



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

COMPLIANCE ENGINEERING SERVICES
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ELECTRICAL

Valid To: November 30, 2025

Certificate Number: 2829.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on automotive sub-components, information technology equipment (ITE), medical electrical equipment, electric motors, and various electronic and electrical components/systems:

Test Technology:

Test Method(s)¹:

Automotive EMC

RF Emissions
(Radiated and Conducted)

CISPR 25 (2008); CISPR 25;
EN 55025 (2008); EN 55025;
AS/NZS CISPR 25 (2004);
AS/NZS CISPR 25;
AS/NZS CISPR 36

Electrostatic Discharge (ESD)
Immunity

ISO 10605 (2008); ISO 10605

Absorber Lined Shielded Enclosure
(ALSE) RF Immunity

ISO 11452-2 (2004); ISO 11452-2

TEM Cell RF Immunity

ISO 11452-3 (2001); ISO 11452-3

Bulk Current Injection RF Immunity

ISO 11452-4 (2005); ISO 11452-4

Stripline Immunity

ISO 11452-5 (2002); ISO 11452-5

Immunity to Magnetic Fields

ISO 11452-8 (2015); ISO 11452-8

Portable Transmitter RF Immunity

ISO 11452-9 (2012); ISO 11452-9

Automotive Transient Immunity

ISO 7637-2 (2004); ISO 7637-2;
ISO 7637-3 (2007);
ISO 7637-3

Test Technology:

Test Method(s)¹:

Electrical Load
Electric Vehicle Conductive Charging System
Automotive EMC

ISO 16750-2;
IEC 61851-21-2;
UN ECE REG 10 (Automotive)

Earth-moving and building
construction machinery – Machines
with internal electrical power supply

ISO 13766-1;
ISO 13766-2

Unintentional Emissions Radiated & Conducted

U.S. (FCC)
*(3m semi-anechoic chamber,
up to 40 GHz)*

47 CFR, FCC Part 15, Subpart B
(using ANSI C63.4-2014);
ANSI C63.4-2014; ANSI C63.4a-2017

**Industrial, Scientific, and Medical
(Consumer ISM)**

47 CFR, FCC Part 18 (using MP-5:1986);
MP-5:1986

**Canada (ISED)
Unintentional Radiators**

ICES-003

**Industrial, Scientific, and Medical
(ISM) Radio Frequency Generators**

ICES-001

**International
Unintentional Radiators**

Information Technology

AS/NZS CISPR 22; CISPR 22; EN 55022

Multimedia Equipment

AS/NZS CISPR 32; CISPR 32; EN 55032

Intentional Emissions Unlicensed Transmitters

U.S. (FCC)

Intentional Radiators

47 CFR, FCC Part 15 C Unlicensed Transmitters
(using ANSI C63.10-2013);
ANSI C63.10-2013

U-NII without DFS Intentional Radiators

47 CFR FCC Part 15 E, U-NII without DFS
(using ANSI C63.10-2013)

**Canada (ISED)
Intentional Radiators**

RSS-GEN;
RSS-102 Measurement (RF Exposure);
RSS-210; RSS-247 (without DFS); RSS-310

Generic Standards (Residential)

AS/NZS 61000.6.3; IEC 61000-6-3; EN 61000-6-3

Generic Standards (Industrial)

