

# REGULATED ELECTRICAL EQUIPMENT THAT REQUIRES CERTIFICATE OF APPROVAL (COA)

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TO MANUFACTURE, IMPORT, DISPLAY, SELL OR ADVERTISE



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The electrical equipments as illustrated below which are for purposes of manufacturer, import, display, sale or advertisement and falling under the following categories:

- a. any domestic equipment;
- b. any equipment which is usually sold direct to the general public; or
- c. any equipment which does not require special skill in its operation

must be approved by the Energy Commission and labeled pursuant to the Electricity Regulations 1994.

However, the illustrations are to facilitate and as reference to the illustration to the description of the electrical equipments requiring such approval and labeling. Any other electrical equipment not illustrated herein but which are for the said purposed and falling under the said categories must also be approved and labeled in accordance with the said Electricity Regulations 1994.

The applicable safety and performance standards for electrical equipments can be accessed from the Energy Commission.



### 1. PLUG TOP/PLUG (15A and below)

Product	Domestic Std (MS IEC/ MS*)	Intl. Std (IEC/BS*/ BS EN**)
2 Pole Plug	*1578	**50075
13 A Fused Plug	*589-1	*1363-1
15 A Plug	*1577	-
Appliance Coupler	60320-1	60320-1
Interconnection Coupler	60320-1, -2-2	60320-1, -2-2
Adaptor (Multiways)	*589-3	*1363-3
Adaptor (Integrated adaptor)	*1144	*5733
Travel Adaptor	-	60884-1, -2-5
Electrical Connector (connecting device)	60998-1	60998-1
Connecting device with screw type clamping unit	60998-1, -2-1	60998-1, -2-1
Connecting device with screw-less type clamping unit	60998-1, -2-2	60998-1, -2-2
Connecting device with insulation-piercing clamping units	60998-1, -2-3	60998-1, -2-3
Twist-on connecting device	60998-1, -2-4	60998-1, -2-4
Connecting boxes	60998-1, -2-5	60998-1, -2-5

## 2. SWITCH AND DIMMER



Product	Domestic Std (MS IEC /MS*)	Intl. Std (IEC/BS*/ BS EN**)
General Purpose Switch	60669-1	60669-1
Door Bell & Chime	61558-1, -2-8	61558-1, -2-8
Electronic Switch	60669-1, -2-1	60669-1, -2-1
Remote-control Switch	60669-1, -2-2	60669-1, -2-2
Time Delay Switch	60669-1, -2-3	60669-1, -2-3
Cooker Control Unit	-	*4177



## 3. SOCKET OUTLET (15A and below)

Product	Domestic Std (MS IEC /MS*)	Intl. Std (IEC/BS*/ BS EN**)
Electric Shaver Socket Outlet	61558-1, -2-5	61558-1, -2-5
13A Switch & Unswitch Socket Outlet	*589-2	*1363-2
15A Socket Outlet & Plug	*1577	-
Portable 2 Pin Socket Outlet Class II	*1579	-
Portable Cable Reel	*1141	61242 with mod.



## 4. FLUORESCENT LAMPHOLDER / STARTER HOLDER

Product	Domestic Std (MS IEC /MS*)	Intl. Std (IEC/BS*/ BS EN**)
Lamp Holder for Tubular Fluorescent Lamp	60400	60400
Starter Holder for Tubular Fluorescent Lamp	60400	60400



## 5. CEILING ROSE

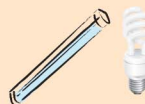
Product	Domestic Std (MS IEC /MS*)	Intl. Std (IEC/BS*/ BS EN**)
Ceiling Rose	*770	*67
Edison Screw Lamp Holder	60238	60238



## 6. BAYONET CAP and MULTIWAYS ADAPTOR

Product	Domestic Std (MS IEC /MS*)	Intl. Std (IEC/BS*/ BS EN**)
Bayonet cap Lamp Holder	-	61184
Bayonet Lamp Adaptor	*769, IEC 61184	61184, MS 769

