Mutual Recognition Arrangement on Conformity Assessment of Electrical and Electronic Equipment - APEC EEMRA Information Interchange Format Part 1 - Malaysia

Purpose: Information
Submitted by: Malaysia
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.
APEC EEMRA Information Interchange Format

Contact Points:

MOHD ELMI ANAS
elmi@st.gov.my
+60128102355
**PART I – INFORMATION EXCHANGE**

**Regime Overview**
The government agency responsible for electrical appliances is the Energy Commission. The Energy Commission regulates 34 categories of electrical appliance.

**Legislative References**

<table>
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<tr>
<th>Legislation Applicable</th>
<th>Scope of the Legislation</th>
<th>Government Agency</th>
</tr>
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<tbody>
<tr>
<td>Electricity Supply Act 1990 [Act 447]</td>
<td>An Act to provide for the regulation of the electricity supply industry, the supply of electricity at reasonable prices, the licensing of any electrical installation, the control of any electrical installation, plant and equipment with respect to matters relating to the safety of persons and the efficient use of electricity and for purposes connected therewith. Create the Superintendence of Electricity and Fuels and set up their attributions</td>
<td>Energy Commission</td>
</tr>
<tr>
<td>Electricity Regulations 1990</td>
<td></td>
<td>Energy Commission</td>
</tr>
</tbody>
</table>
1. **PRODUCTS REQUIRING INSPECTION**

   All regulated electrical appliance shall be approved (CoA) by Energy Commission and affixed with label.

2. **PRODUCTS REQUIRING LICENSING**

   All regulated electrical appliance shall be approved (CoA) by Energy Commission and affixed with label.

3. **PRODUCTS REQUIRING BATCH TESTING**

   All regulated electrical appliance shall be approved (CoA) by Energy Commission and affixed with label in the manner which has been determined by Commission. Importer who has passed consignment / batch testing shall purchase SIRIM-ST label and affixed on each of the appliance.

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

   All regulated electrical appliance shall be approved (CoA) by Energy Commission and affixed with label.
## Products covered by approvals

<table>
<thead>
<tr>
<th>No</th>
<th>Category</th>
<th>Description of Regulated Equipment</th>
<th>Detail of Equipment</th>
<th>Standards</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td>National Standard</td>
</tr>
</tbody>
</table>
| 1  | PLUG TOP/PLUG | (a) Plug  
- makes a detachable connection between the contacts of a socket-outlet and the conductors of a flexible cord;  
- has insulating sleeves on the line and neutral plug pins for insertion into a socket-outlet; and  
- has a maximum rating of 15 A.  
(b) Coupler  
- is for attachment to a flexible cord; and  
- makes a detachable connection between the conductors of the cord and the pins or contacts of any low voltage appliance or equipment of a type intended or generally used for household applications  
(c) Adaptor  
- extends supply from a socket-outlet;  
- incorporates one or more integral socket-outlets; and  
- has insulating sleeves on the line and neutral plug pins.  
(d) Connector  
- connecting devices for the connection of two or more electrical copper conductors. | Flat Non-Rewirable Two Pole Plug with supply cord (max. 2.5A)  
13 A Fused Plug  
15 A Plug  
Appliance Coupler  
Interconnection Coupler  
Adaptor (Multiways)  
Integrated Adaptor  
Travel Adaptor  
Electrical Connector (connecting device)  
Connecting device with screw type clamping unit | MS 1578:2003  
BS EN 50075:1991  
MS 589-1:2011  
BS 1363 PT.1: 1995  
+A1, A2, A3  
MS 589-3:2012  
BS 1363 PT.3:1995  
+A1, A2, A3  
MS 1144:1998  
BS 5733:2010  
No corresponding MS  
No corresponding MS  
IEC 60884-1:2006  
IEC 60884-2-5:1995  
IEC 60998-1:2005  
IEC 60998-2-1:2002  
IEC 60998-1:2002  
IEC 60998-2-1:2002  
IEC 60998-1:2002  
IEC 60998-2-1:2002  
IEC 60998-1:2002  
IEC 60998-2-1:2002 | |
| 2  | SWITCH AND DIMMER | (a) Switch  
- is an air-break switch;  
- is for connection to the wiring of an electric device. | General Purpose Switch  
Door Bell & Chime | MS IEC 60669-1:2012  
MS IEC 61558-1:2005  
MS IEC 60669-1:2007  
MS IEC 61558-1:2009 | |

---

1. **PLUG TOP/PLUG**
   - **(a) Plug**
     - Makes a detachable connection between the contacts of a socket-outlet and the conductors of a flexible cord.
     - Has insulating sleeves on the line and neutral plug pins for insertion into a socket-outlet.
     - Has a maximum rating of 15 A.
   - **(b) Coupler**
     - Is for attachment to a flexible cord.
     - Makes a detachable connection between the conductors of the cord and the pins or contacts of any low voltage appliance or equipment of a type intended or generally used for household applications.
   - **(c) Adaptor**
     - Extends supply from a socket-outlet.
     - Incorporates one or more integral socket-outlets.
     - Has insulating sleeves on the line and neutral plug pins.
   - **(d) Connector**
     - Connecting devices for the connection of two or more electrical copper conductors.

2. **SWITCH AND DIMMER**
   - **(a) Switch**
     - Is an air-break switch.
     - Is for connection to the wiring of an electric device.
   - **(b) Door Bell & Chime**
installation; • is primarily for mounting on a vertical surface • is manually opened and manually closed; and • has a rating up to 63A.

Cooker Control Unit No corresponding MS BS 4177:1992

3 SOCKET OUTLET
(2) Socket Outlet • is for fixing at a point at which fixed wiring terminates; • provides a detachable connection with the pins of a plug; • has two, or three contacts; • and has a maximum rating of 15 A; • with switch and without switch socket outlet.

15A socket outlet & Plug MS 1577:2003 No corresponding international standard
Portable 2 pin socket outlet class II MS 1579:2003 No corresponding international standard
Portable cable reel MS 1141:2006 IEC 61242:2008 with modification

(b) Portable A device comprising a flexible cable or cord attached to a reel so constructed that the flexible cable may be completely wound onto the reel, and provided with a plug and one or more socket outlets.

4 FLUORESCENT LAMPHOLDER
(a) Lamp Holder • holds tubular fluorescent lamp but does not include:

Lamp holder for tubular fluorescent lamp MS IEC 60400: 2006 IEC 60400: 2004

(b) Starter Holder to hold a glow starter but does not include: a starter holder which by design is restricted to specific appliances.

Starter holder for tubular fluorescent lamp MS IEC 60400: 2006 IEC 60400: 2004

5 CEILING ROSE • a terminal for connection to a lamp holder via a cable.

Ceiling Rose MS 770:1982 BS 67:1987

• Edison Screw Lamp holder lamp holders with Edison screw thread E14, E27 and E40, designed for holding and connecting to the supply of lamps.


6 BAYONET CAP and MULTIWAYS • holds a bayonet cap lamp bayonet cap adaptor

Bayonet cap Lamp holder No corresponding MS BS 61184:2008+A1

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<tr>
<th>No</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>SOCKET OUTLET</td>
<td>(2) Socket Outlet • is for fixing at a point at which fixed wiring terminates; • provides a detachable connection with the pins of a plug; • has two, or three contacts; • and has a maximum rating of 15 A; • with switch and without switch socket outlet.</td>
<td>Electric Shaver Socket Outlet MS IEC 61558-1:2005 IEC 61558-1:2009 MS IEC 61558-2-5:2006 IEC 61558-2-5:2010</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>FLUORESCENT LAMPHOLDER</td>
<td>(a) Lamp Holder • holds tubular fluorescent lamp but does not include:</td>
<td>Lamp holder for tubular fluorescent lamp MS IEC 60400: 2006 IEC 60400: 2004</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>CEILING ROSE</td>
<td>• a terminal for connection to a lamp holder via a cable.</td>
<td>Ceiling Rose MS 770:1982 BS 67:1987</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>BAYONET CAP and MULTIWAYS</td>
<td>• holds a bayonet cap lamp bayonet cap adaptor</td>
<td>Bayonet cap Lamp holder No corresponding MS BS 61184:2008+A1</td>
<td></td>
</tr>
</tbody>
</table>
but does not include:

- a lamp holder, which by design, is restricted to specific appliances
- a lampholder which is for incorporation in an industrial equipment

