



# *Government Gazette*

of the State of

New South Wales

**Number 180–Electricity and Water**

**Friday, 28 April 2023**

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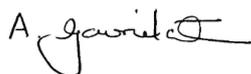
## Gas and Electricity (Consumer Safety) Act 2017

### Order under section 12

I, Andrew Gavrielatos, Executive Director, Regulatory Engagement, Better Regulation Division, Department of Customer Service as delegate under the Gas and Electricity (Consumer Safety) Act 2017 (the Act):

- (1) revoke, on and from the date on which this Order is published in the *New South Wales Government Gazette*, the Order dated 23 September 2021 published in the *New South Wales Government Gazette* of 1 October 2021 No 494 at page 1 ; and
- (2) pursuant to sections 12(2) and 12(3) of the *Gas and Electricity (Consumer Safety) Act 2017* by this Order, declare the electrical articles of a class described in Schedule 1 to be, on and from the date on which this Order is published in the *New South Wales Government Gazette*, declared electrical articles for the purposes of Part 2 of the *Gas and Electricity (Consumer Safety) Act 2017* and the specifications, including modifications, specified in Schedule 1 to be those applicable to electrical articles of that class.

Date: 27/03/23



Andrew Gavrielatos  
Executive Director  
Regulatory Engagement  
Better Regulation Division  
Department of Customer Service

### Attachments

- Schedule 1

## Schedule 1

### Declared Electrical Articles

#### Interpretation:

Where a Class Specification references a part two to AS/NZS 60335 then AS/NZS 60335.1 shall be used in conjunction with this part two and forms part of the Class specification.

In this schedule a reference to:-

AS/NZS 60335.1 means AS/NZS 60335.1: 2020 (until 26 November 2023); or AS/NZS 60335.1:2020 + A1

AS/NZS 3100 means AS/NZS 3100:2022

AS/NZS 60745.1 means AS/NZS 60745.1: 2009 or AS/NZS 60745.1: 2003 +A1-3  
The 2009 edition will supersede AS/NZS 60745.1: 2003 and its amendments after all of the Parts 2 of that standard have been superseded

AS/NZS 60598.1 means AS/NZS 60598.1: 2017 + A1-2

AS/NZS 61347.1 means AS/NZS 61347.1: 2016 +A1

AS/NZS 61535 means AS/NZS 61535: 2011

AS/NZS 61558.1 means AS/NZS 61558.1:2008+A1-3 or AS/NZS61558.1:2018+A1-2

AS/NZS 62841.1 means AS/NZS 62841.1: 2015 +A1-2

“LED” means “Light Emitting Diode”

“Simple Portable luminaire” means a “portable luminaire” within the scope of Annex ZA of *AS/NZS 60598.2.4:2005 Requirements for portable luminaires (light fittings)*

“Supply to separate equipment” / “supply to separate luminaires” means the equipment or luminaire is not permanently connected and disconnection would not mean the destruction of the connection (e.g. by being in the same enclosure or by having a type Z connection)

#### 1. APPLIANCE CONNECTOR

An electrical device that –

- (a) is for attachment to a flexible cord; and
- (b) 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;

but does not include –

- (c) a connector within the scope of AS/NZS 3123; or
- (d) a plug or socket-outlet within the scope of AS/NZS 3131; or
- (e) an installation coupler within the scope of AS/NZS 61535.1
- (f) any associated Group 2 Appliance Connectors for connection to a specific electric blanket

Class specification:

Appliance connector –  
AS/NZS 60320.1: 2012

Plug connector –  
AS/NZS 60320.1: 2012 and AS/NZS 60320.2.2: 2004

Sewing machine connector –  
AS/NZS 60320.2.1: 2004

Standard Sheets as appropriate –  
IEC 60320.2.2, IEC 60320.1 or IEC 60320.3 Edition 1 2014 +A1-2

Note: Group 2 Appliance Connectors for connection to a specific electric blanket are captured by the specification of BLANKET

## **2. AIR CONDITIONER INCORPORATING FLAMMABLE REFRIGERANT-**

An electrical appliance that –

- (a) is for household use; and
- (b) incorporates motor compressors; and
- (c) is an electrical appliance designed to provide delivery of conditioned air to an enclosed space, room or zone; and
- (d) includes a refrigeration system for cooling, heating or dehumidifying the air, including hydronic room fan coil type systems; and
- (e) is portable, transportable or fixed; and
- (f) uses refrigerant having a flammability classification of Class 2 or Class 3 but not Class 2L in accordance with ISO 817. For refrigerant blends that have more than one flammability classification, the most unfavourable classification is taken.

Class specification:

AS/NZS 60335.2.40: 2019

## **3. ARC WELDING MACHINE**

An electrical appliance that –

- (a) is for use in the electric arc welding process;
- (b) is for connection to single phase low voltage supply;
- (c) is fitted with a flexible cord and plug rated at not more than 16 A;
- (d) can easily be moved from one place to another while it is connected to supply; and
- (e) has, for GMAW (gas metal arc welding), GTAW (gas tungsten arc welding), and FCAW (flux cored arc welding) machines, a 100% output rating not exceeding 65 A.

