MUTUAL RECOGNITION ARRANGEMENT ON CONFORMITY ASSESSMENT OF ELECTRICAL AND ELECTRONIC EQUIPMENT

APEC EEMRA
Information Interchange Format

PART 1

Introduction

This format is being prepared to assist member economies participating in the APEC MRA to prepare documentation required for participation in a consistent format.

It is expected that each participating member economy would submit their information in the recommended format to the APEC Secretariat as required by the MRA.

The format is based on the Information Notes on Good Practice for Technical Regulation and therefore provides for information to be supplied for each of the regulatory regimes identified in the notes. There are 7 regimes, they are for products requiring inspection, products requiring licensing, products requiring batch testing, products requiring approval (or certification), products requiring listing or registration, supplier declarations and essential safety requirements. Participating member economies need only provide information relating to the regimes which are in force in their economy. The regimes that are not enforced by the economy need to be noted also, please indicate this by placing 'none' in the standards table on the front of each regime.

Where more than one regulatory system applies within a participating member economy information on each regulatory system should be provided separately.

The format also draws upon the survey on Conformity Assessment of Electrical and Electronic Equipment conducted by the APEC SCSC. The format includes reference to applicable international standards and uses the international convention for describing the relationship of national and international standards, i.e. IDT for identical, MOD for modified, and NEQ for not equal.

When information makes reference to documents or legislation, the documents or legislation should be available on a website for that economy or provided as part of the information supplied to the APEC Secretariat.

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KATS-ROK(Republic of Korea)

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APEC EEMRA Information Interchange Format

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Regime Overview

In order to protect consumer from the risk of electric shock and fire and injuries caused by electrical appliances, the Government of Korea regulates 172 EEE(172 types of electrical appliances) based on Electrical Appliances Safety Control Act, which are equally applied to both domestic and imported products.

Korean Technical regulations (KC) on EEE under the Electrical Appliances Safety Control Act are established based on the International Standards (IEC). Korean government has operated the Electrical Appliances Safety Management System for which permits only electrical appliances certified by the Safety Certification Bodies through the Safety Certification, Safety Confirmation and Supplier's Confirmation of Conformity to be sold. Manufacturers or importer fulfill the safety standard (KC requirements) by product testing and shall affix the KC mark on the products, packages and/or label of their products before the release of the electrical appliances (customs clearance).

The government has designated 45 types of electrical appliances with a relatively high degree of hazard as electrical appliances for Safety Certification, and has allowed the sale of only electrical appliances whose manufacturer (including foreign manufacturers) has obtained the Safety Certification from Safety Certification body.

The three institutes have been designated as Safety Certification Body issuing a Safety Certification Number by the Korean government (Korean Agency for Technology and Standards under the Ministry of Trade, Industry & Energy).

For market surveillance, the government conducts product testing according to the safety standard after buying the product circulated on the market, and then checks whether it has maintained the equal quality to the electrical appliance that was first tested through the Safety certification and confirms the safety certification mark.

1. **PRODUCTS REQUIRING INSPECTION**

> An inspection regime involves the assessment of each product model for compliance with technical standards or regulators.

Nil

2. **PRODUCTS REQUIRING LICENSING**

> Licensing individuals or companies is a conformity assessment regime that assesses the competence of an individual or a company to undertake a specific task.

Nil

3. **PRODUCTS REQUIRING BATCH TESTING**

> A batch testing regime involves a sample test of each batch or shipment of mass produced product. A batch testing regime may also require initial representative model testing as a prerequisite.

Nil

4. **PRODUCTS REQUIRING APPROVAL (OR CERTIFICATION)**

> An approval regime requires the assessment (testing) of a sample or samples for compliance with a standard or specification by a "Regulator" or assessment agency recognised by a regulator. when CB report of the electrical appliance

tested by the international standard (IEC) equal to Korea's safety standard at the testing agency authorized by IEC system for conformity testing and certification of electrical equipment (IECEE/CB) is submitted, the product testing and the parts testing can be exempted.

Products cannot be sold, or imported, until an "approval" is issued for that product.

Products are generally required to be marked or labelled to indicate that they are covered by an approval.

