

## 6 CONTROLLED GOODS AND THEIR APPLICABLE SAFETY STANDARDS

Controlled Goods are required to be tested to the minimum edition of the safety standards stated in this chapter. In addition to the specified safety standards, Controlled Goods are required to fulfil the Safety Authority's Requirements which are specified in Chapter 7.


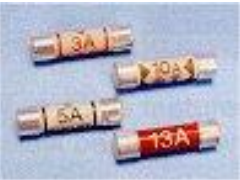


In addition, Enterprise Singapore categorised the Controlled Goods into three risk levels - Low, Medium, or High. The table below shows the conformity assessment approach adopted for each of the three risk levels.

Risk Level	Conformity Assessment Approach
Low	Type testing <sup>1</sup> + Supplier's Declaration of Conformity (SDoC)
Medium	Type testing + CoC
High	Type testing + CoC + high risk requirement for renewal




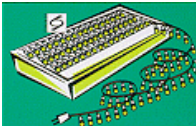
Note:

(1) Type testing is testing carried out by recognised testing laboratories to determine whether a product complies with the specified safety standard.







### Low Risk





Controlled Goods	Definitions	Safety Standards
Air cooler 	Air cooler, which is an electrical appliance intended for household use to agitate the air and equipped to use water as a cooling medium, with rated voltage of not more than 250 Vac.	IEC 60335-2-98: 2002
Fuse ( $\leq 13$ amperes) for use in a plug 	Fuse (13-amp or less) for use in a 13-amp plug, which is a device that, 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	SS 167: 1977
Room air-conditioner 	Room air-conditioner, which is an electrical appliance intended for household use and designed as a self-contained unit for mounting on a window or through a wall to provide conditioned air to an enclosed area, with rated voltage of not more than 250 Vac.	IEC 60335-2-40: 2002
Table lamp/ standing lamp 	An electrical portable general purpose luminary intended for household use with supply voltage of not more than 250 Vac.	IEC 60598-2-4: 2017

**6 CONTROLLED GOODS AND THEIR APPLICABLE SAFETY STANDARDS**
**Medium Risk**

Controlled Goods	Definitions	Safety Standards
<b>AC Adaptors</b> 	A device with rated voltage of not more than 250 Vac, and designed to supply a.c. or d.c. power for applications such as computers, telecommunication equipment, home entertainment equipment or toys.	<div> IEC 61558-2-6: 1997 or IEC 61558-2-16: 2009 (applicable for electrical appliances) </div> <div> IEC 60065: 2001 or IEC 62368-1:2014 (applicable for electronic appliances) </div> <div> IEC 60950-1: 2001 or IEC 62368-1:2014 (applicable for computer / telephonic appliances) </div> <div> IEC 60335-2-8: 2002 (applicable for shavers) </div> <div> IEC 60335-2-29: 2002 with A1 or IEC 60335-2-29: 2004 (applicable for battery chargers) </div> <div> IEC 61347-2-13: 2006 (applicable for LED lightings) </div> <div> IEC 60598-2-4: 1997 (applicable for table/standing lamps) </div> <div> IEC 60601-1: 2005 (applicable for breast pump) </div>
<b>Audio and video products</b> 	Audio and video products, which are electronic devices for home entertainment designed to be fed from the supply mains and intended for reception, generation, recording or reproduction, respectively of audio, video and associated signals, with rated voltage of not more than 250 Vac.	<div> IEC 60065: 2001 or IEC 62368-1:2014 </div>
<b>Coffee maker, slow cooker, steam boat and similar appliances</b> 	Coffee makers, slow cookers, steam boats and similar appliances, which are electrical appliances intended for household use to heat liquids for the purpose of food or beverages preparation, with rated voltage of not more than 250 Vac.	IEC 60335-2-15: 2002
<b>Decorative lighting chain</b> 	Decorative lighting chain, which is an electrical lightning chain intended for household use and fitted with a series or parallel or combination of series or parallel connected light emitting devices, with rated voltage of not more than 250 Vac.	<div> IEC 60598-2-20: 2002 </div> <div> IEC 60598-2-21: 2014 (Applicable for rope lights) </div>