The 100% rating is calculated from the square root of the marked duty cycle expressed in decimal form multiplied by the marked output current associated with the duty cycle in amperes;

but does not include –

- (f) an arc welding machine promoted exclusively to industry.

Class specification:

Inverter type:  
IEC 60974-1:2017

Other-  
AS 60974.1:2020; or  
IEC 60974-6:2015 plus Clause 30.2 of AS/NZS 60335.1

Note: Clause 30.2 of AS/NZS 60335.1 is only relevant for non-metallic enclosures

## **4. BAYONET LAMPHOLDER**

An electrical device that –

- (a) accommodates a lamp with a bayonet cap of 15 mm or 22 mm nominal diameter;

but does not include –

- (b) a lampholder which by design is restricted to specific appliances; or
- (c) a lampholder which is for incorporation in industrial equipment only.

Class specification:

AS 61184: 2015 +A1-2

AS/NZS 3100 and AS/NZS 3117: 2015 +A1

## **5. BAYONET LAMPHOLDER ADAPTOR**

An electrical device that –

- (a) is for insertion into a B22 bayonet lampholder; and
- (b) is for connection to a flexible cord; or
- (c) has one or more lampholders.

Class specification:

AS/NZS 3100 and AS 3119: 2015

## **6. BLANKET**

An electrical appliance that –

- (a) is for the application of heat to a bed or human body;
- (b) is flexible;
- (c) has a fabric enclosure; and
- (d) has a projected surface area exceeding 0.6 square metres;

and includes -

- (e) any associated power supply or controller.
- (f) any associated Group 2 APPLIANCE CONNECTORS specific for the blanket

Class specification:

AS/NZS 60335.2.17: 2012 +A1-2

## **7. BREAD TOASTER – PORTABLE TYPE**

An electrical appliance that –

- (a) is a household type;
- (b) is for toasting bread or similar foods; and
- (c) is portable.

Class specification:

AS/NZS 60335.2.9: 2014 +A1–3 (until 26 June 2023); or AS/NZS 60335.2.9:2020

## **8. BUILDING WIRING CABLE**

A single or multicore electric cable insulated with polymeric materials that –

- (a) has one to five conductors of stranded or solid cores of copper conductors; and
- (b) has an insulated and laid up flat or circular configuration; and
- (c) is sheathed or unsheathed; and
- (d) has active phase conductors with a nominal cross-sectional area 0.5mm<sup>2</sup> to 16mm<sup>2</sup>; and
- (e) has an insulation designation of V-75, V-90, V-90HT or X-90; and
- (f) is intended for use in electrical installations at working voltages up to:-
  - (i) 450/750V; or
  - (ii) 0.6/1 (1.2) kV

but does not include the following exempt types –

- (g) armoured, metallic screened and metal sheathed cables;
- (h) halogen free cables;
- (i) cables with a Fire Rating;
- (j) Supply Flexible Cords;
- (k) cables where the insulation of the conductors are not individually coloured;
- (l) cables with a conductor flexibility of Class 5 or greater according to AS/NZS 1125;
- (m) cables not captured by the scope of AS/NZS 5000.1 or AS/NZS 5000.2.

Class Specification:-

For working voltages up to 450/750V - AS/NZS 5000.2: 2006; or  
For working voltages up to 0.6/1 (1.2) kV - AS/NZS 5000.1: 2005+A1

Note: A Supply Flexible Cord is captured by the definition of ‘Supply Flexible Cord’ elsewhere in this schedule.

Note: Cables where the insulation of the conductors are not individually coloured are usually considered control cables for specialised purposes.

Note: Cables that have a conductor flexibility of Class 5 according to AS/NZS 1125 are commonly known as Flexible Cable.

Note: Cables used for the ‘consumers mains’ and Extra Low Voltage cables are previously excluded by the Act by being outside the definition of electrical installation.

Note: The scopes of AS/NZS 5000.1 and AS/NZS 5000.2 do not apply to polymeric insulated cables for special installations and service conditions or for which there are separate Australian/New Zealand Standards.

## **9 CLOTHES DRYER**

An electrical appliance that –

- (a) is a household type; and
- (b) is for drying textile material using electrical energy.

but does not include –

- (c) a heated towel rail; or
- (d) a gas appliance having electrical connections.

Class specification:

Rotary type –  
AS/NZS 60335.2.11: 2017 (until 26 June 2023); or AS/NZS 60335.2.11:2020

Cabinet type –  
AZ/NZS 60335.2.43:2018

High Speed Spin Extractor –  
AS/NZS 60335.2.4: 2010 +A1-4- (until 26 November 2024); or AS/NZS 60335.2.4: 2021

## **10. CONTROL OR CONDITIONING DEVICE**

An electrical device that –

- (a) is a household type;
- (b) is for automatically controlling or conditioning the electrical input to electrical apparatus via outlet facilities of the control or conditioning device;

- (c) is portable, including devices connected to supply by integral pins for engagement with a socket-outlet;
- (d) is self-contained; and
- (e) connects to supply by means of a flexible cord and plug, appliance inlet or pins for engagement with a socket-outlet.

Class specification:

AS/NZS 3100 and 3105: 2014 +A1

#### **11. COOKING APPLIANCE – PORTABLE TYPE**

An electrical appliance that –

- (a) is a household type;
- (b) is for cooking or warming food by electrical energy; and
- (c) is portable.