### LAMP FITTING

<table>
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<tr>
<th>Type</th>
<th>Description</th>
<th>Detail of Equipment</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Luminaires</td>
<td>Provides illumination; incorporates electric light sources for operation from supply voltage up to 1000V.</td>
<td>Fixed general purpose Luminaires (excluding Tube/Bulb), Batten Luminaires (excluding Tube/Bulb), Luminaries with self-ballasted fluorescent lamp.</td>
<td>MS IEC 60598-1:2012 MS IEC 60598-2-1:1997 MS IEC 60598-2-1:1987</td>
</tr>
<tr>
<td>(b) Glow Starter</td>
<td>Is for starting preheat type fluorescent lamps; is a glow-start type; and has an enclosure of insulating material holds a light source or bulb.</td>
<td>Slow-starter for tubular fluorescent</td>
<td>MS IEC 60155: 1996 MS IEC 60155:2006</td>
</tr>
<tr>
<td>(c) Self-ballasted Compact Fluorescent Lamp (CFL)</td>
<td>Lamp which cannot be dismantled without being permanently damaged, provided with a lamp cap incorporating a light source and any elements necessary for starting and stable operation of the light source.</td>
<td>Lamp controlgear with Edison screw or bayonet caps</td>
<td>MS IEC 60968:2006 MS IEC 60968:2006</td>
</tr>
</tbody>
</table>
### Ballast / Control Gear / Driver for Lamp

<table>
<thead>
<tr>
<th>No</th>
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<th>Description of Regulated Equipment</th>
<th>Detail of Equipment</th>
<th>Standards</th>
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</thead>
<tbody>
<tr>
<td>9</td>
<td>BALLAST / CONTROL GEAR / DRIVER FOR LAMP</td>
<td>(a) Ballast</td>
<td>Magnetic Ballast for tubular fluorescent lamp</td>
<td>MS IEC 61347-1: 2012 MS IEC 61347-2-8:2003 MS 141 PT-2:1993+A1</td>
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<tr>
<td></td>
<td></td>
<td>• is for controlling the magnitude of current flowing through the discharge path of a fluorescent lamp,</td>
<td></td>
<td>IEC 61347-1:2010 IEC 61347-2-8:2000 IEC 60921:2004 with modification</td>
</tr>
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<td></td>
<td></td>
<td>• is of the independent or built-in type intended for use with luminaires (portable or fixed); or</td>
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<td></td>
<td>• is of the integral type such that it forms a non-replaceable part of a fluorescent lamp/ballast combination; or</td>
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<td>• is of the adaptor type such that it allows the</td>
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### Circuit Breaker

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<tr>
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<th>Detail of Equipment</th>
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</thead>
<tbody>
<tr>
<td>10</td>
<td>CIRCUIT BREAKER including AC CURRENT OPERATED EARTH LEAKAGE CIRCUIT BREAKER and MINIATURE CIRCUIT BREAKER</td>
<td>insertion of a fluorescent lamp into the ballast by the user; but does not include: • a ballast which is incorporated in luminaires certified for compliance with the requirements for electrical equipment with increased safety type protection (Ex) for use in hazardous locations.</td>
<td>Control Gear</td>
<td>MS IEC 61347-1:2012 IEC 61347-1:2010</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Control Gear</td>
<td>General safety for lamp controlgear for use on dc supply up to 250V and or ac supply up to 1000 V</td>
<td>Control Gear</td>
</tr>
</tbody>
</table>
• has a rated residual current less than 300mA for devices intended for connection to fixed wiring or 10mA for other devices; and
• has a rated load current not exceeding 125 A for devices intended for connection to fixed wiring or 20 A for other devices.

but does not include:
• a device intended to be used with a particular circuit-breaker other than
• a miniature overcurrent circuit-breaker; or
• a device intended to protect an electricity supply authority distribution system.

(b) Fuse

• is an enclosed air-break

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<tr>
<td></td>
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<td>switch;</td>
<td>Fuse Base &amp; Carrier up to 32A</td>
<td>MS IEC 60269-2: 2011</td>
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<td></td>
<td></td>
<td>opens a low voltage circuit</td>
<td>Fuse/Fuse Link up to 63A</td>
<td>MS IEC 60269-2: 2011</td>
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<td>automatically under pre-determined conditions of over-current;</td>
<td>Switch fuse up to 63A</td>
<td>MS IEC 60269-3: 2011</td>
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<td>has a nominal rating not exceeding 125 A and has a current breaking capacity of up to 10kA.</td>
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<td>is by the fusion of one or more of its specially designed and proportioned components, opens the circuit in which it is inserted and breaks the current when this exceeds a given value for a sufficient time. The fuse comprises all the parts that form the complete device.</td>
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<td>is a household type; Standing Lamp &amp; adaptor, provides illumination or for decorative purposes, produces light;</td>
<td>Standing Lamp with detachable or non-detachable mains supply flexible cord, Table Lamp with detachable or non-detachable mains supply flexible cord, Portable LED Lamp</td>
<td>MS IEC 60598-1: 2012</td>
</tr>
<tr>
<td></td>
<td>PORTABLE LUMINAIRE LAMP</td>
<td>is fitted with a supply flexible cord, an appliance inlet socket or a power supply unit with integral pins for insertion into a socket outlet;</td>
<td></td>
<td>MS IEC 60598-2-4: 2003</td>
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<td>is for standing on a table or floor, or is fitted with a clamp or similar for attachment to vertical or horizontal surfaces; is for use with tungsten filament, tubular</td>
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</tbody>
</table>

|     |          | MINIATURE CIRCUIT BREAKER (MCB) for ac supply |                         |                       |                       |
fluorescent or other discharge lamps; and
• is constructed to represent a model, person or animal
  and is likely to be treated by a child as a toy; or
• has metal parts which are required to be earthed or double insulated from live parts (excluding live parts of an all insulated lampholder).
• is for inspection purposes Hand Lamp & adaptor,
• holds a light source or bulb; and
• is hand held; but does not include hand lamp with a