AS/NZS 61000.6.4; IEC 61000-6-4; EN 61000-6-4



Test Technology:**Test Method(s)¹:**

Industrial, Scientific, and Medical	AS CISPR 11; CISPR 11; EN 55011
Vehicles, Boats, and Internal Combustion Engines	AS/NZS CISPR 12; CISPR 12; EN 55012
Household Appliances, Electric Tools, and Similar Apparatus	AS/NZS CISPR 14.1; CISPR 14.1; EN 55014-1
Electrical Lighting & Similar Equipment	AS/NZS CISPR 15; CISPR 15; EN 55015
Information Technology	AS/NZS CISPR 22; CISPR 22; EN 55022
Multimedia Equipment	AS/NZS CISPR 32; CISPR 32; EN 55032; AS/NZS CISPR 35; CISPR 35; EN 55035
Vehicles, Boats, and Other Devices Equipped with Internal Combustion Engines, Traction Batteries, or Both	ICES-002
Information Technology Equipment (including digital apparatus)	ICES-003
Lighting Equipment	ICES-005
Medical Electrical Equipment – Part 1-2: General Requirements for Basic Safety & Essential Performance – Collateral Standard: Electromagnetic Disturbance – Requirements and Tests	IEC 60601-1-2; EN 60601-1-2
Electrical Equipment for Measurement, Control and Laboratory use – EMC Requirements – Part 2-6: Particular Requirements – in vitro Diagnostic (IVD) Medical Equipment	IEC 61326-2-6; EN 61326-2-6
Electrical Equipment for Measurement, Control & Laboratory use – EMC Requirements – Part 1: General Requirements	IEC 61326-1; EN 61326-1
Railway Applications – EMC Part 3-2: Rolling Stock – Apparatus	EN 50121-3-2
Railway Applications – EMC – Part 4: Emission & Immunity of the Signaling & Telecommunications Apparatus	EN 50121-4
Railway Applications – Rolling Stock Electronic Equipment	EN 50155

Test Technology:

Test Method(s)¹:

Electromagnetic Compatibility –
Product Family Standard for Audio, Video,
Audio-visual, and Entertainment Lighting
Control Apparatus for Professional use –
Emissions

EN 55103-1

Road Traffic Signal Systems – EMC

EN 50293

Electrical Apparatus for the Detection and
Measurement of Combustible Gases,
Toxic Gases, or Oxygen

EN 50270

Harmonic Current Emissions

AS/NZS 61000-3-2; IEC 61000-3-2; EN 61000-3-2

Voltage Fluctuation and Flicker Emissions

AS/NZS 61000-3-3; IEC 61000-3-3; EN 61000-3-3

Immunity EMC

Electrostatic Discharge (ESD)
Immunity

EN 61000-4-2 (2009); EN 61000-4-2;
IEC 61000-4-2 (2008); IEC 6100-4-2;
AS/NZS 61000.4.2 (2002); AS/NZS 61000.4.2

Radiated RF Immunity

EN 61000-4-3 (2008); EN 61000-4-3;
IEC 61000-4-3 (2008); IEC 61000-4-3;
AS/NZS 61000.4.3 (2006); AS/NZS 61000.4.3

Electric Fast Transient / Burst
Immunity

EN 61000-4-4 (2005); EN 61000-4-4;
IEC 61000-4-4 (2004); IEC 61000-4-4;
AS/NZS 61000.4.4 (2006); AS/NZS 61000.4.4

Surge Immunity

EN 61000-4-5 (2006) (*excluding clause 6.2*);
EN 61000-4-5 (*excluding clause 6.2*);
IEC 61000-4-5 (2005) (*excluding clause 6.2*)

Conducted RF Immunity

EN 61000-4-6 (2007); EN 61000-4-6;
IEC 61000-4-6 (2008); IEC 61000-4-6;
AS/NZS 61000.4.6 (2006); AS/NZS 61000.4.6

Power Frequency Magnetic
Field Immunity

EN 61000-4-8 (1994); EN 61000-4-8;
IEC 61000-4-8 (2001); IEC 61000-4-8;
AS/NZS 61000.4.8 (2002); AS/NZS 61000.4.8

Pulse Magnetic Field Immunity

EN 61000-4-9 (1993); EN 61000-4-9;
IEC 61000-4-9 (2001); IEC 61000-4-9

Damped Oscillatory Magnetic
Field Immunity

EN 61000-4-10 (2017); EN 61000-4-10;
IEC 61000-4-10 (2016); IEC 61000-4-10

Voltage Dips, Short Interruptions,
and Voltage Variations Immunity

EN 61000-4-11 (2004); EN 61000-4-11;
IEC 61000-4-11 (2004); IEC 61000-4-11;
AS/NZS 61000.4.11 (2004); AS/NZS 61000.4.11

Test Technology:

Test Method(s)¹:

Ring Wave Immunity

EN 61000-4-12 (2017); EN 61000-4-12;
IEC 61000-4-12 (2017); IEC 61000-4-12

Harmonic and Inter-harmonic Immunity

IEC 61000-4-13 (2002); IEC 61000-4-13;
EN 61000.4.13 (2009); EN 61000-4-13;
AS/NZS 61000.4.13 (2006); AS/NZS 61000.4.13

Common Mode Immunity

EN 61000-4-16 (2016); EN 61000-4-16;
IEC 61000-4-16 (2015); IEC 61000-4-16

Damped Oscillatory Immunity

EN 61000-4-18 (2019); EN 61000-4-18;
IEC 61000-4-18 (2019); IEC 61000-4-18

DC Dips and Interrupts

EN 61000-4-29; IEC 61000-4-29;
AS/NZS 61000.4.29

Military EMC

MIL-STD-461D / MIL-STD-462D,
(CE101, CE102, RE101, RE102, CS101, CS114,
CS115, CS116, RS101, RS103);
MIL-STD-461E,
(CE101, CE102, RE101, RE102, CS101, CS114,
CS115, CS116, RS101, RS103);
MIL-STD-461F,
(CE101, CE102, RE101, RE102, CS101, CS106,
CS114, CS115, CS116, RS101, RS103);
MIL-STD-461G (*up to 18 GHz and 200 V/m*),
(RE101, RE102, CE101, CE102, RS101, RS103,
CS101, CS114, CS115, CS116, CS118, CE106, RE103);
DEF STD 59-411, Part 03 (DCE01.B, DCE02.B,
DCE03.B, DCS01.B, DCS02.B, DCS03.B, DCS010.B,
DRE01.B, DRE02.B, DRS01.B, DRS02.B, DRS03.B);
MIL-STD-1275E;
MIL-STD-704F

Aircraft

RTCA DO-160 F and G:
Section 20.4: Radio Frequency Susceptibility
(Conducted);
Section 20.5: Radio Frequency Susceptibility
(Radiated – 2 MHz to 18 GHz up to 200 V/m);
RTCA DO-160 F and G:
Section 4: Temperature and Altitude
(*excluding section 4.6*)
Section 5: Temperature Variation Testing
Section 6: Humidity Testing
Section 7: Operation Shock and Crash Safety Testing
Section 8: Vibration Testing
Section 15: Magnetic Effect Testing
Section 16: Power Input Testing
Section 17: Voltage Spike Testing
Section 18: Audio Frequency Conducted
Susceptibility (Power Input Testing)
Section 19: Induced Signal Susceptibility



Test Technology:

Test Method(s)¹:

Aircraft (*continued*)

Section 20: Radio Frequency Susceptibility
(Radiated and Conducted)
Section 21: Emission of Radio Frequency Energy
Section 24: Icing Testing (Category A only)
Section 25: Electrostatic Discharge Immunity
Section 26: Fire Flammability

RF Shielding Performance

MIL-STD-285; IEEE 299

RADHAZ (Radiation Hazard)

AS 2772; ARPANSA RHS 30; IEC 62233

Electronic Switches

EN 60669-2-1 (Section 26); IEC 60669-2-1 (Section 26)

Gaming Machine National Standard
(GMNS)

AS/NZS GMNS Version 10.3 (Sections 2.3.51 to 2.3.59,
2.4.27, and 2.4.30a to 2.4.30d)

Generic Immunity

EN 61000-6-1; IEC 61000-6-1; AS/NZS 61000-6-1;
EN 61000-6-2; IEC 61000-6-2; AS/NZS 61000-6-2

Household EMC

AS/NZS CSIPR 14-2; CISPR 14-2

Household Safety

IEC 60335-1;
AS/NZS 60335-1 (Sections 14, 15, and 19.11.4)

Information Technology

AS/NZS CISPR 24; CISPR 24

Laboratory

EN 61326-1

Lighting

EN 61547

Maritime

EN 60945 (Sections 5.2.2, 7, 8, 9, 10, and 11.2)

Medical

EN 60601-1-2

Alarm Systems

EN 50130-4 (*excluding EN 61000-4-20*)

Overhead AC Powerlines and
HV Installations

AS 2344

Radio Spectrum Matters (ERM)

ETSI EN 300 220;
ETSI EN 300 328;
ETSI EN 300 330;
ETSI EN 301 843-1 (Maritime);
ETSI EN 301 843-5 (Maritime);
ETSI EN 301 489-1;
ETSI EN 301 489-3;
ETSI EN 301 489-17;
ETSI EN 301 489-19;
ETSI EN 301 489-20;
ETSI EN 302 064-2;
AS/NZS 4268;
AS/NZS 4770

Test Technology:

Test Method(s)¹:

Railway

EN 50121-3-1; EN 50121-3-2; IEC 50155

Traffic Signals

AS/NZS 2144; EN 50293

EMR

EN 62311

Road Vehicles

ISO 11451-2;
ISO 11451-3;
ISO 11451-4

Components – Valves Monitor

AS 4118.1.4

Environmental

Surface Resistance Test

IEC 60079-0 – Explosive Atmospheres –
Section 26.13 – Surface resistance test of part of
enclosures of non-metallic materials;
ASTM D257-14 – DC Resistance or Conductance of
Insulating Materials - Section 12.3 –
Surface Resistance or Conductance.