Class specification:

Griller, roaster, or oven (including breadmaker)-  
AS/NZS 60335.2.9: 2014 +A1-3 (until 26 June 2023); or AS/NZS 60335.2.9:2020

Warming plate and similar-  
AS/NZS 60335.2.12:2018

Frying pan, deep fryer or wok-  
AS/NZS 60335.2.13: 2017

Outdoor Barbecue  
AS/NZS 60335.2.78:2019

#### **12. CORD EXTENSION SOCKET**

An electrical device that –

- (a) is for attachment to a flexible cord;
- (b) has a maximum rating of 20 A at low voltage; and
- (c) has contacts whereby a detachable connection may be made with the corresponding pins of a plug or an inlet;

but does not include -

- (d) a connector or appliance connector designated in AS/NZS 3123; or
- (e) a socket outlet designated in AS/NZS 3131; or
- (f) an installation coupler designated in AS/NZS 61535.1

Class specification:

AS/NZS 3100 and AS/NZS 3120: 2011 +A1 (until 1 October 2023) or AS/NZS 3120:2021

#### **13. CORD-LINE SWITCH**

An electrical device that –

- (a) is for attachment in a flexible cord;
- (b) manually opens and closes an electrical circuit; and
- (c) has a rating not exceeding 16 A at low voltage;

but does not include –

- (d) bell push and pendant switches.

Class specification:

Air-break type –  
AS/NZS 3100 and AS/NZS 3127: 2005

Electronic type –  
AS/NZS 3100 and AS/NZS 3127: 2005, with AS/NZS 3127: 2005 Clause 12.1 modified to replace all references to AS/NZS 3133 with AS/NZS 60669.2.1

#### **14. DC ISOLATOR**

An electrical device that –

- (a) is an air-break d.c. rated isolator; and
- (b) has a rated operational current not exceeding
  - 32A (until 31 December 2023);
  - 50A (from 1 January 2024); and
- (c) has a utilization category DC-PV2; and
- (d) is for connection to the wiring of a photovoltaic (PV) electrical installation (including within Power Conditioning Equipment), other renewable energy installation, or energy storage installation;  
and includes
- (e) the dedicated individual enclosure (if any), where the d.c. isolator is classified as enclosed outdoor.

NOTE: A ‘dedicated individual enclosure’ includes a single dc isolator in an enclosure or multiple dc isolators in a common enclosure, but does not include the enclosure where the dc isolator is to be installed integral within a Power Conditioning Equipment (PCE) enclosure or is to be installed in an enclosure that complies with a relevant standard for assemblies for use in photovoltaic networks.

NOTE: An example of Power Conditioning Equipment (PCE) is an inverter

Class specification:

AS 60947.3:2018

#### **15. DECORATIVE LIGHTING OUTFIT**

An electrical appliance that –

- (a) is for decorative, display or illumination purposes;
- (b) is portable;
- (c) consists of -
  - (i) lamps (including “LED” types) or lampholders interconnected by flexible cord of less than 2.5 mm<sup>2</sup> cross-sectional area; or
  - (ii) lamps (including “LED” types) within a flexible enclosure; and
- (d) may be integral with a frame or similar support;  
and includes –
- (e) any integral power supply or control device.

Class specification:

Rope lights –  
AS/NZS 60598.2.21: 2018

Other, including lighting chains and festoon lighting–  
AS/NZS 60598.2.20: 2018

#### **16. DISHWASHING MACHINE**

An electrical appliance that –

- (a) is a household type; and
- (b) is for washing of eating or cooking utensils.

Class specification:

AS/NZS 60335.2.5:2014 +A1-3

#### **17. DOUBLE CAPPED LIGHT EMITTING SEMICONDUCTOR LAMP**

An electrical appliance that –

- (a) is a tubular light emitting semiconductor light source;
- (b) is a double-capped lamp; and
- (c) has integral, built-in or independent control gear;

but does not include –

- (d) a self-ballasted light emitting semiconductor light source within the scope of AS/NZS 62560

Class Specification:

AS/NZS 60598.2.1: 2014 +A1-2 Appendix A

#### **18. EDISON SCREW LAMPHOLDER**

An electrical device that –

- (a) accommodates a lamp with an Edison screw cap of 14 mm or 27 mm nominal outside diameter;

but does not include –

- (b) a lampholder which by design is restricted to specific appliances; or
- (c) a lampholder which is for incorporation in industrial equipment only.

Class specification:

AS/NZS 3100 and AS/NZS 3140: 2014 +A1 or  
AS/NZS 60238: 2015 +A1-2 (until 13 May 2025); or AS/NZS 60238:2022

#### **19. EVAPORATIVE COOLER**

An electrical appliance that —

- (a) is a device that cools air through evaporation of water;
- (b) incorporates a fan for moving air; and
- (c) is fixed with one or more vents.

But does not include:

- (d) An evaporative cooler that has a rated airflow greater than 3,500 L/s.