## 7. LAMP FITTING



Product	Domestic Std (MS IEC/ MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Fixed general purpose Luminaries (excluding Tube/Bulb), Batten Luminaries (excluding Tube/Bulb), Luminaries with self-ballasted florescent lamp</i>	60598-1, -2-1	60598-1, -2-1
<i>Recessed Luminaries (excluding Tube/Bulb)</i>	60598-1, -2-2	60598-1, -2-2
<i>Glow-starter for tubular fluorescent</i>	60155	60155
<i>Self-ballasted Compact Florescent Lamp (CFL) with Edison screw or bayonet caps</i>	60968 60969	60968 60969
<i>LED General and safety for lamp controlgear for use on dc supplies up to 250V and or ac supplies up to 1000V</i>	61347-1	61347-1
<i>Lamp controlgear: Particular requirements for dc or ac supplied electronic controlgear for LED modules</i>	61347-1, -2-13 (P)	61347-1, -2-13
<i>LED Lampholder (Connectors for LED -modules)</i>	60838-1, -2-2	60838-1, -2-2
<i>LED Modules for general lighting (eg. Double capped self-ballasted LED lamp)</i>	62031, 60061-1	62031, 60061-1
<i>Self-ballasted single capped LED lamps for general lighting services by voltage&gt;50V</i>	62560 (P)	62560

## 8. CAPACITOR for FLUORESCENT LAMP



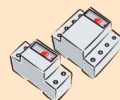
Product	Domestic Std (MS IEC/ MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Capacitors for use in Tubular Fluorescent Lamp and other circuits</i>	61048, 61049	61048, 61049

## 9. BALLAST / CONTROL GEAR / DRIVER FOR LAMP



Product	Domestic Std (MS IEC/ MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Magnetic Ballast for Tabular Fluorescent Lamp</i>	61347-1, -2-8, *141-2	61347-1, -2-8, 60921 with mod
<i>Electronic Ballast for Fluorescent Lamp</i>	61347-1, -2-3, 60929 with 61000-3-2	61347-1, -2-3, 60929 with 61000-3-2

## 10. CIRCUIT BREAKER including AC CURRENT OPERATED EARTH LEAKAGE CIRCUIT BREAKER and MINIATURE CIRCUIT BREAKER



Product	Domestic Std (MS IEC/ MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Residual Current Circuit Breaker (RCCB)</i>	61008-1, -2-1, -2-2	61008-1, -2-1, -2-2
<i>Residual Current Breaker with Overcurrent Protection (RCBO)</i>	61009-1, -2-1, -2-2	61009-1, -2-1, -2-2
<i>Miniature Circuit Breaker (MCB) for ac</i>	60898-1	60898-1
<i>Miniature Circuit Breaker (MCB) for ac &amp; dc</i>	60898-2	60898-2
<i>Fuse Base &amp; Carrier up to 32A</i>	60269-1, -2	60269-1, -2
<i>Fuse/Fuse Link up to 63A</i>	60269-2, -3	60269-2, -3
<i>Switch fuse up to 63A</i>	60947-1, -3	60947-1, -3



### 11. PORTABLE LUMINAIRE LAMP

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Standing Lamp with detachable or non-detachable mains supply flexible cord, Standing Lamp &amp; adaptor, Table lamp with detachable or non-detachable mains supply flexible cord, Table Lamp &amp; adaptor, Night Lamp integral with direct in plug, Portable LED Lamp</i>	60598-1, -2-4	60598-1, -2-4
<i>Hand Lamp &amp; Adaptor</i>	60598-1, -2-8	60598-1, -2-8



### 12. KETTLE including HEATING ELEMENTS IF SUPPLIED SEPARATELY

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Warming Plate</i>	60335-1, -2-12	60335-1, -2-12
<i>Deep Fryer</i>	60335-1, -2-13	60335-1, -2-13
<i>Heating Liquids such as: Coffee / Tea Maker, Food Steamer, Egg Boiler, Jug, Slow Cooker, Steam Boat, Kettle, Airpot, Bottle Warmer, Sterilizer</i>	60335-1, -2-15	60335-1, -2-15
<i>Multi-purpose cooker</i>	60335-1, -2-9, -2-13, -2-15	60335-1, -2-9, -2-13, -2-15
<i>Water Dispenser/Filter</i>	60335-1	60335-1
<i>Water Dispenser - Hot</i>	60335-1, -2-15	60335-1, -2-15
<i>Water Dispenser - Cold</i>	60335-1, -2-24 or *1597-2-75	60335-1, -2-24 or -2-75
<i>Water Dispenser - Hot and Cold</i>	60335-1, -2-15, -2-24 or *1597 -2-75	60335-1, -2-15, -2-24 or -2-75
<i>Built in Hob</i>	60335-1	60335-1, -2-36



