



مؤسسة الإمارات للمواصفات والمقاييس
Emirates Authority For Standardization & Metrology
Conformity Affairs Department إدارة شؤون المطابقة



EMIRATES CONFORMITY ASSESSMENT SCHEME



REQUIREMENTS FOR REGISTRATION OF LOW VOLTAGE EQUIPMENT

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1. INTRODUCTION:

This document defines the Criteria for the product registration under the Emirates Conformity Assessment Scheme (ECAS) being implemented by the Emirates Authority for Standardization and Metrology (ESMA). The requirements defined in this document are issued for the information, guidance and compliance of Manufacturers and Traders intending to promote and sell their products in the United Arab Emirates.

2. OBJECTIVE:

The United Arab Emirates shall take all appropriate measures to ensure that electrical equipment may be placed on the market or put into service only if, having been constructed in accordance with good engineering practices in safety matters prevailing in the International Community, it does not endanger the safety of persons, domestic animals or property when properly installed and maintained and used in applications for which it was made.

These provisions constitute the essential requirements of the Emirate Conformity Assessment Scheme rules. Before being placed on the market or put into service, the electrical equipment must meet these requirements. This means that the electrical equipment must meet:

2.1 The technical requirements:

The electrical equipment shall be so constructed in accordance with good engineering practices concerning safety. The technical requirements of equipment meeting these safety practices are specified in IEC Standards, UAE Standards or other relevant standards and technical documents. The principal elements of safety objectives that the electrical equipment must meet are listed in **Annex I**.

2.2 The Administrative requirements:

Compulsory procedures and documents implemented by the manufacturer or his authorized representative are imposed by ESMA (e.g. conformity assessment procedures, marking on the product, technical files, declaration of conformity, and instructions for use if relevant).

3. SCOPE:

3.1 Products Covered by this Specific Requirement:

3.1.1 This document prescribes the requirement for the safety of electrical equipment designation for used with input voltage rating between 50 and 1000 volts for alternating

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current and between 75 volts to 1500 volts for direct current. The electrical equipment under this scope is called “Low Voltage Equipment.”

3.1.2 This document shall not apply to the products excluded by UAE / IEC 60335-1. :

4. APPLICABLE STANDARDS AND NORMATIVE REFERENCES

#	UAE STANDARD	EQUIVALENT GULF/INTERNATIONAL STANDARD	TITLE OF STANDARD
1	UAE / IEC 60335-1: 2007	IEC 60335-1 : 2006	Household and similar electrical appliances – Safety – Part 1: General requirements
2	UAE / IEC 60335 – Part 2's	IEC 60335- Part 2's	Refer to Annex 1
3		IEC 60884-1:	Extension cords

5. DEFINITION OF TERMS

5.1 ESMA – The Emirates Authority for Standardization and Metrology. The UAE's Standards body as mandated by Federal Law No. 28. It is the Competent government entity responsible for implementing this Specific Requirement for low voltage appliances.

5.2 Low voltage equipment (LVE) also referred to as “Equipment”: All electrical or electronic equipment including components, parts, finished products, systems and installations, with input voltage rating as indicated in item 3.1.

5.3 Approved Supplier – a manufacturer and/or trader responsible for the product covered by this Specific Requirement.

5.4 Conformity Assessment - any activity to determine directly or indirectly, that a process, product or service meets relevant standards and fulfills relevant requirements

5.5 ECAS Certificate of Conformity – a certificate of conformity issued to the product complying to a relevant UAE Standard/s or to any ESMA recognized National/Regional and International Standards.



5.6 ECAS – Emirates Conformity Assessment Systems

5.7 Specific Requirements - a document specifying the set of rules in order for a product to be registered under ECAS.

5.8 Initial Testing - refers to the verification of product conformance to a specified Product Standards and/or Specific Requirements prior to the registration of Product.

5.9 Recognized Conformity Assessment Body- a competent body recognized by ESMA to carry out factory inspection and/or testing of product.

5.10 Approved Standard – refers to a Product Standard approved by ESMA to be used in verifying conformity of a product.

6. REQUIREMENTS FOR CERTIFICATION

6.1 Compliance of relevant components to be used in manufacturing electrical low voltage equipment to relevant UAE / IEC Standard. Clients are required to submit Manufacturer's Declaration of Conformity and Test Report that to comply with this requirement.

6.2 Manufacturer's / Traders Declaration of Conformity

6.3 Compliance of the Product to the requirements of UAE Standards or its equivalent international standards.

6.4 Compliance of the equipment plugs to:

6.4.1 BS 1363. Plugs with earth and fuse for Class I Appliances

6.4.2 BS 1363 Plugs with a dummy plastic earth pin for Class II Appliances

6.4.3 BS 546 Plug Configurations for 15 Ampere Appliances.

6.5 Users Manual in Arabic and English language.

6.6 Country of Origin marking on the product

6.7 Where applicable, compliance of the product to Tropical Climatic Conditions

7. REGISTRATION PROCEDURE

7.1 Application Submission

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7.1.1 Manufacturers / Traders shall submit a filled ECAS application form together with the following:

7.1.1.1 Manufacturer's / traders Declaration of Conformity for components and products

7.1.1.2 Technical File or technical documentation

7.1.1.3 List of components used and their specifications.

7.1.1.4 Test Reports for major components used.

7.1.1.5 Valid Industry License

7.1.1.6 Proof of Exclusive Distributorship from the manufacturer in case the applicant is a trader or an agent.

7.1.2 Payment of Applicable Fees

7.1.3 Location Map of the Factory and/or warehouse where the product is stored.

7.1.4 Exclusive distributorship from the manufacturer for the trader.

7.1.5 Product Samples

8. CONFORMITY ASSESSMENT PROCEDURE

8.1 Upon the acceptance of the Application, Product shall be evaluated according to a relevant conformity assessment scheme which is written in clause no. 6 of ECAS General Requirements.

