

Accreditation Scope

Electrical Testing

204-LB-TEST

Renewable Energy and Electromechanical Laboratory's Section			
Dubai Central Laboratory Department			
Dubai Municipality			
Za'beel Street, Al Karamah, Dubai- United Arab Emirates			
Issue no.: 06 Rev. 00	Date: 30-05-2019		Valid to: 29-05-2022
Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical testing performance (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 of TV sets	Determination of power consumption	IEC 62087-3 Ed. 1
	Energy Efficiency of TV sets	Measurement of standby power	IEC 62301 Ed. 2
	Energy Efficiency of TV sets	Energy Efficiency Label for Electrical Appliances Part 8: Television Sets	UAE.S 5010-8
	Energy efficiency of household refrigerating appliances	Characteristics and test methods of Household refrigerating appliances - General requirements	IEC 62552-1 Ed. 1
	Energy efficiency of household refrigerating appliances	Performance requirements	IEC 62552-2 Ed. 1
	Energy efficiency of household refrigerating appliances	Energy consumption and volume	IEC 62552-3 Ed. 1
	Energy efficiency of household refrigerating appliances	Labeling - Energy Efficiency Label for Electrical Appliances Part 3: Household Refrigerating Appliances	UAE.S 5010-3

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Electrical testing performance (E3)	Energy efficiency of household refrigerating appliances	Energy performance and capacity and labeling of household refrigerators, refrigerator-freezers, and freezers	SASO 2664
	Self ballasted CFL lamps	Self-ballasted lamps for general lighting services - Performance requirements	IEC 60969 Ed. 2
Electrical Testing - Household Appliances (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
	Vacuum cleaners & similar appliance	Particular requirements for vacuum cleaners and water-suction cleaning appliance	IEC 60335-2-2 Ed. 6.1
	Electric Irons	Particular Requirements for Electric Irons	IEC 60335-2-3 Ed. 6
	Spin Extractors & similar appliances	Particular requirements for spin extractors	IEC 60335-2-4 Ed. 6

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Electrical Testing - Household Appliances (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
	Washing Machines & similar appliances	Particular requirements for washing machines	IEC 60335-2-7 Ed. 7
	Shavers, clippers and similar appliances	Particular requirements for shavers, hair clippers and similar appliances	IEC 60335-2-8 Ed. 6
	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. 6.0
	Tumble dryers and similar appliances	Particular requirements for tumble dryers	IEC 60335-2-11 Ed. 7.1
	Warming plates and similar appliances	Particular requirements for warming plates and similar appliances	IEC 60335-2-12 Ed. 5.1
	Deep Fat Fryers and Similar Appliances	Particular Requirements for Deep Fat Fryers, Frying Pans and Similar Appliances	IEC 60335-2-13 Ed. 6
	Kitchen Machine and Similar Appliances	Particular Requirements for Kitchen Machine	UAE.S/IEC 60335-2-14 IEC 60335-2-14 Ed. 6.0

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Electrical Testing - Household Appliances (HOUS)	Appliances for Heating Liquids	Particular Requirements for Appliances for Heating liquids	IEC 60335-2-15 Ed. 6
	Storage Water Heaters	Particular Requirements for Storage Water Heaters	UAE.S/IEC 60335-2-21 IEC 60335-2-21 Ed. 6.0
	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
	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
	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
	battery chargers	Particular requirements for battery chargers	IEC 60335-2-29 Ed. 5
	Room heaters and similar appliances	Particular requirements for room heaters	IEC 60335-2-30 Ed. 5
	Portable heating tools and similar appliances	Particular requirements for portable heating tools and similar appliances	IEC 60335-2-45 Ed. 3.2

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Electrical Testing - Household Appliances (HOUS)	Insect Killers	Particular requirements for insect killers	UAE.S GSO/IEC 60335-2-59 IEC 60335-2-59 Ed. 3.2
	Air-cleaning appliances	Particular requirements for air-cleaning appliances	IEC 60335-2-65 Ed. 2
	Commercial dispensing appliances and vending machines	Particular requirements for commercial dispensing appliances and vending machines	IEC 60335-2-75 Ed. 3
	Electrical Fans	Particular requirements for fans	UAE.S/IEC 60335-2-80 IEC 60335-2-80 Ed. 3
	Fabric streamers	Particular requirements for Fabric streamers	IEC 60335-2-85 Ed. 2
	Commercial refrigerating appliances	Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	IEC 60335-2-89 Ed. 2.1
	Humidifiers and similar appliances	Particular requirements for humidifiers	IEC 60335-2-98 Ed. 2.2

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Electrical Testing - Household Appliances (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
Electrical Testing- Installation (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
		Particular requirements for fused plugs	UAE.S/IEC 60884-2-1 IEC 60884-2-1 Ed. 2
	Plugs & socket outlets and similar appliances	Particular requirements for socket outlets for appliances	IEC 60884-2-2 Ed. 2
		Particular requirements for switched socket-outlets without interlock for fixed Installations	IEC 60884-2-3 Ed. 2
		Particular requirements for plugs and socket-outlets for SELV	IEC 60884-2-4 Ed. 3
		Particular requirements for adaptors	UAE.S/IEC 60884-2-5 IEC 60884-2-5 Ed. 1 & 2