### 13. KITCHEN MACHINE

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Blender, Chopper, Food Processor, Juice Extractor, Grinder, Mixer</i>	60335-1, -2-14	60335-1, -2-14



### 14. TOASTER / OVEN (Cooking Appliance)

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Stationary Electric Oven, Induction Hob</i>	60335-1, -2-6 or -1, *1597 -2-6	60335-1, -2-6
<i>Bread Maker, Bread Toaster, Portable Oven, Induction Cooker, Grill, Sandwich Maker/Waffle Maker, Roaster</i>	60335-1, -2-9	60335-1, -2-9
<i>Microwave Oven</i>	60335-1, -2-25	60335-1, -2-25



#### 14. RICE COOKER

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Rice Cooker	60335-1, -2-15	60335-1, -2-15



#### 15. REFRIGERATOR

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Refrigerator, Freezer, Minibar	60335-1, *1597-2-24	60335-1, -2-24 with mod



#### 16. IMMERSION WATER HEATER

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Fixed Immersion Heater	60335-1	60335-1, -2-73
Portable Immersion Heater	60335-1, -2-74	60335-1, -2-74



#### 17. WATER HEATER including HEATING ELEMENTS IF SUPPLIED SEPARATELY

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Storage Water Heater	60335-1, *1597-2-21 or 60335-2-21	60335-1, -2-21 wt mod
Instantaneous Water Heater	60335-1, *1597-2-35	60335-1, -2-35 wt. mod



#### 18. WASHING MACHINE

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Washing Machine having drying	60335-1, *1597-2-7	60335-1, -2-7 wt mod
Washing Machine with separate spin container	60335-1, -2-4, *1597 -2-7	60335-1, -2-4, -2-7
Tumbler Dryers	60335-1, -2-11	60335-1, -2-11
Cloth Dryers (on rack located)	60335-1, -2-43	60335-1, -2-43
Dish Washer and other utensils	60335-1, *1597-2-5	60335-1, -2-5



#### 19. FAN

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Moving-louver fan, Ceiling fan, Auto fan, Pedestal fan, Table fan, Wall fan & applies to their separate regulators and with blade	60335-1, *1597-2-80, *1220	60335-1, -2-80 wh mod. (ceiling fan), 60879 wh mod.
Ventilating fan, Decorative fan & applies to their separate regulators and fan without blade	60335-1, *1597-2-80	60335-1, -2-80 wh mod (ceiling fan)
Range Hood	60335-1, -2-31	60335-1, -2-31
Cleaning Appliances (eg. Air Purifier )	60335-1, -2-65	60335-1, -2-65
Humidifiers (eg. Air Cooler)	60335-1, -2-98	60335-1, -2-98



## 20. HAND OPERATED HAIR DRYER / HAIRCARE/ SKIN CARE

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Hair Dryer, Hair Styling Set, Hand Dryer, Ionic Facial Steamer or similar to it</i>	60335-1, -2-23	60335-1, -2-23



## 21. IRON

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Iron</i>	60335-1, -2-3	60335-1, -2-3
<i>Fabric Steamer</i>	60335-1, -2-85	60335-1, -2-85



## 22. SHAVER

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Shaver, Hair Clippers</i>	60335-1	60335-1, -2-8



## 23. VAPORISER

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Mosquito Matt Vapor, Aroma Vapor (eg. Air Freshener)</i>	60335-1, -2-101	60335-1, -2-101



## 24. VACUUM CLEANER

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Vacuum Cleaner, Water Suction Cleaning</i>	60335-1, -2-2	60335-1, -2-2



## 25. HI-FIDELITY SET

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Sub-woofer, Amplifier, Cassette Player, Equalizer / Mixer, Hi-Fi System, Karaoke, PA System, Portable Hi-Fi System, Portable Radio Cassette, Player / Recorder, Radio, Radio Alarm, Tuner / Receiver, Turn tables / Record Players, Compact Disc Player, Audio/Video Recorder up to 4 channels</i>	60065	60065