Controlled Goods	Definitions	Safety Standards
<b>Fans</b> 	Fans, limited to ceiling, table, standing and wall fans, which are electrical appliances for circulating the air in its vicinity and intended for household use, with rated voltage of not more than 250 Vac.	IEC 60335-2-80: 2002 and SS 360: 1992 (sub-clauses 5.7 & 5.8 only) (applicable for ceiling fan)
<b>Gas canister</b> 	A non-refillable metallic container up to 1.4 litres capacity filled with liquefied petroleum gases intended for household use with a portable gas cooker.	SS 400: 1997
<b>Hair care appliances</b> 	Hair care appliances, limited to hair dryers, hair curlers, hair straighteners and hair stylers, which are electrical hand-held appliances intended for household use to dry or care for human hair, with rated voltage of not more than 250 Vac.	IEC 60335-2-23: 2003
<b>Home computer system (inclusive of monitor, printer, speaker and other mains operated accessories)</b> 	Home computer system (inclusive of monitor, printer, speaker and other mains operated accessories), which is a microcomputer and its associated accessories, intended for household use, with rated voltage of not more than 250 Vac.	IEC 60950-1: 2001 or IEC 62368-1: 2014
<b>Iron</b> 	Iron, which is an electrical hand-held appliance intended for household use, with a heated soleplate for smoothing or pressing fabric, including those with a separate water reservoir or boiler having a capacity not exceeding 5 litres, with rated voltage of not more than 250 Vac.	IEC 60335-2-3: 2002
<b>Isolating transformer for downlight fitting</b> 	Isolating transformer for downlight fitting, which is an isolating transformer intended for household electrical installation with input and output windings that are electrically separated to limit hazards due to accidental simultaneous contact with earth and live parts or metal parts that may become live in the event of an insulation failure.	IEC 61558-2-6: 1997 (magnetic type)
		IEC 61347-2-2: 2000 (electronic type)
<b>Kitchen machines</b> 	Kitchen machines, including mixers, blenders and mincers, which are electrical appliances intended for household use to prepare food or beverages, with rated voltage of not more than 250 Vac.	IEC 60335-2-14: 2002
<b>Liquid heating appliances</b> 	Liquid heating appliances, limited to kettles, airpots and hot water dispensers, which are electrical appliances intended for household use to heat liquids for consumption that have a rated capacity not exceeding 10 litres, with rated voltage of not more than 250 Vac.	IEC 60335-2-15: 2002
		IEC 60335-2-21: 2004 (hot water dispenser-storage type)
		IEC 60335-2-35: 2002 (hot water dispenser-instantaneous type)

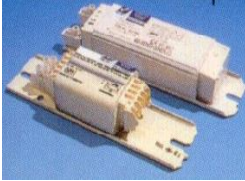



Controlled Goods	Definitions	Safety Standards
<b>Microwave oven</b> 	Microwave oven, which is an electrical appliance intended for household use that uses high-frequency electromagnetic waves for heating food or beverages, with rated voltage of not more than 250 Vac.	IEC 60335-2-25: 2002
<b>Multi-way Adaptor</b> 	Multi-way adaptor, which is intended for household use, has more than one set of socket contacts, and which may or may not be of the same type or rating as the plug pin portion.	SS 246: 2004
<b>Toaster, grill, roaster, hot plate, deep fryer, wok and similar appliances</b> 	Toasters, grills, roasters, hot plates, deep fryers and similar appliances, which are electrical appliances intended for household use that use heated medium such as air and cooking oil for food preparation, with rated voltage of not more than 250 Vac.	IEC 60335-2-9: 2002 (applicable for toaster, hot plate (including induction type), grill, oven and similar appliances)
		IEC 60335-2-13: 2002 (applicable for deep fryer, electric wok and similar appliances)
		IEC 60335-2-78: 2002 (applicable for outdoor electric barbecue grill)
<b>Portable socket-outlet</b> 	3-pin portable socket-outlets, including portable cable reels, which are electrical accessories intended for household use that have at least a set of 13-amp shuttered socket-outlets with flexible cords, and which can be easily moved from one place to another while connected to rated voltage supply of not more than 250 Vac.	SS 145: Part 2: 1997 (3-pin portable socket-outlet)
		SS 145: Part 2: 2018 (3-pin portable socket outlet incorporated with USB port(s) and/or electronic device(s)) (Mandatory to use this standard from 9 Sep 2020)
		SS 307: 1996 (Portable cable reel)
<b>Residual Current Circuit Breaker (RCCB)</b> 	Residual current circuit breaker (RCCB), which is an electrical device intended for household fixed-electrical installation with sensitivity of 30 mA intended to protect persons against indirect contact, the exposed conductive parts of the installation being connected to an appropriate earth electrode.	SS 97: Part 1: 2005
<b>Rice cooker</b> 	Rice cooker, which is an electrical appliance intended for household use to cook rice, with rated voltage of not more than 250 Vac.	IEC 60335-2-15: 2002

