

## ACMA mandated EMC standards

The Australian Communications and Media Authority (ACMA) incorporates the listed standard(s) as mandatory standards under section 162 of the *Radiocommunications Act 1992* as part of the ACMA's Electromagnetic Compatibility (EMC) Regulatory Arrangement.

Suppliers must select an appropriate standard in column 2 of Part 2 of the table below as an applicable standard for a device. If none of the standards listed in Part 2 apply to a device then a generic standard from column 2 of Part 1 becomes the applicable standard for that device. The ACMA only mandates performance requirements in relation to emissions therefore compliance to standards within this list is only required to the extent that matters within the standard that relate to interference to: (a) radiocommunications; and, (b) any uses or functions of devices.

### Important notes:

**Note 1:** The expiry date of a standard refers to the date the ACMA no longer recognises the standard as an applicable standard for a particular device. For Standards Australia, IEC and CISPR standards, the expiry date of these standards occurs 2 years after its replacement standard is published. For example, when an existing standard is superseded by a newer version, in addition to the newer version, the existing standard will continue to be recognised as an applicable standard for a further 2 years after the publication date of the newer standard. After 2 years however, only the newer version of the standard is recognised. Suppliers should refer to Standards Australia, IEC and CISPR websites for relevant publication dates.

- The Standards Australia website is available [here](#).
- The IEC/CISPR website is available [here](#).

**Note 2:** For EN standards, unless stated otherwise, the expiry date of a standard is taken to be the expiry date published in the Official Journal of the European Union (OJEU).

- The Official Journal of the European Union is available [here](#).

**Note 3:** The applicable standard listed in column 2 is modified by any relevant notes listed in Column 10 of the table.

**Note 4:** In this version of the table some original columns have been removed as the information was not pertinent. Original column numbers have been retained to align the table with the *Radiocommunications (Electromagnetic Compatibility) Standard 2008*.

**Note 5:** \*For any standard listed with an AC, the ACMA will accept the test report with or without the AC as these are editorial changes

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Part 1 Generic standards				
1	2	3	7	10
Item No.	Applicable Standard	Full Title of Standard	Brief description of equipment type	Remarks
G1	AS/NZS 61000.6.3	Electromagnetic compatibility (EMC) – Part 6.3: Generic standards – Emission standard for residential, commercial and light-industrial environments	Equipment intended for use in a residential, commercial, or light industrial environment that is not covered by one of the product family standards	Harmonics and flicker not required
	EN 61000-6-3			
	IEC 61000-6-3			
G2	AS/NZS 61000.6.4	Electromagnetic compatibility (EMC) – Part 6.4: Generic standards – Emission standard for industrial environments	All equipment intended for use in an industrial environment that is not covered by one of the product family standards	Harmonics and Flicker not required
	EN 61000-6-4			
	IEC 61000-6-4			

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Part 2 – Product Family and Equipment Standards				
1	2	3	7	10
Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
1	EN 50083-2	Cabled networks for television signals and interactive services - Part 2: Electromagnetic Compatibility for Equipment	Cable networks for television signals, sound signals and interactive services	
2	IEC 60728-2	Cabled distribution systems for television and sound signals- Part 2: Electromagnetic Compatibility for Equipment	Cabled distribution systems for television and sound signals	
3	AS/NZS CISPR 11	Industrial scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement	Industrial scientific and medical (ISM) radio-frequency equipment	The 900 ISM band for Australia is 915-928 MHz, not 902-928 MHz as shown in the standard. 900 MHz ISM devices operating outside 915-928 MHz cannot be used in Australia.
	CISPR 11			
	EN 55011			
4	AS/NZS CISPR 12	Vehicles, boats and internal combustion engine driven devices – Radio disturbance characteristics – Limits and methods of measurement for the protection of receivers except those installed in the vehicle/boat/device itself or in adjacent vehicles/boats/devices	Land based vehicles (including electric powered vehicles), boats and devices with internal combustion engines	
	EN 55012			
	CISPR 12			

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
5	AS/NZS CISPR 13	Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement	Sound and television broadcast receivers, set top boxes, radio receivers, satellite receivers, analog and digital, DVD players, Video recorders, CD players, audio amplifiers, surround sound equipment	Compliance for equipment to CISPR 13 can be met through compliance with CISPR 32  AS/NZS CISPR 13 is expected to be withdrawn shortly (approximately February 2018).
6	AS/NZS CISPR 14.1	Electromagnetic Compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emissions	Household appliances, power tools, battery operated tools, electric and electronic toys, heating appliances, kitchen machines, motor operated appliances	
	EN 55014-1			
	CISPR 14-1			
7	AS/NZS CISPR 15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	Lighting equipment, lighting accessories such as ballasts, transformers, dimmers	Testing above 30 MHz mandatory from 9 Feb 2013
	EN 55015			
	CISPR 15			