## 26. VIDEO and VISUAL DISPLAY UNIT

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Electronic appliances such as: LCD, LED, Plasma, CRT, and similar to it</i>	60065	60065

### 27. AUDIO and VIDEO PLAYER UNIT



Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
VCD ,Laser Disc,Video Cassette Recorder, DVD ,Video Rewinder, Children Video Game	60065	60065

### 28. MASSAGER



Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Foot Massagers,Massage Bed, Massage Chair,Massage Pads, Handheld Massagers,Massage Belts	60335-1, -2-32	60335-1, -2-32

### 29. AIR CONDITIONER



Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Split Air-conditioner, Portable Air-conditioner,Ceiling Air-conditioner	-	60335-1, -2-40

### 30. CHRISTMAS LIGHT



Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Lighting Chain,Rope Light, Decorative / Festive Light	60598-1, -2-20	60598-1, -2-20

### 31. DOMESTIC POWER TOOLS (Portable Type)



Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
Drill (drill bit size up to 15mm)	60745-1, -2-1	60745-1, -2-1
Grinder (up to 100 mm)	60745-1, -2-3	60745-1 -2-3
Sander (up to 300 W)	60745-1, -2-4	60745-1, -2-4
Circular Saw and circular knife (Cutting Blade up to 160 mm)	60745-1, -2-5	60745-1, -2-5
Spray gun for non-flammable liquid (up to 100 bars)	60745-1, -2-7	60745-1, -2-7
Jig and Sabre Saw (up to 60 mm)	60745-1, -2-11	60745-1, -2-11
Planer (up to 500 W)	60745-1, -2-14	60745-1, -2-14
Trimmer (up to 300 W)	60745-1,	60745-1,



<i>Hedge trimmer and Grass shears (up to 750 W)</i>	-2-15	-2-15
<i>Router and trimmer (up to 500 W)</i>	60745-1, -2-17	60745-1, -2-17
<i>High Pressure Cleaner</i>	60335-1, -2-79	60335-1, -2-79
<i>Sewing Machine</i>	60335-1, -2-28	60335-1, -2-28
<i>Portable Heating Tool such as: Soldering Gun, Soldering Iron, Heat Gun, Hot Air Firelighters, Glue gun</i>	60335-1, -2-45	60335-1, -2-45



### 32. ADAPTER / CHARGER

Product	Domestic Std (MS IEC/MS*)	Intl. Std (IEC/BS*/ BS EN**)
<i>Portable Battery Charger (up to 12V)</i>	60335-1,-2-29	60335-1,-2-29
<i>Adaptor for IT Equipment (up to 20V)</i>	60950-1	60950-1
<i>General electrical appliances, Electronic Isolating Transformer</i>	61558-1,-2-6	61558-1,-2-6
<i>Switching mode power supply</i>	61558-1,-2-17	61558-1,-2-17
<i>Electric toys</i>	61558-1,-2-7	61558-1,-2-7
<i>Audio video equipment</i>	60065	60065
<i>IT &amp; Office products</i>	60950-1	60950-1
<i>Shavers</i>	60335-1	60335-1,-2-8



### 33. WIRE / CABLE / CORD (non-armoured) 0.5mm<sup>2</sup> to 35mm<sup>2</sup>

Product	Domestic Std (MS IEC/MS*)	Intl. Std BS EN**)
<i>Polyvinyl chloride (PVC) Insulated flexible cord and cable</i>	*140 or * 2112-5	*6500 or 60227-1, -5
<i>Rubber insulated cord and flexible cables</i>	*140	*6500 or 60245-1, -4
<i>PVC-insulated cable (non-armoured) for electric power and supply: - non-sheathed</i>	*2112-3	60227-3
<i>PVC-insulated cable (non-armoured) for electric power and supply: - sheathed</i>	*2112-4	60227-4

All regulated approved electrical equipment must be individually affixed with SIRIM-ST label or emboss by SIRIM Certification Mark.



The Energy Commission expressly disclaims all liability to any person in respect of any statement in or omission from this booklet to the extent permitted by the law and nothing contained in this booklet should taken as constituting any amendment to the Electricity Supply Act [Act 447]and the Electricity Regulation 1994. In the event of any conflict, Act 447 or the Regulation shall at all time taken precedence.

## ENSURING ENERGY FOR ALL

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