8.2 Product shall be defined according and appropriate schemes shall be implemented based upon the risk brought about by the product.

8.3 Samples shall be collected by ESMA for testing as required by relevant standards mentioned in clause 4 of this document.

8.4 Samples shall be tested by an ESMA recognized third party testing laboratory.

8.5 Applicant shall bear all the cost related to the conformity assessment of the product.

9. REGISTRATION OF PRODUCT

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- 9.1 Product shall be registered after a full confirmation that the product is complying with the requirements of the relevant IEC or UAE Standard and by this Specific Requirement.
- 9.2 Where the results of test showed that product is not complying with the requirements, the client needs to rectify the observed non-compliances and can reapply once rectification is made.
- 9.3 An ECAS Registration Certificate shall be issued to the product upon the fulfillment of all the requirements.

10 INSPECTION AND MARKET MONITORING

10.1 Low Voltage Electrical Equipment are being inspected at Port of Entry. Only consignments having valid ECAS Registration Certificates and valid ECAS Mark of Conformity are allowed to enter the country.

10.2 Consignment without the ECAS Registration Certificate shall be held. Ports and Customs authority shall coordinate with ESMA whenever a consignment without ECAS certificated is observed. Appropriate action shall then be taken by both ESMA and the Ports and Customs Authorities.

10.3 Products manufactured in UAE are monitored in the factory, warehouses and in retails shops. Products having ECAS Registration are allowed to be traded in the UAE.

10.4 Registered products being delivered to UAE shall be inspected to ensure continuous compliance. ESMA reserves the right to inspect and conduct inspection of the product being distributed in the market. ESMA shall conduct a regular monitoring of product where ESMA shall take samples either at the retail shops or the manufacturer's warehouse for independent testing. The result of test shall be the basis whether to continue or stop the registration of the product.

10.5 ESMA also reserves the right to conduct at anytime factory inspection to ensure full compliance of the product. The factory inspection shall include amongst other the process and product verification of the product and the manner in which the product are carefully inspected and handled.

10.6 All fees related to market sampling and testing shall be paid by the manufacturer / supplier

11. THE ECAS REGISTRATION CERTIFICATE

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- 11.1 After obtaining the Registration Certificate, the supplier can use the certificate in clearing the registered products at the Ports and Customs Authorities.
- 11.2 The supplier may also use the Certificate in trading their product as a proof that the product has been approved by ESMA.
- 11.3 The ECAS Registration Certificate shall be used only for the registered product. Care should be taken so as not to misused the certificate and nor to use it in such a manner that ESMA may consider misleading.
- 11.4 ECAS Registration Certificate shall be valid for one year. Renewal of registration shall be required a month before the expiration of the Registration Certificate.

12. LIABILITY AND DISCLAIMER

- 12.1 ESMA shall not be held responsible for any action (legal or otherwise) raise by any party against the manufacturers / suppliers on matters resulting from the implementation of ECAS for low voltage equipments
- 12.2 The manufacturer / supplier are ultimately responsible for ensuring that the product meets the requirements of other applicable regulations that were not assessed during the process. This includes quality, safety, health and environmental regulations that are not necessarily covered by the relevant Standards and or the Specific Requirements.
- 12.3 ESMA maintains full confidentiality of all documents submitted by the client

FEES

- a. Application for Registration
- b. Operational fees
- c. Certification Decision Fee

**For more information
Please contact:**

Conformity Affairs Department

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ANNEX 1. PRODUCTS COVERED BY THIS SPECIFIC REQUIREMENTS.

No.	PRODUCTS	STANDARD/S
1	Water Heater	UAE.S / GSO/ IEC 60335-2-21: 2007
2	Extension Cords and Adaptors	UAE.S / GSO / IEC 60884-1: 2007 and Part 2's
3	Electric Irons	UAE.S / IEC 60335-2-3: 2002 5 th Ed.
4	Microwave Ovens	UAE.S / GSO / IEC 60335-2-25: 2007
5	Washing Machines and Clothes Dryers	UAE.S / GSO / IEC 60335-2-4: 2007 + A1:2004
6	Electric Stove	UAE.S / IEC 60335-2-9:2004 Ed. 5.1 (for portable appliances) IEC 60335-2-6: 2002 5 th Ed. (for stationary appliances)
7	Refrigerators and Chillers and Freezers	UAE S. / IEC 60335-2-24: 2002 6 th Ed.
8	Room Air Conditioners	UAE S. / IEC 60335-2-40:2005
9	Household Cooking Appliances	UAE.S IEC 60335-1, UAE.S 60335-2-9, UAE.S 60335-2-13
10	Electromechanical Kitchen Appliances	UAE.S 60335-1, UAE.S 60335-2-14
11	Vacuum Cleaners	UAE.S IEC 60335-1, UAE.S 60335-2-2
12	Fans & Fan Systems including Air-purifiers	UAE.S IEC 60335-1, UAE.S 60335-2-80, UAE.S 60335-2-65
13	Appliances for Heating Liquids	UAE.S IEC 60335-1, UAE.S 60335-2-15
14	Grass Shears/Trimmers	UAE.S IEC 60335-1, UAE.S 60335-2-91, UAE.S 60335-2-94
15	Gas Powered Ovens & Cooking Ranges	UAE.S GSO 1050:2011; UAE.GSO 1049:2011