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<td>12</td>
<td>KETTLE including HEATING ELEMENTS IF SUPPLIED SEPARATELY</td>
<td>magnification facility, • is a household type; • is portable; • has a capacity not exceeding 10L; and • heats liquid for: &gt; humidifying room air; or &gt; hot beverage; or &gt; cooking purpose</td>
<td>Warming Plate</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-12:2014</td>
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<td>IEC 60335-1:2006 IEC 60335-2-12:2002</td>
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<td></td>
<td>Water Dispenser/Filter</td>
<td>MS IEC 60335-1:2005</td>
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<td></td>
<td>IEC 60335-1:2004</td>
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<td>Water Dispenser - Cold</td>
<td>MS IEC 60335-1:2005 MS 1597-2-24:2005</td>
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<td>No</td>
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<tr>
<td>13</td>
<td>KITCHEN MACHINE</td>
<td>• is a household type; • is for the preparation of food by mechanical means; • is for opening cans; or • is for sharpening of knives</td>
<td>Blender, Chopper, Food Processor, Juice Extractor, Grinder, Mixer.</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-14:2014 IEC 60335-1:2006 IEC 60335-2-14:2002</td>
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</thead>
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<td>14</td>
<td>TOASTER / OVEN (Cooking Appliance)</td>
<td>• is a household type; and • is for toasting bread or similar food; • is for cooking or warming food by electrical energy; • applies heat to food, liquid or other substances in a chamber by means of high-frequency electromagnetic radiation.</td>
<td>Stationary Electric Oven, Induction Hob.</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-6:2014 IEC 60335-1:2006 IEC 60335-2-6:2005</td>
</tr>
<tr>
<td>15</td>
<td>RICE COOKER</td>
<td>• is a household type; and • is used for cooking rice</td>
<td>Rice Cooker</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-15:2004 IEC 60335-1:2006 IEC 60335-2-15:2002</td>
</tr>
<tr>
<td>16</td>
<td>REFRIGERATOR</td>
<td>• is a household type; and • cools and stores food. But does not include – • a type, promoted exclusively to industry/ commercial sector.</td>
<td>Refrigerator, Freezer, Minibar.</td>
<td>MS IEC 60335-1:2013 MS 1597: Part 2-24:2005 IEC 60335-1:2006 IEC 60335-2-24:2005 with modification</td>
</tr>
<tr>
<td>17</td>
<td>IMMERSION WATER HEATER</td>
<td>• is a household type; • is for heating liquid in which it may be immersed; and • is self contained; and includes – • aquarium type immersion heaters</td>
<td>Fixed Immersion Heater, Portable Immersion Heater</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-73:2014 IEC 60335-1:2006 IEC 60335-2-73:2009</td>
</tr>
<tr>
<td>18</td>
<td>WATER HEATER including HEATING ELEMENTS IF SUPPLIED SEPARATELY</td>
<td>(a) Storage • is for heating and storage of water for bathing, washing or similar purposes; • incorporates a heating element; and • has a storage capacity not</td>
<td>Storage Water Heater</td>
<td>MS IEC 60335-1:2013 MS 1597-2-21:2011 IEC 60335-1:2006 IEC 60335-2-21:2004 with modification</td>
</tr>
<tr>
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<td>Detail of Equipment</td>
<td>Standards</td>
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<td></td>
<td>Cloth Dryers (on rack located)</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-43:2014</td>
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<td>• household type; • for washing and rising dishes.</td>
<td>Dish Washer and other utensils.</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-5:2005</td>
</tr>
<tr>
<td>20</td>
<td>FAN</td>
<td>• is a household type; • has a primary function of moving air in its vicinity; and • is self contained;</td>
<td>Moving-louver fan, Ceiling fan, Auto fan, Pedestal fan, Table fan, Wall fan &amp; applies to their separate regulators and with blade.</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-80:2010 MS IEC 1220:2010</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Ventilating fan, Decorative fan &amp; applies to their separate regulators and fan without blade.</td>
<td>MS IEC 60335-1:2013 MS IEC 1597-2:80:2010</td>
</tr>
<tr>
<td>21</td>
<td>HAND</td>
<td>• is a household type or a commercial hand-held</td>
<td>Hair Dryer, Hair Styling Set,</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-23:</td>
</tr>
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<td>No</td>
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<td>---------------------------------------------------------------------------</td>
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</tbody>
</table>
| 22 | IRON           | • is a household type; and  
• is for smoothening or pressing fabric by the application of heat or steam;  
• is hand held except for any separate steam generator, and includes:  
| 23 | SHAVER         | • is a household type; and  
| 24 | VAPORISER      | • is a household type; and  
| 25 | VACUUM CLEANER | • is a household type; and  
• portable; and  
• removes dust, dirt or moisture and the like from floor coverings by suction, or  
• removes garden refuse from lawns or paths and the like by suction. but does not include -  
| 26 | HI-FIDELITY SET| • is a household type; and  
• is for reproduction of sound, with little distortion, connected to the supply mains as the only energy source, intended for domestic and similar general indoor use with a rated supply voltage not exceeding 250 volts.  
• An electronic device for reproduction of audio/ video, connected to the supply mains, either directly or indirectly and intended for domestic and similar general indoor use.  
• A system of audio /video components, that is intended for entertainment and can be used for various purposes.  
• The system must include a power supply, a signal source, and a signal processor.  
• The system must have at least two speakers and an amplifier.  
• The system must have at least one video player/ recorder.  
• The system must have at least one audio player/ recorder.  
• The system must have at least one remote control.  
• The system must have at least one power outlet.  
• The system must have at least one input source.  
• The system must have at least one output source.  
• The system must have at least one storage device.  
• The system must have at least one display device.  
• The system must have at least one control device.  
• The system must have at least one communication device.  
• The system must have at least one power supply device.  
• The system must have at least one input interface.  
• The system must have at least one output interface.  
• The system must have at least one storage interface.  
• The system must have at least one display interface.  
• The system must have at least one control interface.  
• The system must have at least one communication interface.  
• The system must have at least one power supply interface.  
• The system must have at least one input source interface.  
• The system must have at least one output source interface.  
• The system must have at least one storage source interface.  
• The system must have at least one display source interface.  
• The system must have at least one control source interface.  
• The system must have at least one communication source interface.  
• The system must have at least one power supply source interface.  
• The system must have at least one input interface source.  
• The system must have at least one output interface source.  
• The system must have at least one storage interface source.  
• The system must have at least one display interface source.  
• The system must have at least one control interface source.  
• The system must have at least one communication interface source.  
| 27 | VIDEO and VISUAL DISPLAY UNIT | • is for household use;  
• is for receiving and displaying information.                                                               | Electronic appliances such as: LCD,          | MS IEC 60065:2007, or IEC 62368-1:2014 |
<table>
<thead>
<tr>
<th>No</th>
<th>Category</th>
<th>Description of Regulated Equipment</th>
<th>Detail of Equipment</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>from a transmitting station or local source</td>
<td>LED, Plasma, CRT, and similar to it.</td>
<td>[ ]</td>
</tr>
<tr>
<td>28</td>
<td>AUDIO and VIDEO PLAYER UNIT</td>
<td>• is a household type. • is for video recording and playback or for playback only, connected to the supply mains either directly or indirectly and intended for domestic and similar general indoor use.</td>
<td>VCD, Laser Disc, Video Cassette Recorder, DVD, Video Rewinder, Children Video Game.</td>
<td>MS IEC 60065: 2007 IEC 60065: 2005 IEC 62368-1: 2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• is a household type.</td>
<td>Foot Massagers, Massage Bed, Massage Chair, Massage Pads, Handheld Massagers, Massage Belts.</td>
<td>MS IEC 60335-1:2013 MS IEC 60335-2-32:2014</td>
</tr>
<tr>
<td>30</td>
<td>AIR CONDITIONER (Cooling Capacity of 32,000 Btu/hr &amp; below)</td>
<td>• A electrical assembly to provide delivery of conditioned air to an enclosed space, room or zone, including an electrically operated refrigeration system for cooling and possibly dehumidifying the air.</td>
<td>Split Air-conditioner, Portable Air-conditioner, Ceiling Air-conditioner</td>
<td>MS IEC 60335-1:2013 MS 1597-2-40: 2005 IEC 60335-1:2006 IEC 60335-2-32:2008 IEC 60335-2-40:2005 with modification</td>
</tr>
<tr>
<td>31</td>
<td>CHRISTMAS LIGHT</td>
<td>• is for decorative, display or illumination purposes; and consists of - lamps or lampholders interconnected by flexible cord of less than 2.5mm² cross-sectional area; or - lamps within a flexible enclosure; and includes – any integral power supply or control device.</td>
<td>Lighting Chain, Rope Light, Decorative / Festive Light.</td>
<td>MS IEC 60598-1: 2012 MS IEC 60598-2-20:2013 IEC 60598-1:2008 IEC 60598-2-20:2010</td>
</tr>
<tr>
<td>32</td>
<td>DOMESTIC POWER TOOLS (Portable Type)</td>
<td>• is for machining, drilling, sawing, or surface preparation; and • may be entirely supported by hand during operation, but does not include - • a tool, portable type, promoted exclusively to the industry/commercial sector.</td>
<td>Drill (Drill bit size up to 15 mm) Grinder (up to 100 mm) Sander (up to 300 W) Circular Saw and circular knife (Cutting Blade up</td>
<td>MS IEC 60745-1:2010 MS IEC 60745-2-1:2011 MS IEC 60745-1:2010 MS IEC 60745-2-3:2010 MS IEC 60745-1:2010 MS IEC 60745-2-4:2011 MS IEC 60745-1:2010 MS IEC 60745-2-5:2010</td>
</tr>
<tr>
<td>No</td>
<td>Category</td>
<td>Description of Regulated Equipment</td>
<td>Detail of Equipment</td>
<td>Standards</td>
</tr>
<tr>
<td>----</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>National Standard</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IEC 60745-1:2010</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Spray gun for non-flammable liquid (up to 100 bars)</td>
<td>MS IEC 60745-1:2010</td>
<td>IEC 60745-1:2006</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Jig and Sabre Saw (up to 60 mm)</td>
<td>MS IEC 60745-1:2010</td>
<td>IEC 60745-1:2006</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Planer (up to 500 W)</td>
<td>MS IEC 60745-1:2011</td>
<td>IEC 60745-1:2006</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Trimmer (up to 300 W) Hedge trimmer and Grass shears (up to 750 W)</td>
<td>MS IEC 60745-1:2010</td>
<td>IEC 60745-1:2006</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Router and trimmer (up to 500 W)</td>
<td>MS IEC 60745-1:2010</td>
<td>IEC 60745-1:2006</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IEC 60745-2-17:2012</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IEC 60745-2-17:2012</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>High Pressure Cleaner</td>
<td>MS IEC 60335-1:2013</td>
<td>IEC 60335-1:2006</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Sewing Machine</td>
<td>MS IEC 60335-1:2013</td>
<td>IEC 60335-1:2006</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Portable Heating Tool such as: Soldering Gun, Soldering Iron, Heat Gun, Hot Air Firelighters, Glue gun.</td>
<td>MS IEC 60335-1:2013</td>
<td>IEC 60335-1:2006</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>Portable Battery Charger (up to 12 V)</td>
<td>MS IEC 60335-1:2013</td>
<td>IEC 60335-1:2006</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>Adapter for IT Equipment (up to 20V)</td>
<td>MS IEC 60950-1:2007</td>
<td>IEC 60950-1:2005</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>or IEC 62368-1:2014</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>A.C. - D.C. Adapters A device to supply a.c. or d.c. power supply from an a.c. or d.c. source, either by General electrical appliances Electronic Isolating</td>
<td>MS IEC 61558-1:2005</td>
<td>IEC 61558-1:1998</td>
</tr>
</tbody>
</table>

