name	Test Method
Household and Similar Equipment (HOUS)	Vacuum cleaners & similar appliance	Particular requirements for vacuum cleaners and water-suction cleaning appliance	IEC 60335-2-2 Ed. 7.0
Household and Similar Equipment (HOUS)	Electric Irons	Particular Requirements for Electric Irons	IEC 60335-2-3 Ed. 6
Household and Similar Equipment (HOUS)	Spin Extractors & similar appliances	Particular requirements for spin extractors	IEC 60335-2-4 Ed. 6
Household and Similar Equipment (HOUS)	stationary cooking , ranges, hobs, ovens and similar appliances	Particular requirements for stationary cooking , ranges, hobs, ovens and similar appliances	IEC 60335-2-6 Ed. 6 (Surface temp. probe, cl.11)

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Type of Activity	Test Materials/Products	Test Name	Test Method
Household and Similar Equipment (HOUS)	Washing Machines & similar appliances	Particular requirements for washing machines	IEC 60335-2-7 Ed. 8.0
Household and Similar Equipment (HOUS)	Shavers, clippers and similar appliances	Particular requirements for shavers, hair clippers and similar appliances	IEC 60335-2-8 Ed. 6
Household and Similar Equipment (HOUS)	Grills and Similar Portable Cooking Appliances	Particular Requirements for Grills, Toasters and Similar Portable Cooking Appliances	UAE.S/IEC 60335-2-9 IEC 60335-2-9 Ed. 7.0
Household and Similar Equipment (HOUS)	Tumble dryers and similar appliances	Particular requirements for tumble dryers	IEC 60335-2-11 Ed. 8.0

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Household and Similar Equipment (HOUS)	Warming plates and similar appliances	Particular requirements for warming plates and similar appliances	IEC 60335-2-12 Ed. 5.1
Household and Similar Equipment (HOUS)	Deep Fat Fryers and Similar Appliances	Particular Requirements for Deep Fat Fryers, Frying Pans and Similar Appliances	IEC 60335-2-13 Ed. 6
Household and Similar Equipment (HOUS)	Kitchen Machine and Similar Appliances	Particular Requirements for Kitchen Machine	UAE.S/IEC 60335-2-14 IEC 60335-2-14 Ed. 6.0 (Assessment of non-detachable parts, cl. 22.11)

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Type of Activity	Test Materials/Products	Test Name	Test Method
Household and Similar Equipment (HOUS)	Appliances for Heating Liquids	Particular Requirements for Appliances for Heating liquids	IEC 60335-2-15 Ed. 6 (Spillage, cl. 15.2)
Household and Similar Equipment (HOUS)	Storage Water Heaters	Particular Requirements for Storage Water Heaters	UAE.S/IEC 60335-2-21 IEC 60335-2-21 Ed. 6.0
Household and Similar Equipment (HOUS)	Skin or hair care appliances	Particular Requirements for Appliances for Skin or Hair Care	IEC 60335-2-23 IEC 60335-2-23 Ed. 6.0 (Abnormal operation, cl. 19.2)

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Type of Activity	Test Materials/Products	Test Name	Test Method
Household and Similar Equipment (HOUS)	Refrigerating Appliances- Ice-Cream Appliances and Ice-Makers	Particular requirements for Refrigerating Appliances -Ice-Cream Appliances and Ice-Makers	UAE.S/IEC 60335-2-24 IEC 60335-2-24 Ed. 7.1 (Cord strain relief, cl. 25.15)
Household and Similar Equipment (HOUS)	Microwave Ovens, Including Combination Microwave Ovens	Particular Requirements for Microwave Ovens, Including Combination Microwave Ovens	UAE.S GSO/IEC 60335-2-25 IEC 60335-2-25 Ed. 6.1
Household and Similar Equipment (HOUS)	battery chargers	Particular requirements for battery chargers	IEC 60335-2-29:2016 IEC 60335-2-29:2016/AMD1:2019 IEC 60335-2-29:2016+AMD1:2019 CSV