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Electrical Testing- Installation (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
		Particular requirements for cord extension sets	IEC 60884-2-7 Ed. 1 1.1
	Switches and similar electrical installation	Switches for household and similar fixed-electrical installations	IEC 60669-1 Ed. 3.2 & 4
	Switches for household and similar fixed-electrical installations	Particular Requirements Electronics Switches	IEC 60669-2-1 Ed. 4.2
	Electrical accessories Cable reels	Electrical accessories Cable reels for household and similar purposes	IEC 61242 Ed. 1
	Switches for appliances	Switches for appliances - General Safety Requirements	IEC 61058-1 Ed. 4
Electrical Testing- Tools (TOOLS)	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
		Particular requirements for drills and impact drills	IEC 60745-2-1 Ed. 2.1

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Electrical Testing- Tools (TOOLS)	Hand held electrical tools and similar appliances	Particular requirements for screw-drivers and impact wrenches	IEC 60745-2-2 Ed. 2.1
		Particular requirements for grinders, polishers and disk-type sanders	IEC 60745-2-3 Ed. 2.2
		Particular requirements for sanders and polishers other than disk type	IEC 60745-2-4 Ed. 2.1
		Particular requirements for circular saws	IEC 60745-2-5 Ed. 5
		Particular requirements for hammers	IEC 60745-2-6 Ed. 2.2
		Particular requirements for spray guns for non-flammable liquids	IEC 60745-2-7 Ed. 1
		Particular requirements for shears and nibblers	IEC 60745-2-8 Ed. 2.1
		Particular requirements for tappers	IEC 60745-2-9 Ed. 2.1
		Particular requirements for reciprocating saws (jig and sabre saws)	IEC 60745-2-11 Ed. 2.1
		Particular requirements for concrete vibrators	IEC 60745-2-12 Ed. 2.1

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Electrical Testing- Tools (TOOLS)	Hand held electrical tools and similar appliances	Particular requirements for chain saws	IEC 60745-2-13 Ed. 2.1
		Particular requirements for planers	IEC 60745-2-14 Ed. 2.2
		Particular requirements for hedge trimmers	IEC 60745-2-15 Ed. 2.1
		Particular requirements for tickers	IEC 60745-2-16 Ed. 2
		Particular requirements for routers and trimmers	IEC 60745-2-17 Ed. 3
		Particular requirements for strapping tools	IEC 60745-2-18 Ed. 1.1
		Particular requirements for jointers	IEC 60745-2-19 Ed. 1.1
		Particular requirements for band saws	IEC 60745-2-20 Ed. 1.1
Particular requirements for drain cleaners	IEC 60745-2-21 Ed. 1.1		
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

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Electrical Testing- Material Testing	Material testing (Resistance to fire)	Glow- wire apparatus and common test procedure	IEC 60695-2-10 Ed. 2
		Ball pressure test	IEC 60695-10-2 Ed. 3
Luminaries and Lamps (LITE)	Safety Requirements for Luminaries	General requirements and tests	IEC 60598-1 Ed. 8
Luminaries and Lamps (LITE)	Fixed general purpose luminaries	Particular requirements - Fixed general purpose luminaries	IEC 60598-2-1 Ed. 1
	Recessed luminaries	Particular requirements - Recessed luminaries	IEC 60598-2-2 Ed. 3
Luminaries and Lamps (LITE)	Luminaries for road and street lighting	Particular requirements - Luminaries for road and street lighting	IEC 60598-2-3 Ed. 3.1
	Portable luminaries	Portable general purpose luminaries	IEC 60598-2-4 Ed. 3
	Flood lights	Particular requirements - Floodlights	IEC 60598-2-5 Ed. 3
	Self-ballasted LED lamps	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications	
Self-ballasted fluorescent lamps for general lighting services – Safety requirements			IEC 60968 Ed. 3

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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
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
	Industrial environments	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards	IEC 61000-6-2 Ed. 3
	Residential, commercial and	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard	IEC 61000-6-3 Ed. 2.1
	light-industrial environments	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard	IEC 61000-6-4 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 ≤ 16 A per phase and not subject to conditional connection	CISPR 24 Ed. 2.1
Electromagnetic Compatibility (EMC)	Electrical and electronic equipment	EMC immunity requirements	IEC 61000-3-3 Ed. 3
	Equipment for general lighting purposes	Electromagnetic Compatibility of multimedia equipment – Immunity requirements	IEC 61547 Ed. 2
	Surge immunity test for electrical and electronics equipment	Testing and measurement techniques – Surge Immunity Test	IEC 61000-4-5 Ed. 3

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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
	Voltage fluctuation and flicker test on electrical and electronic equipment	Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	IEC 61000-3-2: Ed. 5
	Voltage dips and short interruptions immunity test	Testing and measurement techniques – Voltage dips, short	IEC 61000-4-11 Ed. 2
	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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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
		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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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
		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
		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
	Multimedia equipment	Electromagnetic Compatibility of multimedia equipment – Emission requirements	CISPR 35 Ed. 1

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Electromagnetic Compatibility (EMC)	Multimedia equipment	Electromagnetic Compatibility of multimedia equipment – Emission requirements	CISPR 32 Ed. 2
Battery (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
Information Technology Equipment (ITAV)	IT product	General Safety Requirements for Information Technology Equipment	IEC 60950-1 Ed. 2.2
	Electrical and Electronic Equipment within the field of audio video, information and communication technology, and business and office machines with a rated voltage not exceeding 600V	General Safety Requirement for Audio/video, information and communication technology equipment	IEC 62368-1 Ed. 3.0

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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
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
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
Electric Toy (TOYS)	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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Issue no.	Rev. no.	Details	Date
06	00	Renewal accreditation and first issuance under the name of EIAC (which was formerly known as DAC)	30/05/2019