Temperature / Humidity

IEC 60068-2-1 (2007); IEC 60068-2-1;
AS 60068.2.1 (2003); AS 60068-2-1;
EN 60068-2-1 (2007); EN 60068-2-1;
IEC 60068-2-2 (2007); IEC 60068-2-2;
EN 60068-2-2 (2007); EN 60068-2-2;
AS 60068.2.2 (2003); AS 60068.2.2;
IEC 60068-2-14 (2009) - Part N;
IEC 60068-2-14 - Part N;
EN 60068-2-14 (2009) - Part N;
EN 60068-2-14 - Part N;
AS 60068-2-14 (2003) - Part N;
AS 60068-2-14 - Part N;
IEC 60068-2-30 (2005); IEC 60068-2-30;
EN 60068-2-30 (2005); EN 60068-2-30;
AS 60068.2.30 (2003); AS 60068-2.30;
MIL-STD-810G
Methods 501.5, 502.5, 503.5, and 507.5;
RTCA DO-160G:
Section 4: Temperature & Altitude
(excluding section 4.6),
Section 5: Temperature Variation Testing,
Section 6: Humidity Testing;
ISO 16750-4 (excluding ice water shock test and
gas corrosion test)

Test Technology:

Vibration / Shock:
1,000 kgf Sine (PK)
1,000 kgf Random (RMS)
2,000 kgf Shock (PK)
(5 to 2,800) Hz
(1 to 2,800) Hz in Manual Mode
Max. Velocity: 1.7 m/sec
Max. Acceleration: up to 90 g (bare table)
Max Rated Displacement:
51mm P-P standard

Ingress Protection

UV

Flammability

Salt

Impact

Climatic Environmental Test

Caravan and light trailer towing components –
Electrical connectors

Product Safety

Audio/video, Information &
communication technology equipment
(*see Table #1 exclusion list below)

Test Method(s)¹:

IEC 61373; EN 61373;
IEC 60068-2-6; EN 60068-2-6; AS 60068-2-6;
IEC 60068-2-27; EN 60068-2-27; AS 60068-2-27;
MIL-STD-810G;
RTCA DO-160G;
ISO 16750-3

AS 60529; IEC 60529; EN 60529;
MIL-STD-810G Method 510.5;
NEMA 250; ISO 20653

EN ISO 4892-2:2016; EN ISO 4892-3:2016;
AS 60068.2.5 Environmental Testing - Tests –
Test Sa- Simulated Solar Radiation at Ground Level;
MIL-STD-810G – Method 505.6
(Solar Radiation Sunshine);
AECTP-300-3 Method 305

AS/NZS 60695.2.10; IEC 60695-2-10; EN 60695-2-10;
AS/NZS 60695.2.11; IEC 60695-2-11; EN 60695-2-11;
AS/NZS 60695.2.12; IEC 60695-2-12; EN 60695-2-12;
AS/NZS 60695.2.13; IEC 60695-2-13; EN 60695-2-13;
AS/NZS 60695.10.2; IEC 60695-10-2; EN 60695-10-2;
AS/NZS 60695.11.5; IEC 60695-11-5; EN 60695-11-5

MIL-STD-810G, Method 509.5 - Salt Fog;
AS 60068.2.11; AS 60068.2.52;
EN 60068.2.11; EN 60068.2.52;
IEC 60068.2.11; IEC 60068.2.52;
RTCA DO-160G, Section 14 - Salt Fog;
ISO 9227; AS 2331.3.1; ASTM B117

AS 60068.2.75; IEC 60068.2.75; EN 60068.2.75

AECTP-300

AS 4177.5

AS/NZS 62368.1; IEC 62368-1; EN 62368-1

Test Technology:

Product Safety (cont.)