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Household and Similar Equipment (HOUS)	Room heaters and similar appliances	Particular requirements for room heaters	IEC 60335-2-30 Ed. 5
Household and Similar Equipment (HOUS)	Portable heating tools and similar appliances	Particular requirements for portable heating tools and similar appliances	IEC 60335-2-45 Ed. 3.2
Household and Similar Equipment (HOUS)	Insect Killers	Particular requirements for insect killers	UAE.S GSO/IEC 60335-2-59 IEC 60335-2-59 Ed. 3.2
Household and Similar Equipment (HOUS)	Air-cleaning appliances	Particular requirements for air-cleaning appliances	IEC 60335-2-65 Ed. 2
Household and Similar Equipment (HOUS)	Commercial dispensing appliances and vending machines	Particular requirements for commercial dispensing appliances and vending machines	IEC 60335-2-75 Ed. 3

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Household and Similar Equipment (HOUS)	Electrical Fans	Particular requirements for fans	UAE.S/IEC 60335-2-80 IEC 60335-2-80 Ed. 3
Household and Similar Equipment (HOUS)	Fabric steamers	Particular requirements for Fabric steamers	IEC 60335-2-85 Ed. 2
Household and Similar Equipment (HOUS)	Commercial refrigerating appliances	Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	IEC 60335-2-89 Ed. 3.0
Household and Similar Equipment (HOUS)	Humidifiers and similar appliances	Particular requirements for humidifiers	IEC 60335-2-98 Ed. 2.2

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Household and Similar Equipment (HOUS)	Gas, oil and solid-fuel burning appliances having electrical connections	Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections	UAE.S/ IEC 60335-2-102 IEC 60335-2-102 Ed. 2
Household and Similar Equipment (HOUS)	Appliances for skin exposure to optical radiation	Particular requirements for Appliances for skin exposure to optical radiation	IEC 60335-2-27
Household and Similar Equipment (HOUS)	Toys that have at least one function dependent on electricity & Toys using electricity for secondary functions	Electric toys - Safety	IEC 62115 Ed. 2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Installation accessories and connection devices (INST)	Plugs & socket outlets and similar appliances	Plugs and socket-outlets for household and similar purposes	UAE.S/GSO IEC 60884-1 IEC 60884-1 Ed. 3 & 3.2
Installation accessories and connection devices (INST)	Plugs & socket outlets and similar appliances	Particular requirements for fused plugs	UAE.S/IEC 60884-2-1 IEC 60884-2-1 Ed. 2
Installation accessories and connection devices (INST)	Plugs & socket outlets and similar appliances	Particular requirements for socket outlets for appliances	IEC 60884-2-2 Ed. 2
Installation accessories and connection devices (INST)	Plugs & socket outlets and similar appliances	Particular requirements for switched socket-outlets without interlock for fixed Installations	IEC 60884-2-3 Ed. 2

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Installation accessories and connection devices (INST)	Plugs & socket outlets and similar appliances	Particular requirements for plugs and socket-outlets for SELV	IEC 60884-2-4 Ed. 3
Installation accessories and connection devices (INST)	Plugs & socket outlets and similar appliances	Particular requirements for adaptors	UAE.S/IEC 60884-2-5 IEC 60884-2-5 Ed. 2
Installation accessories and connection devices (INST)	Plugs & socket outlets and similar appliances	Particular requirements for switched socket-outlets with interlock for fixed electrical installations	IEC 60884-2-6 Ed. 1
Installation accessories and connection devices (INST)	Plugs & socket outlets and similar appliances	Particular requirements for cord extension sets	IEC 60884-2-7 Ed. 1 1.1

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Installation accessories and connection devices (INST)	Switches and similar electrical installation	Switches for household and similar fixed-electrical installations	IEC 60669-1 Ed. 4
Installation accessories and connection devices (INST)	Switches for household and similar fixed-electrical installations	Particular Requirements Electronics Switches	IEC 60669-2-1 Ed. 4.2
Installation accessories and connection devices (INST)	Electrical accessories Cable reels	Electrical accessories Cable reels for household and similar purposes	IEC 61242 Ed. 1
Installation accessories and connection devices (INST)	Switches for appliances	Switches for appliances - General Safety Requirements	IEC 61058-1 Ed. 4