Class specification:

AS/NZS 60335.2.98:2005 +A1-2 (R2016)

#### **20. FAN**

An electrical appliance that –

- (a) is a household type;
- (b) has a primary function of moving air in its vicinity for comfort or extraction purposes; and

(c) is self-contained;

and includes –

(d) duct fans,

(e) any associated ancillary equipment

Class specification:

AS/NZS 60335.2.80: 2016 +A1-2

## **21. FENCE ENERGISER**

An electrical appliance that regulates and controls the supply of electrical energy to an electric fence.

Class specification:

AS/NZS 60335.2.76: 2019

## **22. FLEXIBLE HEATING PAD** – an electrical appliance that–

(a) is for the application of heat to parts of the human body; and

(b) is in the form of a flexible pad (which may or may not contain a liquid); and

(c) has a projected area not exceeding 0.6 m<sup>2</sup>.

and includes:-

(d) an electric hot water bottle

but does not include:-

(e) appliances specifically intended for use under direct medical supervision.

Class specification:

Foot warmer, foot mat, electric hot water bottle:

AS/NZS 60335.2.81: 2015 +A1-2 (until 6 May 2023); or AS/NZS 60335.2.81:2015 + A1-3

Other:

AS/NZS 60335.2.17: 2012 +A1-2

## **23. FLOOR POLISHER SCRUBBER**

An electrical appliance that –

(a) is a household type; and

(b) is used to polish or scrub floors.

Class Specification:

AS/NZS 60335.2.10: 2006 +A1

## **24. FLUORESCENT LAMP BALLAST**

An electrical device that –

(a) is for controlling the magnitude of current flowing through the discharge path of a fluorescent lamp;

(b) is of the independent or built-in type intended for use with luminaires (portable or fixed); or

(c) is of the integral type, rated at 60 watts or less, such that it forms a non-replaceable part of a fluorescent lamp/ballast combination; or

- (d) is of the adaptor type such that it allows the insertion of a fluorescent lamp into the ballast by the user;

and includes –

- (e) any capacitor incorporated in or supplied with the ballast;

but does not include –

- (f) a ballast which is incorporated in luminaires certified for compliance with the requirements for electrical equipment with increased safety type protection (Ex e) for use in hazardous locations.

Class specification:

Integral (self-ballasted lamp) magnetic and electronic types-  
AS/NZS 60968: 2001

Other magnetic type-  
AS/NZS 61347.1 and AS/NZS 61347.2.8: 2003

Other electronic type  
AS/NZS 61347.1 and AS/NZS 61347.2.3: 2016

Fluorescent lamp adaptors (T8:T5)  
AS/NZS 61347.1 and AS/NZS 61347.2.3: 2016 and the relevant requirements of AS/NZS 60598.2.1: 2014 +A1-2

## **25. FLUORESCENT LAMP STARTER**

An electrical device that –

- (a) is for starting preheat type fluorescent lamps;  
(b) is a glow-start type; and  
(c) has an enclosure of insulating material.

Class specification:

AS 60155:2018

## **26. GLUE GUN**

An electrical appliance that –

- (a) is a household type;  
(b) is hand held; and  
(c) is for melting and applying sticks of solid adhesive;

but does not include—

- (d) a glue gun promoted exclusively to industry.

Class specification:

AS/NZS 60335.2.45: 2012

## **27. HAIR CARE APPLIANCE**

An electrical appliance that –

- (a) is a household type or a commercial hand-held type; and  
(b) is for drying, styling or the caring of human hair.

Class specification:

AS/NZS 60335.2.23: 2017 + A1-2

**28. HEDGE CLIPPER**

An electrical appliance that –

- (a) is for trimming hedges; and
- (b) has one or more reciprocating blades; and
- (c) is hand held.

Class specification:

AS/NZS 60745.1 and AS/NZS 60745.2.15: 2010 (until 22 November 2023); or  
AS/NZS 62841.4.2: 2018

**29. IMMERSION HEATER**

An electrical appliance that –

- (a) is a household type;
- (b) is for heating liquid in which it may be immersed; and
- (c) is self-contained;

and includes –

- (d) aquarium type immersion heaters.

Class specification:

Aquarium type-  
AS/NZS 60335.2.55: 2011

Portable (other than aquarium) type-  
AS/NZS 60335.2.74: 2018

Fixed type-  
AS/NZS 60335.2.73: 2005 +A1-2

**30. INSECT ELECTROCUTOR**

An electrical appliance that –

- (a) is a household type; and
- (b) kills insects by the application of electrical energy.

Class specification:

AS/NZS 60335.2.59: 2005 +A1-3

**31. INSPECTION HANDLAMP**

An electrical appliance that –

- (a) is for inspection purposes using illumination;
- (b) contains an electric light source; and
- (c) is hand held;

but does not include –

- (d) handlamps with a magnification facility.

Class specification:

AS/NZS 60598.1 and AS/NZS 60598.2.8: 2015

### **32. IRON**

An electrical appliance that –

- (a) is a household type;
- (b) is for smoothing or pressing fabric by the application of heat or steam; and
- (c) is hand held except for any separate steam generator;

and includes –

- (d) any associated equipment.

Class specification:

Fabric steamer –

AS/NZS 60335.2.85: 2018

Other –

AS/NZS 60335.2.3: 2012 +A1

### **33. KITCHEN MACHINE**

An electrical appliance that –

- (a) is a household type;
- (b) is for the preparation of food by mechanical means; or
- (c) is for opening cans; or
- (d) is for sharpening of knives.