Household and similar electrical
appliance – Safety
(*see Table #2 exclusion list below)

Test Method(s)¹:

AS/NZS 60335.1; IEC 60335-1; EN 60335-1;
AS/NZS 60335.2.2 (AS/NZS National variations only);
AS/NZS 60335.2.3 (AS/NZS National variations only);
AS/NZS 60335.2.4 (AS/NZS National variations only);
AS/NZS 60335.2.5 (AS/NZS National variations only);
AS/NZS 60335.2.6 (AS/NZS National variations only);
AS/NZS 60335.2.7 (AS/NZS National variations only);
AS/NZS 60335.2.8, IEC 60335-2-8, EN 60335-2-8;
AS/NZS 60335.2.9; IEC 60335-2-9; EN 60335-2-9;
AS/NZS 60335.2.9 (AS/NZS National variations only);
AS/NZS 60335.2.10 (AS/NZS National variations only);
AS/NZS 60335.2.11 (AS/NZS National variations only);
AS/NZS 60335.2.12 (AS/NZS National variations only);
AS/NZS 60335.2.13 IEC 60335-2-13, EN 60335-2-13;
AS/NZS 60335.2.14 (AS/NZS National variations only);
AS/NZS 60335.2.15; IEC 60335-2-15; EN 60335-2-15;
AS/NZS 60335.2.16 (AS/NZS National variations only);
AS/NZS 60335.2.17 (AS/NZS National variations only);
AS/NZS 60335.2.21; IEC 60335-2-21; EN 60335-2-21;
AS/NZS 60335.2.23 (AS/NZS National variations only);
AS/NZS 60335.2.24 (AS/NZS National variations only);
AS/NZS 60335.2.25 (AS/NZS National variations only);
AS/NZS 60335.2.26, IEC 60335-2-26, EN 60335-2-26;
AS/NZS 60335.2.27 (AS/NZS National variations only);
AS/NZS 60335.2.28, IEC 60335-2-28, EN 60335-2-28;
AS/NZS 60335.2.29, IEC 60335-2-29, EN 60335-2-29;
AS/NZS 60335.2.30; IEC 60335-2-30; EN 60335-2-30;
AS/NZS 60335.2.31; IEC 60335-2-31; EN 60335-2-31;
AS/NZS 60335.2.32; IEC 60335-2-32; EN 60335-2-32;
AS/NZS 60335.2.34 (AS/NZS National variations only);
AS/NZS 60335.2.35 (AS/NZS National variations only);
AS/NZS 60335.2.40 (AS/NZS National variations only);
AS/NZS 60335.2.41; IEC 60335-2-41; EN 60335-2-41;
AS/NZS 60335.2.43; IEC 60335-2-43; EN 60335-2-43;
AS/NZS 60335.2.44 (AS/NZS National variations only);
AS/NZS 60335.2.45; IEC 60335-2-45; EN 60335-2-45;
AS/NZS 60335.2.51; IEC 60335-2-51; EN 60335-2-51;
AS/NZS 60335.2.52 (AS/NZS National variations only);
AS/NZS 60335.2.53 (AS/NZS National variations only);
AS/NZS 60335.2.54 (AS/NZS National variations only);
AS/NZS 60335.2.55 (AS/NZS National variations only);
AS/NZS 60335.2.56 (AS/NZS National variations only);
AS/NZS 60335.2.59 (AS/NZS National variations only);
AS/NZS 60335.2.60; IEC 60335-2-60; EN 60335-2-60;
AS/NZS 60335.2.61 (AS/NZS National variations only);
AS/NZS 60335.2.65; IEC 60335-2-65; EN 60335-2-65;
AS/NZS 60335.2.66 (AS/NZS National variations only);
AS/NZS 60335.2.67 (AS/NZS National variations only);
AS/NZS 60335.2.68 (AS/NZS National variations only);
AS/NZS 60335.2.69 (AS/NZS National variations only)



Test Technology:

Product Safety (cont.)