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Type of Activity	Test Materials/Products	Test Name	Test Method
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Hand-held motor-operated electric tools –Safety General requirements	UAE.S/IEC 60745-1 IEC 60745-1 Ed. 4
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for drills and impact drills	IEC 60745-2-1 Ed. 2.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for screw-drivers and impact wrenches	IEC 60745-2-2 Ed. 2.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for grinders, polishers and disk-type sanders	IEC 60745-2-3 Ed. 2.2

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Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for sanders and polishers other than disk type	IEC 60745-2-4 Ed. 2.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for circular saws	IEC 60745-2-5 Ed. 5
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for hammers	IEC 60745-2-6 Ed. 2.2
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for spray guns for non-flammable liquids	IEC 60745-2-7 Ed. 1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for shears and nibblers	IEC 60745-2-8 Ed. 2.0 Ed. 2.1

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Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for tappers	IEC 60745-2-9 Ed. 2.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for reciprocating saws (jig and sabre saws)	IEC 60745-2-11 Ed. 2.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for concrete vibrators	IEC 60745-2-12 Ed. 2.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for chain saws	IEC 60745-2-13 Ed. 2.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for planers	IEC 60745-2-14 Ed. 2.2

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Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for hedge trimmers	IEC 60745-2-15 Ed. 2.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for tickers	IEC 60745-2-16 Ed. 2
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for routers and trimmers	IEC 60745-2-17 Ed. 3
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for strapping tools	IEC 60745-2-18 Ed. 1.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for jointers	IEC 60745-2-19 Ed. 1.1
Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for band saws	IEC 60745-2-20 Ed. 1.1

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Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for drain cleaners	IEC 60745-2-21 Ed. 1.1
Portable Tools (TOOL)	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery	Safety General requirements of Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery	IEC 62841-1
		Particular requirements for hand-held screwdrivers and impact wrenches	IEC 62841-2-2

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Portable Tools (TOOL)	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery	Particular requirements for transportable table saws	IEC 62841-3-1
		Particular requirements for transportable drills	IEC 62841-3-13
		Particular requirements for transportable drain cleaners	IEC 62841-3-14
Portable Tools (TOOL)	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery	Particular requirements for hedge trimmers	IEC 62841-4-2
Portable Tools (TOOL)		Particular requirements for chain saws	IEC 62841-4-1

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Portable Tools (TOOL)	Hand held electrical tools and similar appliances	Particular requirements for die grinders and small rotary tools	IEC 60745-2-23 (First Edition)
Electrical Testing- Ingress of Protection	Ingress of protection	Degree of protection against water	IEC 60529 Ed. 2.2
Electrical Testing- Accessibility to Live Parts	Accessibility to live parts	Protection of persons and equipment by enclosures- Probes for verification	IEC 61032 Ed. 2
Electrical Testing- Material Testing	Material testing (Resistance to fire)	Glow- wire apparatus and common test procedure	IEC 60695-2-10 Ed. 2
Electrical Testing- Material Testing	Material testing (Resistance to fire)	Ball pressure test	IEC 60695-10-2 Ed. 3
Lighting (LITE)	Safety Requirements for Luminaries	General requirements and tests	IEC 60598-1 Ed. 8

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Lighting (LITE)	Fixed general purpose luminaries	Particular requirements - Fixed general purpose luminaries	IEC 60598-2-1 Ed 2.0
Lighting (LITE)	Recessed luminaries	Particular requirements - Recessed luminaries	IEC 60598-2-2 Ed. 3
Lighting (LITE)	Luminaries for road and street lighting	Particular requirements - Luminaries for road and street lighting	IEC 60598-2-3 Ed. 3.1
Lighting (LITE)	Portable luminaries	Portable general purpose luminaries	IEC 60598-2-4 Ed. 3
Lighting (LITE)	Flood lights	Particular requirements - Floodlights	IEC 60598-2-5 Ed. 3

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Lighting (LITE)	Self-ballasted LED lamps	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications	IEC 62560 Ed. 1.1
Lighting (LITE)	Self-ballasted LED lamps	Self-ballasted fluorescent lamps for general lighting services – Safety requirements	IEC 60968 Ed. 3
Electromagnetic Compatibility (EMC)	Electro static discharge test for electrical and electronics equipment	Testing and Measurement Techniques – Electrostatic Discharge Immunity Test	IEC 61000-4-2 Ed. 2