Class specification:

AS/NZS 60335.2.14: 2017 + A1

### **34. LAWN CARE APPLIANCE**

An electrical appliance that –

- (a) is a household type; and
- (b) is for cutting grass or lawn.

Class specification:

Mower -

AS/NZS 60335.2.77: 2002 +A1 (until 22 November 2023), or AS/NZS 62841.4.3:2021

Trimmer (with non-metallic filament line or cutter/s)-

60335.2.91: 2008 +A1 (until 22 November 2023), or AS/NZS 62841.4.4:2021

Trimmer (other)-

AS/NZS 60335.2.91: 2008 +A1 (until 22 November 2023), or AS/NZS 62841.4.4:2021

Grass Shears:

AS/NZS 60335.2.94: 2008 (until 22 November 2023), or AS/NZS 62841.4.5:2022

### **35. LIGHT EMITTING SEMICONDUCTOR LAMP (SELF BALLASTED)**

An appliance that –

- (a) incorporates a light emitting semiconductor light source; and
- (b) has any additional elements necessary for stable operation of the light source incorporated within the lamp body and permanently connected to the light source; and
- (c) has a rated voltage greater than 50 V and up to and including 250 V; and
- (d) has a rated Wattage no greater than 20W or for LED PAR types no greater than 25W; and

- (e) intended for connection to supply via means of a B15, B22, E14, E27, G9 or GU10 lamp cap for insertion into a lampholder.

but does not include—

- (f) a double capped light emitting semiconductor lamp.

Class specification:

AS/NZS 62560: 2017+A1-2

### **36. LIQUID HEATING APPLIANCE**

An electrical appliance that –

- (a) is a household type;
- (b) is portable;
- (c) has a capacity not exceeding 10L; and
- (d) heats liquid for:
  - (i) humidifying room air; or
  - (ii) use in, or as, a hot beverage; or
  - (iii) cooking.

Class specification:

Humidifier-

AS/NZS 60335.2.98: 2005 +A1-2

Other-

AS/NZS 60335.2.15:2019

### **37. LUMINAIRE - PORTABLE TYPE**

An electrical appliance that –

- (a) is a household type;
- (b) provides illumination or for decorative purposes, produces light;
- (c) 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;
- (d) is for standing on a table or floor, or is fitted with a clamp, spike, or similar for attachment to vertical or horizontal surfaces;
- (e) is for use with tungsten filament, tubular fluorescent or other discharge lamps or Light Emitting Diode “LED” types; and is either –
- (f) constructed to represent a model, person or animal and by its design and materials is likely to be treated by a child as a toy; or
- (g) has metal parts which are required to be earthed or double insulated from live parts (excluding live parts of an all insulated lampholder)

but does not include –

- (d) Simple Portable Luminaires

Class specification:

Child appealing type (refer to clause (f))-

AS/NZS 60598.1 and AS/NZS 60598.2.10: 2015

Type fitted with a built-in transformer or convertor- AS/NZS 60598.1 and AS/NZS 60598.2.6: 1998.  
(R2013)

Type for Garden Use - AS/NZS 60598.1 and AS 60598.2.4:2019;

Other- AS/NZS 60598.1 and

AS 60598.2.4:2019

### **38. MESSAGE APPLIANCE**

An electrical appliance that –

- (a) is a household type;
- (b) is for massaging the human body;
- (c) is portable; and
- (d) is self-contained.

Class specification:

AS/NZS 60335.2.32: 2014 (until 27 November 2023); or AS/NZS 60335.2.32:2020

### **39. MICROWAVE OVEN**

An electrical appliance that –

- (a) is a household type; and
- (b) applies heat to food, liquid or other substances in a chamber by means of high frequency electromagnetic radiation.

Class specification:

AS/NZS 60335.2.25: 2011 +A1-2 (until 18 December 2023); or AS/NZS 60335.2.25:2020

### **40. MINIATURE OVERCURRENT CIRCUIT-BREAKER**

An electrical device that –

- (a) is an enclosed air-break switch;
- (b) opens a low voltage circuit automatically under pre-determined conditions of overcurrent;
- (c) has a nominal rating not exceeding 125 A; and has –
  - (i) a current breaking capacity up to but not including 10kA and/or
  - (ii) a projected panel mounting area not exceeding 4000 square millimetres per pole;

but does not include –

- (d) miniature overcurrent circuit-breakers as defined but which:
  - (i) are intended and marked as being only for use in industrial application; or
  - (ii) are intended only for use within and for protection of electrical equipment as distinct from circuit wiring and are appropriately marked.

Class specification:

AS/NZS 60898.1: 2004; or  
AS/NZS 60898.2: 2004 (R2016); or  
AS/NZS IEC 60947.2: 2015 (for DC circuit breakers outside the scope of AS/NZS 60898.2); or  
AS/NZS 3111: 2009 +A1-2

### **41. NIGHTLIGHT - MAINS SOCKET OUTLET MOUNTED**

An electrical appliance that –

- (a) is a household type;
- (b) incorporates integral pins for insertion into a socket outlet; and
- (c) is intended to provide a source of low-level illuminance in areas not normally illuminated at night.

but does not include –

- (d) other appliances with indicator lamps.