**Notes:**
- **Soldering Gun,** **Soldering Iron,** **Heat Gun,** **Hot Air Firelighters,** **Glue gun** are for the application or removal of solder; and
- **A.C. - D.C. Adapters** are a household type and are for charging batteries other than those of the automotive type; and
- **Portable Battery Charger** is a household type and is for charging batteries other than those of the automotive type; it is for charging one or more batteries for use in other equipment; it is for charging battery for use in mobile phone/PDA; it is imported or manufactured separately (detachable).
- **Adapter for IT Equipment** is hand held; but does not include - **Soldering Iron** promoted exclusively to industry.
<table>
<thead>
<tr>
<th>Transformer</th>
<th>Switching mode power supply</th>
<th>Electric toys</th>
<th>Audio video equipment</th>
<th>IT &amp; Office products</th>
<th>Shavers</th>
</tr>
</thead>
</table>

WIRE / CABLE / CORD (non-armoured) 0.5mm² to 35mm²

<table>
<thead>
<tr>
<th>Core</th>
<th>Wire Material</th>
<th>Cross-Sectional Area</th>
<th>Dimensions</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Polyvinyl chloride (PVC) insulated flexible cord and cable</td>
<td>0.5mm² not exceeding 35mm²</td>
<td>Flexible ; Insulated flexible cord</td>
<td>MS 2112-5:2009</td>
</tr>
</tbody>
</table>

5. Testing Facilities and Approval (Certification) Agencies

SIRIM QAS International Sdn Bhd (Sirim) MALAYSIA
Labelling Requirements

LABELLING OR CERTIFICATION MARK

A. Objective and rationale

Labeling or marking of regulated electrical equipment will enable consumers to differentiate between the approved and non-approved regulated electrical equipment. It also serves as a deterrent and a means to check for non-approved regulated electrical equipment in the market.

B. Labeling or Marking

All regulated electrical equipment approved by the Commission must be labeled or marked in accordance with regulation 98 of the Electricity Regulations 1994 and shall be done in the manner which has been determined by the Commission as below:

i) Sticker Type
There are two types of SIRIM-ST label which shall be affixed on the equipment.

a) SIRIM-ST label (BATCH)
Importer who has passed Consignment Test shall purchase SIRIM-ST label and affix on each of equipment. The Word BATCH printed on the label shows that the imported equipment gone through BATCH Consignment Test. Sample of the label is as shown below:

![New SIRIM-ST Label](image1)

![Old SIRIM-ST Label](image2)

*Figure 3: SIRIM-ST label for Imported*

b) SIRIM-ST label
Local manufacturer and importer who have entered PCS shall purchase SIRIM-ST label and affix on each equipment. Sample of the label is as shown below:

![New SIRIM-ST Label](image3)

![Old SIRIM-ST Label](image4)

*Figure 4: SIRIM-ST label for Locally Manufactured and Imported Equipment*
ii) Embossed Type

a) For manufacturer or importer which participated in SIRIM-ST Label Licensing Programmed, they may use the SIRIM Certification Mark as shown in Figure 5 below.

![SIRIM Certification Mark](image)

SIRIM CERTIFIED TO YY : XXXX
CERTIFICATION NO: xxxxxxxx
SIRIM-ST Label Licensing Programme

Figure 5: SIRIM Certification Mark

b) For small regulated electrical equipment such as lampholder, starterholder, glow starter and cable, SIRIM Certification Mark shall be emboss in their products.

The manufacturer, importer, exhibitor, seller or advertiser is responsible to ensure that the regulated electrical equipment is affixed with appropriate label or SIRIM Certification Mark whichever is applicable. The Commission will conduct surveillance/enforcement from time to time on manufacturers’ or importers’ premises and distributors’ outlets.

C. Where to affix SIRIM-ST label or SIRIM Certification Mark

The SIRIM-ST label or SIRIM Certification Mark shall be affixed on the regulated electrical equipment itself in a legible manner. The SIRIM-ST label shall not be affixed on the packaging.

D. Requirement for Energy Efficiency (MEPS) Labelling

Products such as television, refrigerator, domestic fan and air conditioner are required to affix with Energy Efficiency label before it can be sold to the consumer. The label as in the energy efficiency labeling guideline shall be followed in accordance to the following specification as shown in Figure 6 below:

(i) Font Specification
(ii) Colour Specification
(iii) 2-Star rating until 5-Star rating

---

1 Details emboss on cable are SIRIM Cert. mark/labs, standards, saiz of cable, manufacture’s company.
D1. Size of EE label and requirement to display on the product

Manufacturer and Importer that have obtain CoA required to print out the EE label by referring to Energy Commission guidelines. EE Labelling guidelines for MEPS products are as below:-

a) Air Conditioner
   - Size for air conditioners energy efficiency label is 9 cm (width) X 13.5 cm (height).
   - Calculation guideline shown as below:-

\[
A = \text{Annual Energy Consumption (kWh)} = \frac{365 \times \text{ Tested cooling capacity (kW)}}{\text{EER of 2-star model}}
\]

For Non-Inverter type:
- \[B = \frac{365 \times \text{ Tested cooling capacity (kW)}}{2.80} \text{ for Cooling capacity < 4.5 kW}\]
- \[B = \frac{365 \times \text{ Tested cooling capacity (kW)}}{2.35} \text{ for Cooling capacity < 7.1 kW}\]

Thus, for cooling capacity < 4.5 kW:
- \[B = \frac{365 \times \text{ Tested cooling capacity (kW)}}{2.80}\]
- \[B = 9.56 \text{ Btu/h/W (Cooling capacity < 4.5 kW)} \times \frac{1}{2.80} = 3.41 \text{ Btu/h/W (Cooling capacity < 4.5 kW)}\]

For Inverter type:
- \[B = \frac{365 \times \text{ Tested cooling capacity (kW)}}{2.35} \text{ for Cooling capacity < 7.1 kW}\]
b) Domestic Fan

- Size for fan’s energy efficiency label is 4 cm (width) × 6 cm (height).
- Calculation guideline shown as below:

\[
A = \text{Annual Energy Consumption (kWh)} = 365 \times 8 \times \text{Power input measured from the test report (kW)}
\]

\[
B = \text{Energy consumption per year for the lowest 2-star rating model (kWh)} = \frac{365 \times 8 \times \text{Tested air delivery capacity (m}^3/\text{min}) \times \text{COP}_{\text{lowest 2-stars model}}}{1000}
\]

Tested air delivery capacity (m}^3/\text{min}) = \text{From test report COP of Lower 2-stars model:}
- 2.58 m}^3/\text{min/W (Ceiling fan)}
- 1.01 m}^3/\text{min/W (Pedestal, Wall and Desk fan)}

Thus,

\[
B (\text{kWh}) = \frac{65 \times 8 \times \text{Tested air delivery capacity (m}^3/\text{min})}{2.58} \times \frac{1}{1000}
\]

for Ceiling fan

\[
B (\text{kWh}) = \frac{65 \times 8 \times \text{Tested air delivery capacity (m}^3/\text{min})}{1.01} \times \frac{1}{1000}
\]

for Pedestal, Wall and desk fan

Percentage energy saving compared to the lowest 2-Stars rating model:

\[
100\% - \left(100 \times \frac{A}{B}\right)
\]

* For ceiling fan, the EE label can be labelled on the packaging.
c) Refrigerator
• Size for refrigerator’s energy efficiency label is 8 cm (width) X 12 cm (height).
• Calculation guidelines shown as below:-

\[
\text{Percentage energy saving compared to the lowest 2-Stars rating model} =
100\% - \left( \left( \frac{100 \times (\text{EEF}_{\text{Lowers 2-star model}})}{\text{EEF}_{\text{Tested}}} \right) \right)
\]

Where:-
\[
\begin{align*}
\text{EEF}_{\text{Lowers 2-star model}} & = 1.028V \text{ adjusted} - 47.475 \text{ (1 door)} \\
\text{EEF}_{\text{Lowers 2-star model}} & = 0.307V \text{ adjusted} + 89.625 \text{ (2 door)} \\
\text{EEF}_{\text{Tested}} & = \text{From test report}
\end{align*}
\]

Annual Energy Consumption (kWh) =
365 x Energy consumption per day in kWh (from test report)

Label affixed

---

d) Television
• Size for television’s energy efficiency label is 7 cm (width) X 11 cm (height).
• Calculation guidelines shown as below:-

\[
\text{Percentage energy saving compared to the lowest 2-Stars rating model} =
100\% - \left( \left( \frac{100 \times (\text{EEF}_{\text{Lowers 2-star model}})}{\text{EEF}_{\text{Tested}}} \right) \right)
\]

Where:-
\[
\begin{align*}
\text{EEF}_{\text{Lowers 2-star model}} & = 0.0016 \times (\text{Screen area, cm}^2) + 8.8 \\
\text{EEF}_{\text{Tested}} & = \text{From test report}
\end{align*}
\]

Annual Energy Consumption (kWh) =
From test report

Label affixed

---

e) Lighting
• Declared lumen per watt (efficacy) and testing hours shall be available at packaging of the individual product.
• For Light Emitting Diode (LED) Lamps:
  1) The Lumens maintenance will be carried out every 1,000 hours until the completion of 6,000 hours. An interim report will be issued after completing the first 1,000 hours. The interim report can be used for CoA application. The test will be continued to complete the 6,000 hours. A final full test report will then be issued to supersede the interim report.