Household and similar electrical
appliance – Safety (cont.)
(*see Table #2 exclusion list below)

Test Method(s)¹:

AS/NZS 60335.2.71 (AS/NZS National variations only);
AS/NZS 60335.2.72 (AS/NZS National variations only);
AS/NZS 60335.2.73; IEC 60335-2-73; EN 60335-2-73;
AS/NZS 60335.2.74; IEC 60335-2-74; EN 60335-2-74;
AS/NZS 60335.2.75 (AS/NZS National variations only);
AS/NZS 60335.2.77 (AS/NZS National variations only);
AS/NZS 60335.2.78 (AS/NZS National variations only);
AS/NZS 60335.2.79 (AS/NZS National variations only);
AS/NZS 60335.2.80; IEC 60335-2-80; EN 60335-2-80;
AS/NZS 60335.2.81 (AS/NZS National variations only);
AS/NZS 60335.2.82; IEC 60335-2-82; EN 60335-2-82;
AS/NZS 60335.2.83 (AS/NZS National variations only);
AS/NZS 60335.2.84 (AS/NZS National variations only);
AS/NZS 60335.2.85; IEC 60335-2-85; EN 60335-2-85;
AS/NZS 60335.2.86 (AS/NZS National variations only);
AS/NZS 60335.2.89 (AS/NZS National variations only);
AS/NZS 60335.2.90 (AS/NZS National variations only);
AS/NZS 60335.2.95 (AS/NZS National variations only);
AS/NZS 60335.2.96 (AS/NZS National variations only);
AS/NZS 60335.2.97 (AS/NZS National variations only);
AS/NZS 60335.2.98; IEC 60335-2-98; EN 60335-2-98;
AS/NZS 60335.2.100; IEC 60335-2-100; EN 60335-2-100;
AS/NZS 60335.2.101; IEC 60335-2-101; EN 60335-2-101;
AS/NZS 60335.2.102 (AS/NZS National variations only);
AS/NZS 60335.2.103 (AS/NZS National variations only);
AS/NZS 60335.2.105 (AS/NZS National variations only);
AS/NZS 60335.2.106 (AS/NZS National variations only);
AS/NZS 60335.2.108 (AS/NZS National variations only);
AS/NZS 60335.2.109 (AS/NZS National variations only);
AS/NZS 60335.2.113 (AS/NZS National variations only)

Safety of power transformers, power supplies,
reactors and similar products
(*see Table #3 exclusion list below)

AS/NZS 61558.1; IEC 61558-1; EN 61558-1;
AS/NZS 61558.2.4; IEC 61558-2-4; EN 61558-2-4;
AS/NZS 61558.2.5; IEC 61558-2-5; EN 61558-2-5;
AS/NZS 61558.2.6; IEC 61558-2-6; EN 61558-2-6;
AS/NZS 61558.2.8; IEC 61558-2-8; EN 61558-2-8;
AS/NZS 61558.2.16; IEC 61558-2-16; EN 61558-2-16

Safety requirements for electrical equipment
for measurement, control, and laboratory use
(*see Table #4 exclusion list below)

AS 61010.1; IEC 61010-1; EN 61010-1;
IEC 61010-2-010; EN 61010-2-010;
IEC 61010-2-020; EN 61010-2-020;
IEC 61010-2-040; EN 61010-2-040;
IEC 61010-2-051; EN 61010-2-051;
IEC 61010-2-081; EN 61010-2-081;
IEC 61010-2-101; EN 61010-2-101;
IEC 61010-2-201; EN 61010-2-201;
IEC 61010-2-202; EN 61010-2-202

Medical Electrical Equipment
(*see Table #5 exclusion list below)

AS/NZS 60601.1; IEC 60601-1; EN 60601-1

Test Technology:

Test Method(s)¹:

Luminaire products

AS/NZS 60598.1; IEC 60598-1; EN 60598-1;
AS/NZS 60598.2.1; IEC 60598-2-1; EN 60598-2-1;
AS/NZS 60598.2.2; IEC 60598-2-2; EN 60598-2-2;
AS/NZS 60598.2.3; IEC 60598-2-3; EN 60598-2-3;
AS/NZS 60598.2.4; IEC 60598-2-4; EN 60598-2-4;
AS/NZS 60598.2.5; IEC 60598-2-5; EN 60598-2-5;
AS/NZS 60598.2.8; IEC 60598-2-8; EN 60598-2-8;
AS/NZS 60598.2.10; IEC 60598-2-10; EN 60598-2-10;
AS/NZS 60598.2.20; IEC 60598-2-20; EN 60598-2-20