Class specification: AS/NZS 60598.2.12: 2015

#### **42. OUTLET DEVICE**

An electrical device that –

- (a) is a household type;
- (b) as its primary function, extends supply from a socket-outlet;
- (c) is portable;
- (d) incorporates facilities for the insertion of a plug or plugs; and
- (e) has a rating not exceeding 20 A;

but does not include –

- (f) a cord extension set.

Class specification:

Integral pin type (including travel adaptor) –

AS/NZS 3100 and AS/NZS 3122: 2015 (until 19 November 2023) or AS/NZS 3122: 2021

In this specification AS/NZS 3122 is modified to preclude types that can be wired or rewired by the user.

Other:-

AS/NZS 3100 and AS/NZS 3105: 2014 +A1

#### **43. PLUG**

An electrical device that –

- (a) makes a detachable connection between the contacts of a socket-outlet and the conductors of a flexible cord;
- (b) has two, three or four pins for insertion into a socket-outlet; and
- (c) has a rating not exceeding 20A;

but does not include -

- (d) a plug which is within the scope of AS/NZS 3123: 2005+A1 and is intended for industrial use;
- or
- (e) a plug which is within the scope of AS/NZS 3131: 2015 or AS/NZS 61535: 2011.

Class specification:

AS/NZS 3100 and AS/NZS 3112: 2017+A1

Note: It is intended to preclude plugs of a non-Australian type.

#### **44. POWER SUPPLY OR CHARGER**

An electrical appliance that –

- (a) provides an output not exceeding 50 volts a.c. or 120 volts ripple free d.c.; and
- (b) is a type to provide supply to separate luminaires; or
- (c) is a household type intended for either charging batteries or to provide a supply to separate equipment.

but does not include:

- (d) Information Technology and Audio Video equipment that can use the output to also transmit data that is not associated with a power supply or charger function.

Note: point (b) above “to provide supply to separate luminaires” is not limited to household types

Class specifications:

Power supply for general use-

AS/NZS 61558.1 and AS/NZS 61558.2.6: 2009 +A1 (until 24 June 2025) or AS/NZS 61558.2.6: 2022

AS/NZS 61558.2.16: 2010 +A1-3 (for switched mode types) (until 24 June 2025) or AS/NZS 61558.2.16: 2022.

Power supply (electronic or transformer types) designated for use with specific electronic equipment-

AS/NZS 60065: 2018 (until 15 Feb 2023); or

AS/NZS 60950.1:2015 (until 15 Feb 2023); or

AS/NZS 61558.1 and AS/NZS 61558.2.16: 2010 +A1-3 (for switched mode types) (until 24 June 2025) or AS/NZS 61558.2.16: 2022 or

AS/NZS 62368.1: 2018 (until 24 June 2025) or AS/NZS 62368.1:2022

NOTE: Specific Electronic equipment includes: Information Technology, Audio Visual equipment and USB power supplies

Power supply for toys-

AS/NZS 61558.1: 2008 and 61558.2.7: 2008 +A1; or

AS/NZS 61558.2.16: 2010 +A1-3 (for switched mode types) (until 24 June 2025) or AS/NZS 61558.2.16: 2022.

Power supply for bells or chimes-

AS/NZS 61558.1 and AS/NZS 61558.2.8: 2011 +A1; or

AS/NZS 61558.2.16: 2010 +A1-3 (for switched mode types) (until 24 June 2025) or AS/NZS 61558.2.16: 2022.

Power supply for lighting purposes-

Electronic Type, LED module: AS/NZS 61347.1 and AS 61347.2.13:2018

Electronic Type, Other: AS/NZS 61347.1 and AS/NZS 61347.2.2: 2007 (until 21 August 2023 )

AS/NZS 61347.2.2: 2020

Ferromagnetic Type: AS/NZS 61558.2.6: 2009 +A1(until 24 June 2025) or AS/NZS 61558.2.6: 2022

Power supply for Handlamps-

AS/NZS 61558.1 and AS/NZS 61558.2.9: 2011 +A1; or

AS/NZS 61558.2.16: 2010 +A1-3 (for switched mode types) (until 24 June 2025) or AS/NZS 61558.2.16: 2022.

Power Supply for fence energiser-

AS/NZS 61558.1 and AS/NZS 61558.2.6: 2009 +A1 (until 24 June 2025) or AS/NZS 61558.2.6: 2022 together with AS/NZS 60335.2.76: 2019; or

AS/NZS 61558.2.16: 2010 +A1-3 (until 24 June 2025) or AS/NZS 61558.2.16: 2022 together with AS/NZS 60335.2.76: 2019 (for switched mode types)

Battery charger-

AS/NZS 60335.2.29: 2017 +A1

#### **45. RANGE**

An electrical appliance that –

- (a) is a household type;
- (b) is for cooking food using heat produced by electrical energy; and
- (c) is stationary.

Class specification:

Fixed outdoor barbecue-

AS/NZS 60335.2.78:2019

Other-

AS/NZS 60335.2.6: 2014 +A1-2

**46. RANGE HOOD**

An electrical appliance that –

- (a) is a household type;
- (b) collects and/or filters air; and
- (c) is for installation above, or adjacent to, a cooking appliance.