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
8	AS/NZS CISPR 22	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	Information technology equipment, modems, fax machines, BPL modems	Testing radiated emissions above 1 GHz mandatory from 1 Oct 2011.  AS/NZS CISPR 22 is expected to be withdrawn shortly (approximately February 2018).
8A	AS/NZS CISPR 32	Electromagnetic compatibility of multimedia equipment - Emission requirements	Information technology equipment, modems, fax machines, BPL modems	CISPR 32 replaces CISPR 13 and CISPR 22.
	EN 55032		Sound and television broadcast receivers, set top boxes, radio receivers, satellite receivers, analog and digital, DVD players, Video recorders, CD players, audio amplifiers, surround sound equipment	
	CISPR 32		Multimedia equipment intended primarily for professional use	
9	EN 60974-10	Arc welding equipment – Part 10: Electromagnetic compatibility (EMC) requirements	Arc welding equipment	
	IEC 60974-10			

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
10	EN 50065-1	Specification for signalling on low-voltage electrical installations in the frequency range 3 kHz to 148.5 kHz. General requirements, frequency bands and electromagnetic disturbances	Signalling on low-voltage electrical installations	
11	IEC 61000-3-8	Electromagnetic compatibility (EMC) - Part 3: Limits - Section 8: Signalling on low-voltage electrical installations - Emission levels, frequency bands and electromagnetic disturbance levels	Signalling on low-voltage electrical installations	
12	AS 62040.2	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	Uninterruptible power systems (UPS)	Immunity, harmonics and flicker not required
	EN 62040-2			
	IEC 62040-2			
13	EN 50148	Electronic taximeters	Electronic taximeters	
14	EN60255-26	Measuring relays and protection equipment – Part 26:Electromagnetic compatibility requirements	Measuring relays and protection equipment	
15	EN 50270	Electromagnetic compatibility. Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
16	EN 55103-1	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 1: Emission	Professional audio / video equipment	See 8A above.
17	EN 60204-31	Safety of machinery - Electrical equipment of machines - Part 31: Particular safety and EMC requirements for sewing machines, units and systems	Sewing Machines designed specifically for professional use in the sewing industry	
	IEC 60204-31			
18	EN 61439-1	Low-voltage switchgear and control gear assemblies - Part 1: Type-tested and partially type-tested assemblies	Low-voltage switch gear and control gear assemblies	
	IEC 61439-1	Low-voltage switchgear and control gear assemblies - Part 1: General rules		
19	EN 60669-2-1	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches	Electronic switches for household and similar use	
	IEC 60669-2-1			
20	EN 60669-2-2	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)	Electromagnetic remote-control switches (RCS) for household and similar use	
	IEC 60669-2-2			

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
21	EN 60669-2-3	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)	Time-delay switches (TDS) for household and similar use	
	IEC 60669-2-3			
22	EN 62053-22	Electricity metering equipment (a.c.) - Particular requirements - Part 22: Static meters for active energy (classes 0,2 S and 0,5 S)	Static meters for active energy (classes 0,2 S and 0,5 S)	
	IEC 62053-22			
23	EN 60730-1	Automatic electrical controls for household and similar use - Part 1: General requirements	Automatic electrical controls for household and similar use	
	IEC 60730-1			
24	EN 60730-2-5	Automatic electrical controls for household and similar use - Part 2-5: Particular requirements for automatic electrical burner control systems	Automatic electrical burner control systems for household and similar use	
	IEC 60730-2-5			
25	EN 60730-2-6	Automatic electrical controls for household and similar use - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements	Automatic electrical pressure sensing controls for household and similar use	
	IEC 60730-2-6			
26	EN 60730-2-7	Automatic electrical controls for household and similar use. Part 2: Particular requirements for timers and time switches	Timers and time switches for household and similar use	
	IEC 60730-2-7			



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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
27	EN 60730-2-8	Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements	Electrically operated water valves for household and similar use	
	IEC 60730-2-8			
28	EN 60730-2-9	Automatic electrical controls for household and similar use - Part 2-9: Particular requirements for temperature sensing controls	Temperature sensing controls for household and similar use	
	IEC 60730-2-9			
29	EN 60730-2-11	Automatic electrical controls for household and similar use - Part 2-11: Particular requirements for energy regulators	Energy regulators for household and similar use	
	IEC 60730-2-11			
30	EN 60730-2-13	Automatic electrical controls for household and similar use - Part 2-13: Particular requirements for humidity sensing controls	Humidity sensing controls for household and similar use	
	IEC 60730-2-13			
31	EN 60730-2-14	Automatic electrical controls for household and similar use - Part 2-14: Particular requirements for electric actuators	Electric actuators for household and similar use	
	IEC 60730-2-14			
32	IEC 60730-2-15	Automatic electrical controls for household and similar use - Part 2: Particular requirements for automatic electrical water and air flow sensing controls	Automatic electrical water and air flow sensing controls for household and similar use	
	EN 60730-2-15			