  2) Once the CoA has been issued, the applicant is required to state the Efficacy value onto the packaging of the product together with the number of hours the LED has been tested as per example below:
   
<table>
<thead>
<tr>
<th>Efficacy Value: 55 lm/W</th>
<th>Efficacy Value: 55 lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunray®PC1008-W</td>
<td>Sunray®PC1008-W</td>
</tr>
<tr>
<td>This product has been tested up to 1000 hours</td>
<td>This product has been tested up to 6000 hours</td>
</tr>
</tbody>
</table>

  3) If the product fails after the first 1,000 hours before completing the 6,000 hours, the testing body is required to inform Energy Commission of such failure. The Energy Commission will then not approve the application for the renewal of the CoA.
Regulatory and Legislation Requirements

Requirement to apply for CoA
Amendment of Regulation 97 Subject to regulations 97C, 97D, 97E and 101A, no person shall manufacture, import, display, sell or advertise -
(a) any domestic equipment;
(b) any low voltage equipment which is usually sold directly to the general public; or
(c) any low voltage equipment which does not require special skills in its operation,
unless the equipment is approved by the Commission.

Recognition of foreign conformity assessment body
Regulation 97 (A) (1) For the purposes of certifying any equipment under regulation 97, the Commission shall give a recognition to a foreign conformity assessment body, in a manner that may be determined by the Commission.
Provided that, the foreign conformity assessment body shall be recognised, registered or licensed by the relevant authority in the country in which the foreign conformity assessment body carries on its business.

(2) The Commission shall cease to recognise the foreign conformity assessment body under subregulation (1), if the recognition, registration or licence granted to the foreign conformity assessment body is revoked by the relevant authority.

(3) All test reports, certificates, records or technical files produced by a foreign conformity assessment body in accordance with these Regulations shall be recognised as valid and subsisting for the purposes of this Part, without prejudice to any further testing or assessment to be done to them as the Commission deems necessary.

Registration of local conformity assessment body
Regulation 97 (B) (1) For the purposes of certifying any equipment under regulation 97, a local conformity assessment body shall apply to be registered with the Commission, in a manner that may be determined by the Commission.
Provided that, the local conformity assessment body has been accredited by the accreditation authority.
(2) A local conformity assessment body who is register as conformity assessment body as set out in Form U1 of the First Schedule (as in Appendix I).

(3) A Certificate of Registration issued under subregulation (2) shall be valid for not less than one year and not exceeding three years from the date of issue or renewal of such certificate.

**Registration of manufacturer and importer**

Regulation 97 (C)

(1) Any person who manufactures or imports any equipment under regulation 97 shall apply to be registered with the Commission, in a manner that may be determined by the Commission.

(2) A manufacturer or importer who is registered under subregulation (1) shall be issued with a Certificate of Registration to manufacture or import as set out in Form V1 of the First Schedule (as in Appendix F).

(3) A Certificate of Registration issued under subregulation (2) shall be valid for not less than one year and not exceeding five years from the date of issue or renewal of such certificate.

**Submission of test report or Certificate of Conformity by manufacturer**

Regulation 97 (D)

(1) Any manufacturer issued with a Certificate of Registration under regulation 97C shall submit to the Commission-

a. a test report as to the equipment’s conformity with the safety standards as recognised by the Commission; or

b. a Certificate of Conformity issued by a local conformity assessment body.

(2) A test report under subregulation (1) shall be issued by a testing laboratory accredited by the accreditation authority and the test report shall be valid for not less than one year and not exceeding five years from the date of the report.

(3) A Certificate of Conformity under subregulation (1) shall be valid for not less than one year and not exceeding three years from the date of the certificate.

(4) Upon expiry of a test report or Certificate of Conformity, as the case may be, the manufacturer shall submit a new test report or Certificate of Conformity to the Commission in accordance with this regulation.

(5) A manufacturer who submits a test report or Certificate of Conformity under this regulation shall ensure that such test report or Certificate of Conformity has a validity period of not less than one year before the expiry date.
Submission of test report or Certificate of Conformity by importer.
Regulation 97 (E)  
(1) Any importer issued with a Certificate of Registration under regulation 97 shall submit to the Commission:-
   a. a test report as to the equipment’s conformity with the safety standards as recognised by the Commission; or
   b. a Certificate of Conformity issued by a foreign conformity assessment body recognised by the Commission under regulation 97A.

(2) A test report under subregulation (1) shall be issued by a testing laboratory recognised by the Commission and the report shall be valid for not less than one year and not exceeding five years from the date of the report.

(3) A Certificate of Conformity under subregulation (1) shall be valid for not less than one year and not exceeding three years from the date of the certificate.

(4) Upon expiry of a test report or the Certificate of Conformity, as the case may be, the importer shall submit a new test report or Certificate of Conformity to the Commission in accordance with this regulation.

(5) An importer who submits a test report or Certificate of Conformity under this regulation shall ensure that such test report or Certificate of Conformity has a validity period of not less than one year before the expiry date.

Duties to keep technical files of equipment, etc.
Regulation 97 (F)  
(1) A manufacturer or importer issued with a Certificate of Registration under regulation 97C shall keep all files of any equipment issued together with a test report or Certificate of Conformity, as the case may be, for not less than ten years after the last equipment has left the production line.

(2) A testing laboratory accredited by the accreditation authority, shall keep all technical files of any equipment issued together with a test report for not less than six years after the expiry of that test report.

(3) A local conformity assessment body shall keep all technical files of any equipment issued with a Certificate of Conformity for not less than six years after the expiry of the validity of the Certificate of Conformity.

Marking or labelling of approved equipment
Regulation 98  
Where an equipment has been approved for manufacture, import, display, sale or advertisement by the Commission, the person to whom a Certificate of Approval has been issued under regulation 97 may be required by the Commission to mark or
label the equipment and he shall do so in the manner to be
determined by the Commission.

Samples of equipment to be delivered to Commission
Regulation 99
(1) Any application for a Certificate of Approval of any equipment
referred to in regulation 97 shall be made to the Commission in the
manner to be determined by the Commission.

(2) The applicant shall deliver to the Commission samples of the
equipment in subregulation (1) and such other information in
connection therewith, including drawings, photographs, pamphlets
and technical literature, as the Commission may require.

(3) A sample delivered shall have attached or affixed thereto a label
bearing the following particulars:
   a. the full name of the applicant;
   b. the nature of the equipment;
   c. the energy efficiency of the equipment; and
   d. the catalogue or type number of the manufacturer, or any
      other means of identifying the equipment

(4) The Commission shall not be liable for any loss or damage
caused to any equipment delivered under subregulation (2).

Test and modification before approval
Regulation 100
(1) The Commission may cause one or more samples of the equipment
in regulations 99 to be examined and tested.

(2) Where the Commission considers that the equipment examined
and tested in subregulation (1) is likely to cause danger, the
person applying for approval thereof shall modify or alter the
equipment to suit the Commission’s requirements before
submitting any further samples thereof.

Submission for test and seizure of dangerous equipment
Regulation 101
(1) The Commission may at any time by notice in writing require a
person who manufactures, imports sells and advertises any equipment
to deliver, within such time as may be specified in the notice, samples
of the equipment for an examination and a test thereof.

(2) If any equipment is, in the opinion of the Commission, unsafe or
dangerous or likely to become unsafe or dangerous to use, the
Commission may prohibit the manufacture, import, display,
advertisement or sale of the equipment and may direct the
person in subregulation (1) to withdraw immediately all the
equipment from use or sale and where necessary may seize and
remove such equipment.
(3) The Commission shall not be liable for any loss or damage caused to any equipment delivered or seized and removed under subregulation (1) or (2), as the case may be.