Class specification:

AS/NZS 60335.2.31:2020

**47. RAZOR/HAIR CLIPPER**

An electrical appliance that –

- (a) is a household type; and
- (b) shaves, cuts or trims human hair.

Class specification:

AS/NZS 60335.2.8: 2013 +A1-2

**48. REFRIGERATOR/FREEZER**

An electrical appliance that –

- (a) is a household type; and
- (b) cools and stores food.

but does not include –

- (c) wine coolers

Class specification:

AS/NZS 60335.2.24: 2010 +A1-2 (until 26 November 2024); or AS/NZS 60335.2.24:2021 + A1

**49. RESIDUAL CURRENT DEVICE**

An electrical device that –

- (a) isolates or initiates a tripping signal to isolate a low-voltage supply to protected circuits, sockets-outlets or equipment in the event of a current flow to earth which exceeds a predetermined level;
- (b) may be fixed or portable;
- (c) has a rated residual current not exceeding 300 mA for devices intended for connection to fixed wiring or 30 mA for other devices; and
- (d) 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 -

- (e) a device intended to be used with a particular circuit-breaker other than a miniature overcurrent circuit-breaker; or
- (f) a device intended to protect an electricity supply authority distribution system; or
- (g) a device covered by AS 2081 and intended for mines use.

Class specification:

Without integral overcurrent protection -  
AS/NZS 61008.1: 2015 or AS/NZS 3190: 2016

With integral overcurrent protection -  
AS/NZS 61009.1: 2015 or;  
AS/NZS 3190: 2016 and AS/NZS 3111: 2009 +A1-2

Type 'B' and 'F' devices: IEC 62423:2009  
Type SPE – PRCD's: IEC 62335:2008

For portable types –

- (a) AS/NZS 3190: 2016; or
- (b) AS/NZS 3190: 2016 together with AS/NZS 3012: 2019 +A1 (Type PSOA); or
- (c) IEC 61540 and the PRCD and PSOA requirements of AS/NZS 3190

The specification(s) for RESIDUAL CURRENT DEVICE is modified to prohibit 'Type AC' RCDs from 30 April 2023

## **50. ROOM HEATER**

An electrical appliance that –

- (a) is a household type; and
- (b) is for heating, by electrical energy, the atmosphere for comfort purposes;

and includes –

- (c) an appliance that accommodates one or more heatlamps;

but does not include -

- (d) an air-conditioning appliance; or
- (e) a heating system that is intended to heat the atmosphere of a room primarily by raising the temperature of any floor, wall, or ceiling area; or
- (f) an under-carpet heating system.

Class specifications:

Thermal storage type-  
AS/NZS 60335.2.61: 2005 +A1-2

Other-  
AS/NZS 60335.2.30: 2015 +A1-3 (until 26 November 2023); or AS/NZS 60335.2.30:2015 + A1-4

## **51. SOCKET-OUTLET**

An electrical device that –

- (a) is for fixing at a point at which fixed wiring terminates;
- (b) provides a detachable connection with the pins of a plug;
- (c) has two, three or four contacts; and
- (d) has a rating not exceeding 20A.;

but does not include -

- (e) an outlet within the scope of AS/NZS 3123 or AS/NZS 3131 or AS/NZS 3194 or AS/NZS 61535.

Class specifications:

AS/NZS 3100 and AS/NZS 3112: 2017+A1; or  
AS/NZS 60884.1: 2013 (including annex ZZ).

Socket Outlets shall not allow projected plug portions for any aperture set to be overlapped.

## 52. SOLDERING IRON

An electrical appliance that –

- (a) is for the application or removal of solder; and
  - (b) is hand held;
- and includes -
- (c) any integral or associated power supply or controller;

but does not include –

- (d) a soldering iron promoted exclusively to industry.

Class specification:

AS/NZS 60335.2.45: 2012

## 53. SUBMERSIBLE PUMP

This definition becomes mandatory on 1 January 2023

An electrical appliance that –

- (a) is a householdtype;
- (b) is for pumping liquids (including a mixture of water and small solids) having a temperature not exceeding 90 °C;
- (c) has a rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances;
- (d) has any electrical part, or enclosure around any electrical part, completely or partially immersed in the liquid being pumped during normal use; and
- (e) is portable or fixed in position

but does not include -

- (f) swimming pool or spa equipment.

Class specification: AS/NZS 60335.2.41:2013 +A1

**Note:** SUBMERSIBLE PUMPS supplied from a voltage supply at or less than 50 VAC or 120 VDC are not captured by this definition

## 54. SUPPLY FLEXIBLE CORD

An electrical cord that –

- (a) is unshielded and flexible;
- (b) is designed for use at low voltage;
- (c) consists of two or three elastomer or PVC insulated cores of multistrand construction;
- (d) has a cross-sectional area of each conductor not exceeding 2.5 square millimetres; and
- (e) has for other than tinsel cords, individual wire strandings not exceeding -
  - (i) 0.21 mm for conductor sizes up to 1 square millimetre; or
  - (ii) 0.26 mm for conductor sizes exceeding 1 square millimetre;

but does not include -

- (f) a flexible cord which is marked in accordance with the CENELEC HAR marking scheme for flexible cords that is either;
  - directly connected to equipment; or
  - directly connected to approved non-rewirable accessories.
- (g) wiring contained entirely within the enclosure of equipment or an appliance.