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
33	EN 60870-2-1	Telecontrol equipment and systems - Part 2: Operating conditions - Section 1: Power supply and electromagnetic compatibility	Telecontrol equipment and systems	
	IEC 60870-2-1			
34	EN 60945	Maritime navigation and radio-communication equipment and systems - General requirements - Methods of testing and required test results	Maritime navigation and radio- communication equipment and systems	
	IEC 60945			
35	EN 60947-1	Low-voltage switch gear and control gear - Part 1: General rules	Low voltage switch gear and control gear	
36	EN 60947-2	Low-voltage switchgear and control gear - Part 2: Circuit-breakers	Circuit breakers	
	IEC 60947-2			
37	EN 60947-3	Low-voltage switch gear and control gear - Part 3: Switches, disconnectors, switch- disconnectors and fuse-combination units	Switches, disconnectors, switch- disconnectors and fuse-combination units	
	IEC 60947-3			
38	EN 60947-4-1	Low-voltage switch gear and control gear - Part 4-1: Contactors and motor-starters -	Contactors and motor-starters - Electro- mechanical contactors and motor-starters	

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	IEC 60947-4-1	Electromechanical contactors and motor-starters		
39	EN 60947-4-2	Low-voltage switch gear and control gear - Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters	Contactors and motor-starters - AC semiconductor motor controllers and starters	
	IEC 60947-4-2			
40	EN 60947-4-3	Low-voltage switch gear and control gear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads	Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads	
	IEC 60947-4-3			
41	EN 60947-5-1	Low-voltage switch gear and control gear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices	Control circuit devices and switching elements - Electro-mechanical control circuit devices	
	IEC 60947-5-1			
42	EN 60947-5-2	Low-voltage switch gear and control gear - Part 5-2: Control circuit devices and switching elements - Proximity switches	Control circuit devices and switching elements - Proximity switches	

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
	IEC 60947-5-2			
43	EN 60947-5-3	Low-voltage switch gear and control gear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDF)	Proximity devices with defined behaviour under fault conditions	
	IEC 60947-5-3			
44	EN 60947-5-6	Low-voltage switch gear and control gear - Part 5-6: Control circuit devices and switching elements - DC interface for proximity sensors and switching amplifiers (NAMUR)	DC interface for proximity sensors and switching amplifiers (NAMUR)	
	IEC 60947-5-6			
45	EN 60947-6-1	Low-voltage switch gear and control gear - Part 6-1: Multiple function equipment - Transfer switching equipment	Multiple function equipment - Transfer switching equipment	
	IEC 60947-6-1			
46	EN 60947-6-2	Low-voltage switch gear and control gear - Part 6-2: Multiple function equipment - Control and protective switching devices (or equipment) (CPS)	Multiple function equipment - Control and protective switching devices (or equipment) (CPS)	
	IEC 60947-6-2			
47	EN 61008-1	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)	
	IEC 61008-1			

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
48	EN 62053-21	Electricity metering equipment (a.c.) - Particular requirements - Part 21: Static meters for active energy (classes 1 and 2)	Static meters for active energy (classes 1 and 2)	
	IEC 62053-21			
49	EN 62054-11	Electricity metering (a.c.) - Tariff and load control - Part 11: Particular requirements for electronic ripple control receivers	Electronic ripple control receivers	
	IEC 62054-11			
50	EN 62054-21	Electricity metering (a.c.) - Tariff and load control - Part 21: Particular requirements for time switches	Time switches	
	IEC 62054-21			
51	EN 62053-23	Electricity metering equipment (a.c.) - Particular requirements - Part 23: Static meters for reactive energy (classes 2 and 3)	Static meters for reactive energy (classes 2 and 3)	
	IEC 62053-23			
52	EN 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	Electrical equipment for measurement, control and laboratory use	
	IEC 61326-1			
53	EN 61543			

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Serial	Applicable Standard	Title of Standard	Brief description of equipment to which standard should apply	Remarks
	IEC 61543	Residual current-operated protective devices (RCDs) for household and similar use - Electromagnetic compatibility	Residual current-operated protective devices (RCDs) for household and similar use	
54	EN 61800-3	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	Adjustable speed electrical power drive systems	
	IEC 61800-3			
55	EN 61812-1	Specified time relays for industrial use - Part 1: Requirements and tests	Specified time relays for industrial use	
	IEC 61812-1			
56	EN 300 386	Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; Electromagnetic Compatibility (EMC) requirements	Telecommunication network equipment	
57	ISO 13766	Earthmoving Machinery –Electromagnetic compatibility	Agricultural and forestry machinery	
58	ISO 14982	Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria	Agricultural and forestry machinery	
59	EN 50561-1	Power Line Communication Apparatus Used In Low-Voltage Installations - Radio Disturbance Characteristics - Limits And Methods Of Measurement - Part 1: Apparatus For In-Home Use	In-home powerline telecommunications equipment	
60	UN ECE R10	Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility	Motor vehicles and accessories	Immunity, harmonics and flicker not required