Controlled Goods	Definitions	Safety Standards
Stationary cooking appliances 	Stationary cooking appliances, limited to cooking ranges, hobs and ovens, which are electrical stationary appliances intended for household use for cooking, with rated voltage of not more than 250 Vac for single-phase and 480 Vac for three-phase.	IEC 60335-2-6: 2002
Vacuum cleaner 	Vacuum cleaner, which is an electrical portable appliance intended for household use to remove dirt or dust, with supply voltage of not more than 250 Vac.	IEC 60335-2-2: 2002
Washing machine 	Washing machine, which is an electrical appliance intended for household use to wash clothes and textiles, with rated voltage of not more than 250 Vac.	IEC 60335-2-7: 2000
3-pin mains plugs 	3-pin mains plug, limited to 13-amp rectangular types and 15-amp round types, which are portable devices that have rectangular or cylindrical projecting pins designed to engage with the contacts of a corresponding socket-outlet. 3-pin mains plugs also incorporate means for the electrical connection and the mechanical retention of a suitable flexible cord.	SS 145: Part 1: 1997 (3-pin rectangular type 13-amp plug)
		SS 472: 1999 (3-pin round type 15-amp plug)



**6 CONTROLLED GOODS AND THEIR APPLICABLE SAFETY STANDARDS**
**High Risk**

Controlled Goods	Definitions	Safety Standards
Components of the Liquefied Petroleum Gas system 	<b><u>Hose</u></b> Hose, namely a hose intended for household use in liquefied petroleum gas vapour phase and liquefied petroleum gas or air appliances not exceeding 5 KPa (50 mbar) operating pressure.	SS 233: 2013
	<b><u>Regulator</u></b> Regulator, which is a non-adjustable device intended for household use that maintains the outlet pressure constant at a nominal value up to and including 50 mbar, independent, within specified limits, of inlet pressure or flow rate.	SS 281: 1984
	<b><u>Valve</u></b> Valve, which is a device that is made from brass, bronze or aluminium forging, intended for household use with liquefied petroleum gas cylinders, to control the direction and volume of flow of the liquefied petroleum gas.	SS 294: 1998
Domestic electric wall switch 	Domestic electric wall switch, which is an electrical manually operated general purpose switch for alternating current only, with a rated voltage not exceeding 440 V and a rated current not exceeding 63 A, intended for household fixed-electrical installations.	IEC 60669-1: 1998
		SS 403: 1997 (13A fused connection units switched)
Gas cooking appliances 	Gas cooking appliances, limited to built-in, table, free standing and portable gas cookers, which are cooking appliances intended for household use that use gas or liquefied petroleum gas obtained from a non-refillable gas canister up to 1.4 litres as fuel.	EN 30-1-1: 2008 Or AS 4551: 2008 (Valid till 30/03/2021) or AS 5263.1.1: 2016 (gas cooker)
		EN 30-1-2: 2012 (forced-convection gas oven)
		EN 30-1-3: 2003 (glass-ceramic gas hob with enclosed covered burner)
		EN 30-1-4: 2012 and IEC 60335-2-102: 2004 (gas cooker with automatic burner control system)

Controlled Goods	Definitions	Safety Standards
		SS 401: 1997 (Portable cooking gas appliance)
<b>Lamp control gears</b> 	Lamp control gear, which is an electrical device intended for household electrical installation that limits the current of the lamp or supplies constant current or constant voltage to power LED lighting.	IEC 61347-2-8: 2000 (magnetic type)
		IEC 61347-2-3: 2000 (electronic type)
		IEC 61347-2-13: 2006 (for LED driver)
<b>Mains socket-outlets</b> 	Mains socket-outlets, which are electrical devices that have 13-amp or 15-amp switched shuttered socket-outlets in a single or multiple arrangements, to engage with the pins of a corresponding plug designed for flush mounting in a suitable box or for surface or panel mounting.	SS 145: Part 2: 1997 (3-pin 13-amp socket-outlet)
		SS 145: Part 2: 2018 (3-pin 13-amp socket outlet incorporated with USB port(s) and/or energy monitoring device(s))
		BS 4177: 1992 (3-pin 13-amp socket-outlet) (cooker control unit)
		BS 7288: 1990 (3-pin 13-amp socket-outlet) (socket-outlet with RCD)
		SS 472: 1999 (3-pin round type 15-amp socket-outlet)
<b>Water heaters</b> 	Water heaters, limited to instantaneous and storage types, which are electrical appliances intended for household use to heat water below boiling temperature, with rated voltage of not more than 250 Vac.	IEC 60335-2-35: 2002 (Instantaneous electric water heater)
		IEC 60335-2-21: 2004 (Mains pressure electric storage water heater)
<b>Refrigerator</b> 	Refrigerator, which is an electrical appliance intended for household use that operates on the vapour compression principle for food storage and preservation, with rated voltage of not more than 250 Vac.	IEC 60335-2-24: 2000