Class specifications:

General flexible cord-

AS/NZS 3191: 2008; or

AS/NZS 60227.5: 2003 +A1 (PVC) or AS/NZS IEC 60227.5:2019; or

AS/NZS 60245.4: 2003 +A1 (Rubber) or AS/NZS IEC 60245.4:2020.

Halogen-free thermoplastic insulation cord-  
EN 50525-3-11: 2011 or IEC 62821-3:2015

Halogen-free crosslinked insulation cord-  
EN 50525-3-21: 2011

#### **55. SWIMMING POOL OR SPA EQUIPMENT**

An electrical appliance or device that –

- (a) is a transportable spa pool or transportable spa-bath, or
- (b) is for circulating air or water in a conventional bath; or
- (c) is for use in the operation or cleaning of a swimming pool, non-transportable spa pool or non-transportable spa-bath.

but does not include –

- (d) an appliance or device exclusively promoted for commercial use; or
- (e) a heat pump

Class specifications:

Pump-  
AS/NZS 60335.2.41: 2013 +A1

Spa pool, Spa bath or an appliance intended to circulate air or water in a conventional bath-  
AS/NZS 60335.2.60: 2018

UV radiation water treatment appliances-  
AS/NZS 60335.2.109: 2011 +A1-2

Other-  
AS/NZS 3100 and AS/NZS 3136: 2001 +A1-2

#### **56. THERAPEUTIC LAMP / BEAUTY CARE LAMP**

An electrical appliance that –

- (a) is a household type;
- (b) produces optical radiation for personal, cosmetic or nail hardening purposes; and
- (c) is portable.

Class specification:

For appliances incorporating lasers and intense light sources –  
AS/NZS 60335.2.113: 2017

Other -  
AS/NZS 60335.2.27: 2016 +A1 (until 26 June 2023); or AS/NZS 60335.2.27:2020

#### **57. TOOL - PORTABLE TYPE**

An electrical appliance that –

- (a) is for machining, drilling, sawing, or surface preparation; and
- (b) may be entirely supported by hand during operation;

but does not include –

- (c) a tool, portable type, promoted exclusively to industry.

Class specifications:

AS/NZS 60745.1 plus the in-effect AS/NZS 60745 Series Part 2

Where the published AS/NZS 60745 Series Part 2 has been superseded or does not exist:-

AS/NZS 62841.1 plus the appropriate AS/NZS 62841 Series Part 2

Other (where an AS/NZS 60745 Part 2 or AS/NZS 62841 Part 2 is not available) AS/NZS 3100 and AS/NZS 3160

#### **58. VACUUM CLEANER**

An electrical appliance that –

- (a) is a household type;
- (b) is portable; and
- (c) removes dust, dirt or moisture and the like from floor coverings by suction; or
- (d) removes garden refuse from lawns or paths and the like by suction.

Class specification:

Hand held garden type-  
AS/NZS 60335.2.100: 2003

Other;  
AS/NZS 60335.2.2: 2018 (until 26 June 2023); or AS/NZS 60335.2.2:2020

#### **59. WALL SWITCH**

An electrical device that –

- (a) is a household type; and
- (b) is either an air-break switch or an electronic switch; and
- (c) is for connection to the wiring of an electrical installation; and
- (d) is primarily for mounting on a vertical surface; and
- (e) is intended to turn a load ON or OFF; and
- (f) has a rating not exceeding 20 A;

but does not include—

- (g) automatic operation by means of motion sensors such as Passive Infrared sensors, Microwave sensors, Ultrasonic sensors or the like.

Class specification:

Air-break type –  
AS/NZS 3100 and AS/NZS 3133: 2013 +A1-2; or  
AS/NZS 3100 and AS/NZS 3133: 2020 (from 27 November 2022); or

Electronic type (including relay contacts or solid state contacts) –  
AS/NZS 60669.1: 2020 and AS/NZS 60669.2.1: 2020

#### **60. WASHING MACHINE**

An electrical appliance that –

- (a) is a household type; and
- (b) is used for washing clothes.

Class specification:

AS/NZS 60335.2.7: 2012 +A1-2 (until 26 June 2023); or AS/NZS 60335.2.7:2020

**61. WATER BED HEATER**

An electrical appliance that –

- (a) is for installation under a water bed envelope; and
- (b) heats water contained in that envelope;

and includes –

- (c) any associated control device.

Class specification:

AS/NZS 60335.2.66: 2012

**62. WATER HEATER**

An electrical appliance that –

- (a) is for heating and storage of water for bathing, washing or similar purposes;
  - (b) incorporates a heating element;
  - (c) is unvented; and
  - (d) has a storage capacity not less than 4.5 L nor more than 680 L.
- or
- (e) is for heating water;
  - (f) is of the instantaneous type; and
  - (g) incorporates live parts in contact with water.

Class specification:

Pressure storage –

AS/NZS 60335.2.21: 2013 +A1-2

Instantaneous –

AS/NZS 60335.2.35: 2013 +A1 (until 25 June 2023); or AS/NZS 60335.2.35:2013 + A1-2