Lamp Control Gears

AS/NZS 61347.1; IEC 61347-1; EN 61347-1;
AS/NZS 61347.2.2; IEC 61347-2-2; EN 61347-2-2;
AS/NZS 61347.2.3; IEC 61347-2-3; EN 61347-2-3;
AS/NZS 61347.2.11; IEC 61347-2-11; EN 61347-2-11;
AS/NZS 61347.2.13; IEC 61347-2-13; EN 61347-2-13

Products Containing Button/Coin Cell
Batteries

IEC 62115 (13.4.1, 13.4.2 & 13.4.6 clauses only);
AS/NZS 62115 (13.4.1, 13.4.2 & 13.4.6 clauses only);
UL 4200A (section 5 & 6 only);
ISO 8124-1 (clause 5.24 only);
AS/NZS ISO 8124-1 (clause 5.24 only)

Hand-held motor-operated electric tools

AS/NZS 60745.1 (AS/NZS National variations only);
AS/NZS 60745.2.1 (AS/NZS National variations only);
AS/NZS 60745.2.3 (AS/NZS National variations only);
AS/NZS 60745.2.4 (AS/NZS National variations only);
AS/NZS 60745.2.8 (AS/NZS National variations only);
AS/NZS 60745.2.12 (AS/NZS National variations only);
AS/NZS 60745.2.16 (AS/NZS National variations only);
AS/NZS 60745.2.18 (AS/NZS National variations only);
AS/NZS 60745.2.19 (AS/NZS National variations only);
AS/NZS 60745.2.20 (AS/NZS National variations only);
AS/NZS 60745.2.21 (AS/NZS National variations only);
AS/NZS 60745.2.22 (AS/NZS National variations only);
AS/NZS 60745.2.23 (AS/NZS National variations only)

Electric motor-operated hand-held tools,
transportable tools and lawn and garden
machinery

AS/NZS 62841.1 (AS/NZS National variations only);
AS/NZS 62841.2.1 (AS/NZS National variations only);
AS/NZS 62841.2.2 (AS/NZS National variations only);
AS/NZS 62841.2.3 (AS/NZS National variations only);
AS/NZS 62841.2.4 (AS/NZS National variations only);
AS/NZS 62841.2.5 (AS/NZS National variations only);
AS/NZS 62841.2.6 (AS/NZS National variations only);
AS/NZS 62841.2.8 (AS/NZS National variations only);
AS/NZS 62841.2.9 (AS/NZS National variations only);
AS/NZS 62841.2.10 (AS/NZS National variations only);
AS/NZS 62841.2.11 (AS/NZS National variations only);
AS/NZS 62841.2.14 (AS/NZS National variations only);
AS/NZS 62841.2.17 (AS/NZS National variations only);
AS/NZS 62841.2.21 (AS/NZS National variations only)

Test Technology:

Test Method(s)¹:

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery (cont.)

AS/NZS 62841.3.1 (AS/NZS National variations only);
AS/NZS 62841.3.4 (AS/NZS National variations only);
AS/NZS 62841.3.6 (AS/NZS National variations only);
AS/NZS 62841.3.7 (AS/NZS National variations only);
AS/NZS 62841.3.9 (AS/NZS National variations only);
AS/NZS 62841.3.10 (AS/NZS National variations only);
AS/NZS 62841.3.12 (AS/NZS National variations only);
AS/NZS 62841.3.13 (AS/NZS National variations only);
AS/NZS 62841.3.14 (AS/NZS National variations only);
AS/NZS 62841.4.1 (AS/NZS National variations only);
AS/NZS 62841.4.2 (AS/NZS National variations only);
AS/NZS 62841.4.3 (AS/NZS National variations only);
AS/NZS 62841.4.4 (AS/NZS National variations only);
AS/NZS 62841.4.5 (AS/NZS National variations only)

Proof and Comparative Tracking Index

AS/NZS 60112; IEC 60112; EN 60112

General requirements for electrical equipment
(*see Table #6 exclusion list below)

AS/NZS 3100;
AS/NZS 3105;
AS/NZS 3112;
AS/NZS 3120;
AS/NZS 3121;
AS/NZS 3122;
AS/NZS 3133;
AS/NZS 3136;
AS/NZS 3190;
AS/NZS 3199

Electric Vehicle Conductive Charging Systems
(*see Table #7 exclusion list below)

AS/NZS 61851.1; IEC 61851-1; EN 61851-1;
(Mode 1, Mode 2 and Mode 3 Only)
AS/NZS 62752; IEC 62752; EN 62752