Products covered by approvals (or certification)

Product type or grouping	Standards			Extent of Alignment
	Domestic Standards	**Please tick box if mandatory**	**Relevant International Standards**	
Electric wire, cables and cords	KC 60245-1, KC 60245-2, KC 60502-1, KC 60227-1, KC 60227-2, KC 60502-1, KC 60799	✓	IEC60245-1(Ed4.1), IEC60245-2(Ed2.2), IEC 60502-1(Ed2.1) IEC60227-1(Ed4.1), IEC 60227-2(Ed2.1), IEC 60502-1(Ed2.1), IEC 60799(Ed2.0)	

Product type or grouping	Standards			
	Domestic Standards	**Please tick box if mandatory**	**Relevant International Standards**	**Extent of Alignment**
Switches	KC61058-1, KC60669-1,	✓	IEC 61058-1(Ed3.2), IEC 60669-1(Ed2.0)	
Electronic switch (rated current less than or equal to 300A)	KC60947-4-1	✓	IEC 60947-4-1(Ed3.1)	
Capacitor and power filter	KC 60384-1 KC 60939-1	✓	IEC 60384-1 IEC 60939-1	
Insulation accessories and connection devices	KC 60320-1, KC 60884-1, KC 61242	✓	IEC 60320-1 (Ed2.1) IEC 60884-1 (Ed3.1), IEC61242(Ed1.0)	
Fuse and fuse holder	KC 60127-2, KC 60127-3, KC 60127-4	✓	IEC 60127-2 (Ed2.2) IEC 60127-3(Ed2.0), IEC60127-4 (Ed3.0)	
Circuit breaker to protect equipment	KC 60934, KC 60947-2	✓	IEC 60934 (Ed3.1), IEC 60947-2 (Ed4.0)	
Transformer and voltage regulator	KC 62477-1	✓	IEC 62447-1	
Vacuum cleaner	KC 60335-1	✓	IEC 60335-1	
Electric iron and electric press	KC 60335-1	✓	IEC 60335-1	
Dish washers and dish driers	KC 60335-1	✓	IEC 60335-1	
Heating appliances for kitchen	KC 60335-1	✓	IEC 60335-1	
Washing machine and spin extractor	KC 60335-1	✓	IEC 60335-1	

Product type or grouping	Standards			Extent of Alignment
	Domestic Standards	Please tick box if mandatory	Relevant International Standards	
Appliance for hair care	KC 60335-1	✓	IEC 60335-1	
Warming plate and electric hot cupboard	KC 60335-1	✓	IEC 60335-1	
Kitchen motor-operated machine	KC 60335-1	✓	IEC 60335-1	
Electric liquid heater	KC 60335-1	✓	IEC 60335-1	
Electric blanket, mattress and bed	KC 60335-1	✓	IEC 60335-1	
Fomenting appliance, foot warmer	KC 60335-1	✓	IEC 60335-1	
Storage water heater	KC 60335-1	✓	IEC 60335-1	
Refrigerating appliance, freezer	KC 60335-1	✓	IEC 60335-1	
Microwave oven	KC 60335-1	✓	IEC 60335-1	
Battery charger	KC 60335-1	✓	IEC 60335-1	
Electric dryer	KC 60335-1	✓	IEC 60335-1	
Heating appliance	KC 60335-1	✓	IEC 60335-1	
Electric massager	KC 60335-1	✓	IEC 60335-1	
Air-conditioner and dehumidifiers	KC 60335-1	✓	IEC 60335-1	
Fluid pump	KC 60335-1	✓	IEC 60335-1	
Heating tool	KC 60335-1	✓	IEC 60335-1	
Insect killer	KC 60335-1	✓	IEC 60335-1	
Electric bathtub	KC 60335-1	✓	IEC 60335-1	
Vending machine	KC 60335-1	✓	IEC 60335-1	
Electric fan, range hood	KC 60335-1	✓	IEC 60335-1	