**Efficient use of electricity by equipment**

**Regulation 101A**

(1) For the purpose of efficient use of electricity, prior to an application for a Certificate of Approval under regulation 97, any person who manufactures, imports, sells or offers for sale or lease any equipment under that regulation, shall ensure that such equipment meets the energy performance testing standards, the minimum energy performance standards and the efficiency ratings as set out in the Fourth Schedule.

(2) For the purposes of subregulation (1), a manufacturer or an importer of such equipment shall submit an energy performance testing report in accordance with regulation 101B.

(3) Any equipment that meets all the requirements of efficient use of electricity under subregulation (1) shall be affixed with an efficiency rating label in such form and manner as may be determined by the Commission.

**Energy performance testing report**

**Regulation 101B**

(1) An energy performance testing report under subregulation 101A(2) shall be submitted to the Commission, in a manner that may be determined by the Commission.

(2) An energy performance testing report referred in subregulation (1) shall be valid for not less than one year and not exceeding five years from the date of the report.

(3) Upon expiry of an energy performance testing report, a manufacturer or an importer shall submit a new energy performance testing report to the Commission in accordance with this regulation.

(4) A manufacturer or an importer who submits an energy performance testing report under this regulation shall ensure that such test report has a validity period of not less than one year before the expiry date.

**Submission for test and seizure for the purpose of efficient use of electricity**

**Regulation 101C**

(1) The Commission may, at any time, by notice in writing, require any person who manufactures, imports, sells or offers for sale or lease such equipment as referred to in regulation 101A, to deliver, within such period as may be specified in the notice, samples of the equipment for an examination and a test.

(2) If, in the opinion of the Commission, any equipment which does not fulfill the requirements of efficient use of electricity under regulation 101A, the Commission may prohibit the
manufacturing, importing, selling or offering for sale or lease of the equipment and may direct the person referred to in subregulation (1) to withdraw or recall within the stipulated period, all the equipment from manufacturing, importing, selling or offering for sale or lease and where necessary, may seize and remove such equipment.

(3) The Commission shall not be liable for any loss or damage caused in the delivery or seizure and removal of equipment under subregulation (1) or (2), as the case may be.

Renewal of Certificate of Registration
Regulation 102

The renewal of any Certificate of Registration issued under regulation 97B and 97C shall be made not less than fourteen days before the date of expiry of the Certificate.

Transfer of Certificate of Registration
Regulation 103

(1) No Certificate of Registration issued under regulation 97B and 97C shall be transferred by the holder of the Certificate to any other person except with the written permission of the Commission.

(2) The holder of any Certificate of Registration issued under regulation 97B and 97C shall obtain approval from the Commission in writing for any change of name or address in connection with the business and the Certificate shall be amended or replaced without payment of any fee.

Cancellation of Certificate of Registration
Regulation 104

(1) The Commission may cancel a Certificate of Registration issued under regulation 97B and 97C if –
   a. the holder of the Certificate ceases to carry on the business in respect of which he is registered;
   b. the holder of the Certificate has been adjudicated a bankrupt;
   c. the company goes into liquidation;
   d. the holder of the Certificate or his servant or agent contravenes or fails to comply with any provisions of the Act or these Regulations; or
   e. the holder of the Certificate has obtained the Certificate by making or causing to be made any false or fraudulent declaration, certification or representation, either in writing or otherwise.

(2) Where a Certificate of Registration is cancelled by the Commission pursuant to subregulation (1), the Certificate shall be returned to the Commission by the person, to whom the Certificate was issued, within fourteen days of the person being notified in writing of the cancellation.
Removal from and reinstatement to the Register of Certificate of Registration

Regulation 105

(1) There shall be removed from the Register the name and other particulars of any person whose Certificate of Registration was issued under regulation 97B and 97C –
   a. where he has failed to renew his Certificate of Registration by the date of expiry thereof; or
   b. where his Certificate of Registration has been cancelled under regulation 104.

(2) A person whose name has been removed from the Register under subregulation (1) may appeal, within thirty days of the removal from the Register, for reinstatement and the Commission, upon receipt of satisfactory evidence or reasons for his reinstatement, may register him again.

(3) The person referred to in subregulation (2) who feels aggrieved by the decision of the Commission not to reinstate him may apply to the Minister for re-consideration of the matter.

(4) The application under subregulation (3) shall be made in writing within twenty-one days from the date of the decision of the Commission and shall contain the grounds of grievance.

(5) The decision of the Minister on the matter referred to him under subregulation (3) shall be final.

Renewal of CoA

Regulation 106

Renewal of a Certificate of Approval issued under regulation 97 shall be made not less than 14 days before the date of expiry of the Certificate.

Transfer of CoA

Regulation 107

(1) No Certificate of Approval issued under regulation 97, shall be transferred by the holder of the Certificate to any other person except with the written permission of the Commission.

(2) The holder of a Certificate of Approval issued under regulation 97, shall obtain approval from the Commission in writing for any change of name or address in connection with the business and the Certificate shall be amended or replaced without payment of any fee.

Cancellation of CoA

Regulation 108

(1) The Commission may cancel a Certificate of Approval issued in respect of any equipment referred to in regulation 97 if-
   a. the equipment is found to be unsafe for use upon any examination or test thereof;
   b. the person to whom the Certificate was issued, uses it for a
purpose different from that for which it was issued or in a manner calculated to mislead or deceive the public;

c. the person has contravened or failed to comply with any of the provisions of the Act or these Regulations; or

d. the holder of the Certificate has obtained the Certificate by making or causing to be made any false or fraudulent declaration, certification or representation, either in writing or otherwise.

(2) Where a Certificate of Approval is cancelled by the Commission pursuant to subregulation (1), the Certificate shall be returned to the Commission by the person to whom the Certificate was issued within fourteen days of the person being notified in writing of the cancellation.

Removal from and Reinstatement Approval to the Register of CoA

Regulation 109

(1) There shall be removed from the Register the name and other particulars of any person whose Certificate of Approval was issued under regulation 97—

a. where he has failed to renew his Certificate of Approval by the date of expiry thereof; or

b. where his Certificate of Approval has been cancelled under regulation 108.

(2) A person whose name has been removed from the Register under subregulation (1) may appeal, within 30 days of the removal from the Register, for reinstatement and the Commission, upon receipt of satisfactory evidence or reasons for his reinstatement, may register him again.

(3) The person referred to in subregulation (2) who feels aggrieved by the decision of the Commission not to reinstate him, may apply to the Minister for re-consideration of the matter.

(4) The application under subregulation (3) shall be made in writing within twenty-one days from the date of the decision of the Commission and shall contain the grounds of grievance.

(5) The decision of the Minister on the matter referred to him under subregulation (3) shall be final.

Market surveillance

Regulation 109A

(1) The Commission may, from time to time, carry out market surveillance to determine if any equipment referred to in regulation 97 is safe and is affixed with a label in accordance with regulation 98 or an efficiency rating label, or both, as the case may be.

(2) Whoever, intentionally or knowingly—

a. removes, withdraws or assists in the removal or withdrawal
of any equipment, which is not labelled in accordance with regulation 98 or which does not bear an efficiency rating label, or both, as the case may be, from any premises in order to obstruct or hinder the Commission, its authorised officers or agents from exercising any of its powers; or
b. harbours, keeps, conceals, or is in the possession of any equipment which is not labelled in accordance with regulation 98 or which does not bear an efficiency rating label, or both, as the case may be, with the intention to sell or offer for sale, Commits an offence.

Savings and transitional provision

(1) Any existing local conformity assessment body already in operation before the coming into operation of these Regulations, shall apply to be registered with the Commission within a period of six months from the date of coming into operation of these Regulations.

(2) Upon coming into operation of these Regulations, any manufacturer or importer shall apply to be registered with the Commission in accordance with regulation 97C, within a period of one year from the date of coming into operation of these Regulations.

(3) Any existing equipment which had been manufactured, imported, sold or offered for sale or lease before the coming into operation of these Regulations shall be required to comply with regulation 101A, within one year from the date of coming into operation of these Regulations.

Offences and Penalty

Section 37(1), Electricity Supply (Amendment) Act 2015
Any person who tampers with or adjusts any installation or part thereof or manufactures or imports or sells any equipment so as to cause or to be likely to cause danger to human life or limb or injury to any equipment or other property shall be guilty of an offence and for each such offence shall, on conviction, be liable to a fine not exceeding RM1,000,000 or to imprisonment for a term not exceeding 10 years or to both.