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Electromagnetic Compatibility (EMC)	Fast Transient test for electrical and electronics equipment	Testing and measurement techniques – Electrical fast transient/burst immunity test	IEC 61000-4-4 Ed. 3
Electromagnetic Compatibility (EMC)	Industrial environments	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards	IEC 61000-6-2 Ed. 3
Electromagnetic Compatibility (EMC)	Residential, commercial and	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard	IEC 61000-6-3 Ed. 2.1

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Electromagnetic Compatibility (EMC)	light-industrial environments	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard	IEC 61000-6-4 Ed. 3
Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	EMC immunity requirements	IEC 61000-3-3 Ed. 3

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Electromagnetic Compatibility (EMC)	Information technology equipment	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 $\leq 16$ A per phase and not subject to conditional connection	CISPR 24 Ed. 2.1
Electromagnetic Compatibility (EMC)	Equipment for general lighting purposes	Electromagnetic Compatibility of multimedia equipment – Immunity requirements	IEC 61547 Ed. 2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electromagnetic Compatibility (EMC)	Surge immunity test for electrical and electronics equipment	Testing and measurement techniques – Surge Immunity Test	IEC 61000-4-5 Ed. 3
Electromagnetic Compatibility (EMC)	Radio frequency disturbance test for electrical and electronics equipment	Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	IEC 61000-4-6 Ed. 4
Electromagnetic Compatibility (EMC)	Voltage fluctuation and flicker test on electrical and electronic equipment	Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)	IEC 61000-3-2: Ed. 5

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electromagnetic Compatibility (EMC)	Voltage dips and short interruptions immunity test	Testing and measurement techniques – Voltage dips, short	IEC 61000-4-11 Ed. 3
Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-2: Methods of measurement of disturbances and immunity - Measurement of disturbance power	CISPR 16-2-2 Ed. 2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	CISPR 16-2-3 Ed. 4

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	CISPR 16-1-4 Ed. 3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-3: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power	CISPR 16-1-3 Ed. 2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements	CISPR 16-1-2 Ed. 2

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Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus	CISPR 16-1-1 Ed. 4

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	CISPR 16-2-1 Ed. 3
Electromagnetic Compatibility (EMC)	Multimedia equipment	Electromagnetic Compatibility of multimedia equipment – Emission requirements	CISPR 35 Ed. 1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electromagnetic Compatibility (EMC)	Multimedia equipment	Electromagnetic Compatibility of multimedia equipment – Emission requirements	CISPR 32 Ed. 2.0 Ed. 2.1
Batteries (BATT)	Secondary cells and batteries containing alkaline or other non-acid electrolytes	Safety requirements for portable sealed secondary cells, and for batteries Amide from them, for use in portable applications	IEC 62133-2 Ed.1.0
IT and Office Equipment (OFF)	IT product	General Safety Requirements for Information Technology Equipment	IEC 60950-1 Ed. 2.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Information Technology Audio Video (ITAV)	Electrical and Electronic Equipment within the field of audiom video, infomration and communication technology, and business and office machines with a rated voltage not excessing 600V	General Safety Requirment for Audio/video, information and communication technology equipment	IEC 62368-1 Ed. 3.0

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Type of Activity	Test Materials/Products	Test Name	Test Method
Restriction Of Hazardous Substance (ROHS)	Electrical and Electronic Equipment	Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry	IEC 62321-3-1 Ed. 1
Restriction Of Hazardous Substance (ROHS)	Electrical and Electronic Equipment	Determination of certain substances in electrotechnical products – Part 1: Introduction and overview	IEC 62321-1 Ed. 1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Restriction Of Hazardous Substance (ROHS)	Electrical and Electronic Equipment	Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjointment and mechanical sample preparation	IEC 62321-2 Ed. 1

Issue no.	Details	Date
10	Renewal accreditation and modify in some test method	09-08-2022
09	Temporary certificate validity was extended for 6 months from 30-05-2022 up to 29-11-2022	30-05-2022
08	Extension in scope	13-09-2021
07	Modify in some test method	16-09-2020
06	Renewal accreditation and first issuance under the name of Eiac (which was formerly known as DAC)	30/05/2019