Product type or grouping	Standards			Extent of Alignment
	Domestic Standards	Please tick box if mandatory	Relevant International Standards	
Appliance for toilet	KC 60335-1	✓	IEC 60335-1	
Humidifier	KC 60335-1	✓	IEC 60335-1	
Electric sterilizer	KC 60335-1	✓	IEC 60335-1	
Food waste dispenser	KC 60335-1	✓	IEC 60335-1	
Electric power tools	KC 60335-1	✓	IEC 60335-1	
Copying machines	KC60950-1	✓	IEC 60950-1 2.0	
AC/DC adapter	KC60950-1	✓	IEC 60950-1 2.0	
Uninterruptible power supply	KC60950-1	✓	IEC 60950-1 2.0	
Lamp holder	KC 60238 KC 60400 KC 60838-1	✓	IEC 60238 IEC 60400 IEC 60838-1	
Luminaires	KC 60598-1	✓	IEC 60598-1	
Ballast and lamp controller	KC 60921 KC60923 KC 61347-1 KC 62384	✓	IEC 60921 IEC 60923 IEC 61347-1 IEC 62384	
Self-ballasted lamp	KC 60968 K 10023	✓	IEC 60968 IE 10023	

* Each product based on individudal safety standard is not shown

Description of the Regime

Testing Facilities and Approval (Certification) Agencies

Korea has 12 testing laboratories and 3 safety certification bodies for electronic and electrical equipment.

Labelling Requirements

KC mark and certification number should be labeled on product and/or package

Regulatory and Legislation Requirements
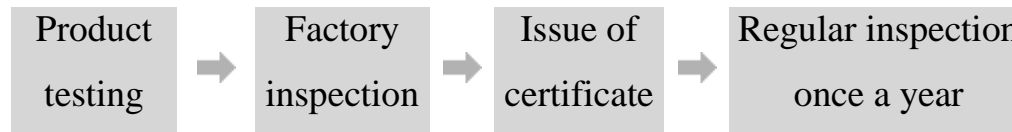
Instruction manual of product should be written by Korean.

Mains Voltage, Frequency and Mains Plug Configuration

Country	Mains Voltage and Tolerance	Mains Frequency and Tolerance	Applicable Legislation	Mains Plug Configuration				
				Domestic Standard	Please tick box if mandatory	Relevant International Standard	Extent of Alignment -	Diagram of Mains Plug Configuration-
Korea	220V	60Hz		• KC60884-1 :Plugs and Sockets-Outlets for household and similar purposes; Part1: General requirements • KC60884-2-1: Plugs and Sockets-Outlets for household and similar purposes; Part2-1 :Particular requirements for fused plugs • KC60884-2-2: Plugs and Sockets-Outlets for household and similar purposes; Part2-1: Particular requirements for fused plugs socket outlets for appliances • KC60884-2-5: Plugs and Sockets-Outlets for household and similar purposes; Part2-5: Particular requirements for Adaptors.	V	IEC 60884-1 Ed.3.0(2002,am.1(2006) IEC 60884-2-1 Ed.1.0(2006(IEC 60884-2-2 Ed.1.0(1999(IEC 60884-2-5 Ed.1.0(1994(		

PRODUCTS REQUIRING LISTING OR REGISTRATION

The government has allowed the sale of only electrical appliances whose manufacturer (including foreign manufacturers) has obtained the Safety Certification by the Safety Certification Body.

<Procedure for Safety Certification, August 18, 2015>

Product testing	➡	Factory inspection	➡	Issue of certificate	➡	Regular inspection once a year

* The production facilities, product testing equipment, technical capability and manufacturing process are checked during the factory inspection, and the routine inspection is done once a year.

Listing/registration is similar to approvals except that there is no direct activity by the regulatory agency before a product is placed onto the market

Pre-market surveillance over traded goods produced domestically, shall be done through Safety Certification Number. Safety Certification Number shall be issued by Safety Certification Body. Manufacturers or importer fulfill the safety standard (KC requirements) by product testing. And then Manufacturers or importer shall affix the KC mark ( ) and Product Certification Number on the products and packages.

■ **Safety Certification Number Issuance Process**

Applicant | Certification agency

| Fill in the application form | → | Receive the application form |

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Factory inspection (on the application for Safety Certification)

↓

Product testing

↓

Make the Safety Certificate (on the safety certification)

↓

| Issue the Safety Certificate Number (safety test certificate) | ← | Decide |

45 Days