Regulation 122, Electricity Regulation 1994
Unless otherwise made an offence under the Act, a person who contravenes or fails to comply with any of the provisions of these Regulations shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding RM5,000 or to imprisonment for a term not exceeding 1 year or to both.
# Mains Voltage, Frequency and Mains Plug Configuration

## REGULATORY REQUIREMENTS RELATED TO NATIONAL DIFFERENCES

<table>
<thead>
<tr>
<th>No</th>
<th>Items</th>
<th>Requirements</th>
</tr>
</thead>
</table>
| 1. | Nominal Voltages and Frequency | a) Nominal Voltage  
Effective 1st Jan 2008, nominal voltage for low voltage supply in Malaysia is 230/400V (+10%,-6%) in accordance with MS IEC 60038. The details of voltages and variations are as below:-  

<table>
<thead>
<tr>
<th>Nominal Voltage (V)</th>
<th>Percentage of Variations (%)</th>
<th>Voltage Variations (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Until 31/12/2007</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single phase, 1 Ø</td>
<td>240 (5, 10)</td>
<td>226-252</td>
</tr>
<tr>
<td>Three phase, 3 Ø</td>
<td>415 (5, 10)</td>
<td>373.5-436</td>
</tr>
<tr>
<td>Commencing on 1/1/2008</td>
<td>230 (10, 6)</td>
<td>216-253</td>
</tr>
<tr>
<td>Single phase, 1 Ø</td>
<td>400 (10, 6)</td>
<td>376-440</td>
</tr>
<tr>
<td>Three phase, 3 Ø</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

b) Nominal Frequency  
Nominal frequency for low voltage supply voltage in Malaysia is allowed to fluctuate at ± 1% from 50Hz.

| 2. | Voltages and Frequency Marking for Regulated Equipment | In line with (a) above, the electrical equipment to be used in Malaysia shall be designed to operate at the country’s nominal voltage and frequency as follows:  
a) Voltage  
Single-phase equipment shall be rated / marked at 230V or 240V. If the equipment is rated with multiple or a range of voltages, voltage range of 230V (+10%,-6%) shall be included.  
Three-phase equipment shall be rated/marked at 400V or 415V. If the equipment is rated with multiple or a range of voltages, voltage range of 400V (+10%,-6%) shall be included. |
<table>
<thead>
<tr>
<th>No</th>
<th>Items</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Frequency</td>
<td>Product shall be rated / marked at 50Hz and testing shall be conducted at 50Hz (±1%). If the product is marked with 50/60Hz or 50-60Hz then testing shall be conducted either at 50Hz or 60Hz, whichever is more unfavourable.</td>
</tr>
<tr>
<td>3</td>
<td>Testing Voltage and Frequency</td>
<td>Type Test Report for Equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The test shall be conducted by the Conformity Assessment Body (CAB)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>at voltage variations as in the table below:</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="" /></td>
</tr>
<tr>
<td></td>
<td>a) Voltage</td>
<td>- Single-phase equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Testing shall be conducted based on 230V (+10%, -10%) or 240V (+6%, -6%) and other relevant voltages, whenever the equipment is marked with multiple or a range of voltages.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Three-phase equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Testing shall be conducted based on 400V (+10%, -10%) or 415V (+6%, -6%), and other relevant voltages, whenever the equipment is marked with multiple or a range of voltages.</td>
</tr>
<tr>
<td></td>
<td>b) Frequency</td>
<td>Testing shall be conducted either at 50Hz or 60Hz, whichever is more unfavourable.</td>
</tr>
<tr>
<td>4</td>
<td>Appliances</td>
<td>Appliances shall be fitted with a suitable and appropriately approved</td>
</tr>
<tr>
<td></td>
<td>shall be fitted with a suitable and</td>
<td>power supply cord and mains plug. Both are regulated equipment</td>
</tr>
<tr>
<td></td>
<td>appropriately approved power supply cord</td>
<td>and must be approved by the regulatory body before it can be used</td>
</tr>
<tr>
<td></td>
<td>and mains plug. Both are regulated</td>
<td>with the appliances.</td>
</tr>
<tr>
<td></td>
<td>equipment and must be approved by the</td>
<td>a) The Power Supply Cord shall be certified to:</td>
</tr>
<tr>
<td></td>
<td>regulatory body before it can be used</td>
<td>- MS2112-5 or BS EN 50525-2-11 or IEC 60227-5 (PVC insulated - flexible</td>
</tr>
<tr>
<td></td>
<td>with the appliances.</td>
<td>cables/cords); or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 140 or MS 2127-4 or IEC 60245-1 &amp; IEC 60245-4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) The mains Plug to be used in Malaysia shall be as follows:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 13A fused plug complying with MS 589-1 or BS 1363:PT.1;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 15A plugs complying with MS 1577;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 2.5A, 250V, flat non-rewireable two-pole plug with cord for the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>connection of class II equipment comply with MS 1578 or BS EN 50075.</td>
</tr>
</tbody>
</table>
5. Class I and Class II Equipment

Only Class I with symbol as in Figure 1 and Class II with symbol as in Figure 2 are allowed to be used in Malaysia.

![Figure 1: Class I](image1)

![Figure 2: Class II](image2)

Class 0 and Class 01 appliances as defined in MS IEC 60335 series or IEC 60335 series are NOT ALLOWED to be used in Malaysia.

6. Regulated Energy Efficiency (EE) Fans for performance

a) Regulated minimum energy efficiency standards for electrical fans namely ceiling fans, wall fans, table fans, pedestal fans and box fans which use blades are as follows:

<table>
<thead>
<tr>
<th>No</th>
<th>Type of fans</th>
<th>Minimum Co-efficient of performance (COP) (m³/min/W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ceiling Fan (1200 mm /48 inch – 1500 mm / 60 inch)</td>
<td>2.58</td>
</tr>
<tr>
<td>2.</td>
<td>Pedestal Fan (250 mm /10 inch – 400 mm / 16 inch)</td>
<td>1.01</td>
</tr>
<tr>
<td>3.</td>
<td>Table / Desk Fan (250 mm / 10 inch – 400 mm /16 inch)</td>
<td>1.01</td>
</tr>
<tr>
<td>4.</td>
<td>Wall Fan (250 mm / 10 inch– 400 mm / 16 inch)</td>
<td>1.01</td>
</tr>
<tr>
<td>5.</td>
<td>Box Fan (250 mm / 10 inch– 350 mm / 14 inch )</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Where, COP= Air Delivery (m³/min)
Input Wattage (W)

The test method used to determine COP is in accordance with MS 1220:2010 or IEC 60879:1986 with modification.

The acceptable value of COP must be at least or above the stated value shown.

Note: Value of COP for No.1,2,3 & 4 are included in the MEPS requirements.
b) Suspension System for Electric Ceiling Fans.
   Electric ceiling fans must be provided with a special wire as a secondary suspension system. The test method used to check that the secondary suspension system of the electric ceiling fan has adequate mechanical strength is in accordance with MS 1597:Part 2-80 or IEC 60335-2-80 with modification for ceiling fan only.

7. Component used for Fluorescent Lamp Fitting

   Standards for Fluorescent Lamp Fitting are MS IEC 60598-2-1 or IEC 60598-2-1 (for fixed luminaries) and MS IEC 60598-2-2 or IEC 60598-2-2 (for recessed luminaries). Components such as glow starter, starter holder, lamp holder, capacitor, connecting device, ballast and internal wiring are used as part of the fitting. Thus, the components used for both standards mentioned shall comply to the following standards:

<table>
<thead>
<tr>
<th>Components</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glow-Starters</td>
<td>MS IEC 60155 or IEC 60155</td>
</tr>
<tr>
<td>Starterholder</td>
<td>MS IEC 60400 or IEC 60400</td>
</tr>
<tr>
<td>Lampholders</td>
<td>MS IEC 60400 or IEC 60400</td>
</tr>
<tr>
<td>Capacitors</td>
<td>MS IEC 61048 or IEC 61048 &amp; MS IEC 61049 or IEC 61049</td>
</tr>
<tr>
<td>Connecting devices</td>
<td>MS IEC 60998 (Series) or IEC 60998 (Series)</td>
</tr>
<tr>
<td>Magnetic/ conventional Ballast</td>
<td>Safety test: MS IEC 61347-1 or IEC 61347-1 + MS IEC 61347-2-8 or IEC 61347-2-8 and Performance test: MS IEC 141 PT.2 or IEC 60921 with modification</td>
</tr>
<tr>
<td>Electronic Ballast</td>
<td>Safety test: MS IEC 61347-1 or IEC 61347-1 + MS IEC 61347-2-3 or IEC 61347-2-3 and Performance test: MS IEC 60929 with MS IEC 61000-3-2 or IEC 60929 with IEC 61000-3-2</td>
</tr>
<tr>
<td>Internal Wiring</td>
<td>MS 2112-3 or IEC 60227-3, MS 2112-4 or IEC 60227-4</td>
</tr>
</tbody>
</table>