Performance of external power suppliers

AS/NZS 4665.1:2005+A1:2009;
AS/NZS 4665.2:2005+A1:2009

Exclusion Tables

*Table #1: Clauses excluded for electrical product safety testing

Clause	Test
5.4.1.10.2	Vicat test
5.4.12	Insulating liquid
8.5.5	High pressure lamps
10	Radiations
G.2.3	Relay controlling connectors supplying power to other equipment
G.5.3.4	Transformers using fully insulated winding wire (FIW)
G.9	Integrated circuit (IC) current limiters
G.15	Pressurized liquid filled components
Annex J	Insulated winding wires for use without interleaved insulation
Annex M.7	Risk of explosion from lead acid and NiCd batteries
Annex M.8.2	Internal protection from external spark ignition source – spark test
Annex R	Limited short-circuit test
Annex U	Mechanical strength of CRTs and protection against the effects of implosion



Exclusion Tables

*Table #2: Clauses excluded for electrical product safety testing

Clause	Test
15	Accredited only for Humidity test (External dimensions of appliance less than 100×100×100cm)
22.16	Automatic cord reel test
22.32	Rubber aging test, ceramic material strength test
22.46 and Annex R	Software evaluation
22.48	Prevent back siphonage test of IEC 61770
27.4	Electroplated coating thickness test in ISO 2178 or ISO 1463
Annex J	Coated printed circuit boards

Exclusion Tables

*Table #3: Clauses excluded for electrical product safety testing

Clause	Test
17	Accredited only for: Humidity test (External dimensions of appliance less than 100×100×100cm)
19.9	Oxygen bomb test
20	The aging test for rubber components

Exclusion Tables

*Table #4: Clauses excluded for electrical product safety testing

Clause	Test
10.5.3	Vicat test
12.2.1	Ionizing radiation
12.3	UV Radiation
12.4	Microwave Radiation above 40GHz
12.5.1	Sound pressure level
12.5.2	Ultrasonic pressure
12.6	Laser sources
13.2.3	Implosion of cathode ray tubes
Annex H	Qualification of conformal coating for protection against pollution

Exclusion Tables

*Table #5: Clauses excluded for electrical product safety testing

Clause	Test
8.8.4.2	Oxygen bomb test
9.5.2	Cathode ray tubes test
9.6.2.1	Audible acoustic energy test
9.6.3	Hand-transmitted vibration test
10.1	X-radiation
10.3	Microwave radiation above 40GHz
10.4	Lasers
11.2	Fire prevention – Spark ignition test
15.4.3.4	Primary Lithium batteries tests according to IEC 60086-4
15.4.3.4	Secondary Lithium batteries tests according to IEC 62133
Annex G	Protection against hazards of ignition of flammable anesthetic mixtures
Annex L	Insulated winding wires for use without interleaved insulation

Exclusion Tables

*Table #6: Clauses excluded for electrical product safety testing

Clause	Test
Clause 13.15 of AS 3133:2020	Test for switches intended for self-ballasted lamp loads
Clause 8.9 of AS/NZS 3190	Maximum break times and minimum non-actuating times
Clause 8.11 of AS/NZS 3190	Test for tripping time without pre-loading or prior energization
Clause 8.12 of AS/NZS 3190	Additional tests for d.c. pulses for RCDs
Clause 8.14 of AS/NZS 3190	Endurance test
Clause 8.15 of AS/NZS 3190	Short-time through-current withstand test
Clause 8.16 of AS/NZS 3190	Test under earth fault conditions

Exclusion Tables

*Table #7: Clauses excluded for electrical product safety testing

Clause	Test
6.2.4	Mode 4
6.3.2.4	Mode 4 using the combined charging system
Annex D	Control pilot function that provides LIN communication using the control pilot circuit

¹ The laboratory is only accredited for testing activities outlined within the test methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory’s accredited capabilities.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1 ²:

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	40000
<u>Intentional Radiators</u> Part 15C	ANSI C63.10:2013	40000
<u>U-NII without DFS Intentional Radiators</u> Part 15E	ANSI C63.10:2013	40000

² Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.





Accredited Laboratory

A2LA has accredited

COMPLIANCE ENGINEERING SERVICES

Keysborough, Victoria, Australia

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 29th day of November 2023.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2829.01
Valid to November 30, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.