The insulating material of internal wiring must be capable of withstanding the maximum temperature to which it is subjected (heat resistance).
<table>
<thead>
<tr>
<th>No.</th>
<th>Items</th>
<th>Requirements</th>
</tr>
</thead>
</table>
| 8.  | Manufacturing requirements  | a) Manufactured regulated equipment shall participate in Product Certification Scheme (PCS) by SIRIM and electrical equipment shall be affixed with label issued by SIRIM or bear SIRIM Certification Mark (under Label Licensing Programme). The sample of SIRIM label and SIRIM Certification Mark can be referred in Chapter 9.  
   b) Manufacturers of products such as television, refrigerator, domestic fan and air conditioner, must also affix the Energy Efficiency Label onto the products before it can be sold to the customer. The sample of Energy Efficiency (EE) label is shown in Figure 6 in Chapter 9. |
| 9.  | Importing requirements      | a) Imported regulated electrical equipment shall undergo Consignment Test conducted by SIRIM or participate in Product Certification Scheme (PCS) by SIRIM.  
   Electrical equipment which passes the Consignment Test shall be affixed with the labels issued by SIRIM. The sample of SIRIM label can be referred in Chapter 9.  
   Electrical equipment which fails the Consignment Test need to be sent to the country of origin or shall be destroyed.  
   Electrical equipment shall be constructed to be used with power supply cord and power plug which comply with Malaysia’s requirements and standards.  
   The requirements and standards of Power supply cord and power plug are stated as in item No.4 above.  
   b) Importers of products such as television, refrigerator, domestic fan and air conditioner, must also affix the Energy Efficiency Label onto the products before it can be sold to the customer. The samples of Energy Efficiency (EE) label are shown in Figure 6 in Chapter 9. |
| 10. | Climate Conditions          | Apparatus to be used in Malaysia shall be subjected to tests under tropical conditions as specified in the related standards.                                                                                                                                                                                                                                                                                                                                 |
| 11. | Requirements for MEPS       | To meet the requirements of the MEPS, the performance criteria when tested using the relevant testing standards has to be met. The testing standards and performance criteria have been set as prescribed in Chapter 5A.                                                                                                                                                                                                                                                                   |
(1) No part of the current-carrying pins shall be less than 9.50 mm from the peripheral of the face of the plug.

(2) The current-carrying socket contacts shall be automatically screwed by shunters when the plug is withdrawn.

(3) Provision for a cartridge fuse of rating 13A shall be made within the body of the plug.

(4) Plugs shall be marked “fused”
   Socket-outlets shall be marked “13 amp”
   Socket-outlet terminals shall be indicated with the letters “E” or “G” or for earth which shall be at the top. Phase terminals shall also be indicated with the letters “E”, “L” and “N”.

(5) The cord shall enter the side opposite the earth pin, and be effectively gripped.

(6) The socket-outlet shall be of such size that it is impossible to insert one or two pins into the current-carrying contacts, leaving the other or others exposed.

Figure (1)
### ACCEPTABLE AND NON-ACCEPTABLE 2-PIN MAINS PLUG

**SOURCE:** CEE 7: 1963 Standard Sheet XVI  
IEC 83: 1975 Standard C5

**NOTES:** This plug is available in two profiles (see page 9)  
Version I: round plug  
Version II: flat plug, with insulating collar  
Intended to be fitted to class II (double insulated) appliances  
2.5 A, 250 V  
Two pole - no earth contact

**OTHER:**  
**RATINGS:** None  
**OUTLINE:**

### Version I: Round Plug

- TYPICAL PLUG:

### Version II: Flat Plug

- TYPICAL PLUG:

**SOURCE:** CEE 7: 1963 Standard Sheet XVI  
IEC 83: 1975 Standard C5

**NOTES:** Intended to be fitted to class II (double insulated) appliances  
2.5 A, 250 V  
Two pole - no earth contact

**OTHER:**  
**RATINGS:** None  
**OUTLINE:**

- TYPICAL PLUG:

- UNACCEPTABLE
APPLICATION FOR CERTIFICATE OF APPROVAL FOR ELECTRICAL EQUIPMENT

ELECTRICAL EQUIPMENT

In improving its delivery services, the Energy Commission (ST) has developed an online system for application of Certificate of Approval (CoA) for the importation and manufacture of household electrical equipment. Effective 1st October 2010, all applications are done online via e-Permit system operated by DagangNet Technologies Sdn. Bhd. (DagangNet).

To import household electrical equipment, applicants or their local agents need to register with DagangNet. Once registered, applicants can proceed to apply electronically. Applicants are required to apply for the Certificate of Registration to Manufacture/Import before he can proceed with the Certificate of Approval (CoA) application. ST will issue the CoA if applications are in order (test report and all required documents submitted and fees paid to ST).

e-Permit is available at http://epermit.dagangnet.com as follows:-

The process of CoA’s application is as shown in the following flow-chart:-
6.1 NEW Application for CoA (Import/Manufacture)

- Applicant registers with Dagangnet
- Registered with ST
  - Yes: Apply CoR
  - No: Online application through ePermit.
- Applicant fills-up information such as:
  - Name of electrical equipment
  - Brand
  - Model
- *Applicant can refer to Trader Module User Guide*
- Attached Type test report [for test report accredited by APLAC/ILAC need to get approval from DSM prior to application submission]
- Application Rejected
- MEPS Products
  - Yes: Attach Type Test Report for MEPS (Performance Test Report)
  - No:
    - Correct Information given
      - Yes: Process Fee RM30.00
      - No:
        - Correct Information given
          - Yes: Process Fee RM30.00
          - No:
            - Process Fee RM30.00
              - Yes: Paid
              - No:

---

*CoR = Certificate of Registration to Manufacture/Import (see Appendix A)*

*DSM = Department of Standard Malaysia*
Energy Commission (ST) evaluates based on:
- Validity of Type test report
  - SIRIM QAS; or
  - labs under SAMM by DSM; or
  - labs under IECEE CB Scheme; or
  - labs accredited by APLAC MRA; or
  - labs accredited by ILAC MRA; or
  - labs listed under ASEAN EE MRA.
- National Deviation

Application re-submitted

Complete

CoA Fees:
- Single phase RM 220.00
- Three phase RM 330.00

Paid

CoA issued
Information Booklet

APPROVAL OF ELECTRICAL EQUIPMENT

Importer

- Equipment shall be sent for Consignment Test or PCS by SIRIM

- Passed

- Consignment or PCS

- Failed

- SIRIM inform ST

- i. ST issues letter to applicant as to:
  - inform the cancellation of CoA
  - equipment to be sent to country of origin or destroyed

- ii. Customs will be informed of the cancellation of CoA

Manufacturer

- Equipment shall enter PCS by SIRIM

- Passed

- PCS

- Failed

- Applicant to re-apply

- Yes Equipment affixed with SIRIM-ST Label & **EE Label

- Yes MEPS Products

- Yes Equipment affixed with SIRIM-ST Label

- ** The artwork for EE label can be obtained by EC; Please refer to Chapter 8 and Chapter 9 for details.

*Please refer details explanation in Appendix B
6.2 RENEWAL Application for COA (Import/Manufacture)

- **Registered Applicant**
  - CoR still valid
    - Yes: Online application through e-Permit. Documents required are:
      - Proof of purchase of SIRIM Label; and/or
      - PCS
      Applicant can refer to Trader Module User Guide
    - No: Apply CoR
  - No: Apply CoR

- Energy Commission (ST) evaluates based on validity of:
  - Proof of purchase of SIRIM Label; and/or
  - PCS
  - Validity of Type test report

- **MEPS Products**
  - Yes: Validity of MEPS type test report
  - No: Applicant to re-submit

- **Complete**
  - Yes: RENEWAL of CoA Fees:
    - Single phase RM 110.00
    - Three phase RM 220.00
  - No: Paid

*CoR = Certificate of Registration to Manufacturer/Importer (See Appendix A)*
Information Booklet

APPROVAL OF ELECTRICAL EQUIPMENT

RENEWED CoA issued

Importer

Manufacturer

Equipment shall be sent for Consignment Test or PCS by SIRIM

Equipment shall re-enter PCS by SIRIM

Failed

Passed

Passed

Failed

Consignment or PCS

PCS

Applicants re-apply

SIRIM inform ST

MEPS Products

i. ST issues letter to applicant to:
   • inform the cancellation of CoA
   • send equipment to country of origin or destroyed

ii. Customs will be informed on the cancellation of CoA

Equipment affixed with SIRIM-ST Label

Yes

Equipment affixed with SIRIM-ST Label & **EE Label

Yes

** The artwork for EE label can be obtained by EC; Please refer to Chapter 8 and Chapter 9 for details.