

COMMITTEE: QR-012
Conformance Marking to Regulatory Requirements

DR 24047

DRAFT

AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

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DR 24047

Amendment 1 to AS/NZS 4417.2:2020

**Regulatory compliance mark for electrical and
electronic equipment**

**Part 2: Specific requirements for particular
regulatory applications**



**DRAFT FOR COMMENT
STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee QR-012- Conformance Marking to Regulatory Requirements,

**DRAFT
Australian/New Zealand Standard
Amendment 1 to AS/NZS 4417.2:2020
Regulatory compliance mark for electrical and electronic equipment
Part 2: Specific requirements for particular regulatory applications**

Comment on the proposal is invited from persons and organizations concerned with this subject.

Attention is drawn to the fact that this document is a draft amendment only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 4417.2:2020
Regulatory compliance mark
for electrical and electronic equipment –
Part 2: Specific requirements for particular regulatory applications

Revised text

The 2020 edition of AS/NZS 4417.2 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: This amendment applies to Committee representation, Preface, 1.1, 3.5, 3.6, B.2 and Table B.4.

Published on XXX

Approved for publication in Australia on behalf Standards Australia's Standards Development and Accreditation Committee on XXX

Approved for publication in New Zealand by the New Zealand Standards Approval Board on XXXX

The changes to B.2 and Table B.4 take effect 12 months from the date of publication of this amendment. The changes to other parts take effect from the date of publication of this amendment. During this period the Standard AS/NZS 4417.2:2020 without this amendment will also remain current. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

Committee representation

Delete

New South Wales Fair Trading

Replace

New Zealand Manufacturers and Exporters Association

By

The Manufacturers' Network (NZ Manufacturers' and Exporters' Association/MAKE NZ)

PREFACE

Add the following as a new third paragraph:

This Standard incorporates Amendment No. 1 (xxxx 20xx). The changes required by the amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected. Where an application date other than immediate is applicable to an amendment, the date of application (DOA) of the new text and where relevant the date of withdrawal (DOW) of the current text is indicated by the marginal bar against the part affected or by a footnote relating to the part affected.

1.1 REFERENCED DOCUMENTS

Under REGULATORY DOCUMENTS replace

RSM Radiocommunications (Compliance) Notice 2013 No.2

by

RSM Radiocommunications (Compliance) Notice 2020

3.5 RSM Electromagnetic Compatibility (EMC) Requirements

Replace 2013 No. 2 by 2020

3.6 RSM Radiocommunications Requirements

Replace 2013 No. 2 by 2020

Annex B

B.2 AUSTRALIAN EQUIPMENT REGULATORY DEFINITIONS

B.2.4 Arc Welding Machine

Replace the product definition and the class specification by the following:

An electrical device that —

- a) is for use in the electric arc welding process or as a plasma cutting system;
 - b) is for connection to single phase low voltage supply;
- and
- c) is transformer type or inverter type.

Class specification:

Inverter type: IEC 60974-1

Other: AS 60974.1; or IEC 60974-6

For all types

- Resistance to heat and fire requirements of AS/NZS 60335.1:2020 clause 30.2 for attended appliance;

Note: This is the same as IEC 60335-1 Ed 6 clause 30.2.

- Supply cord and plug or cord set is required and shall be rated suitable for continuous operation current.

B.2.73 Water heater

Add the following after item (g)

but does not include—

- (h) a heat pump water heater that does not incorporate a heating element.

Add the following new class specification

Heat pump water heater incorporating a heating element - AS/NZS 60335.2.40 and AS/NZS 60335.2.21

Add the following new definitions

B.2.aa Electric Vehicle Supply Equipment (EVSE)

An electrical device that—

(a) is portable or fixed in position;

(b) provides ac or dc supply to charge an electric vehicle; or can provide bi-directional energy transfer; and

(c) includes any in-cable control and protection devices (ICCPD); vehicle adaptor; or vehicle charging cable assembly;

but does not include—

(d) devices permanently connected to the electric vehicle. Class specification:

Class specification:

D.C. Electric Vehicle Charger (non-bi-directional):

- IEC 61851-1, and
- Resistance to heat and fire requirements of AS/NZS 60335.1:2020 clause 30.2 for unattended appliances

Note 1: This is the same as IEC 60335-1 Ed 6 clause 30.2.

D.C. Electric Vehicle Charger (bi-directional):

- IEC 61851-1, and

Note 2: this standard is still applied for requirements of the EVSE charging devices even though it does not cover bi-directional charging, as AS/NZS 4777.2 requirements address bi-directional issues

- AS/NZS 4777.2

with following exceptions:

IEC 62477-1 is applied for electric vehicle bidirectional charging (along with other requirements within AS/NZS 4777.2, and instructions to install in accordance with AS/NZS 4777.1) (IEC 62477-1 is applied in lieu of use of IEC 62109 that is stated in AS/NZS 4777.2:2020 clause 2.2).

Note 3: While IEC 62477-1 may state it does not apply to electrical equipment for electric vehicles it is still applied, the additional use of other AS/NZS 4777.2 requirements enables the use of IEC 62477-1 in this instance.

and

- Resistance to heat and fire requirements of AS/NZS 60335.1:2020 clause 30.2 for unattended appliances

Note 4: This is the same as IEC 60335-1 Ed 6 clause 30.2.

A.C. Electric Vehicle Charger (non-bi-directional):

- IEC 61851-1,

and

- Resistance to heat and fire requirements of AS/NZS 60335.1:2020 clause 30.2 for unattended appliances

Note 5: This is the same as IEC 60335-1 Ed 6 clause 30.2.

A.C. Electric Vehicle Charger (bi-directional):

- IEC 61851-1

Note 6: This standard is still applied for requirements of the EVSE charging devices even though it does not cover bi-directional charging, as AS/NZS 4777.2 requirements address bi-directional issues

and

- AS/NZS 4777.2

with following exceptions:

IEC 62477-1 is applied for electric vehicle bidirectional charging (along with other requirements within AS/NZS 4777.2, and instructions to install in accordance with AS/NZS 4777.1) (IEC 62477-1 is applied in lieu of use of IEC 62109 that is stated in AS/NZS 4777.2:2020 clause 2.2)

Note 7: While IEC 62477-1 may state it does not apply to electrical equipment for electric vehicles it is still applied, the additional use of other AS/NZS 4777.2 requirements enables the use of IEC 62477-1 in this instance.

and

- Resistance to heat and fire requirements of AS/NZS 60335.1:2020 clause 30.2 for unattended appliances

Note 8: This is the same as IEC 60335-1 Ed 6 clause 30.2.

Cable Assembly for Electric Vehicle Charging:

- IEC 61851-1

and

- Resistance to heat and fire requirements of AS/NZS 60335.1:2020 clause 30.2 for unattended appliances

Note 9: This is the same as IEC 60335-1 Ed 6 clause 30.2.

In-cable control and protection device:

IEC 62752

Vehicle Adaptor:

- IEC 61851-1

and

- Resistance to heat and fire requirements of AS/NZS 60335.1:2020 clause 30.2 for unattended appliances

Note 10: This is the same as IEC 60335-1 Ed 6 clause 30.2.

B.2.bb Battery Energy Storage System (BESS) equipment

An electrical appliance that—

- a) has internal battery system with one or more cells, modules or batteries;
- b) provides either AC or DC output;
- c) is fixed in position;
- d) has facilities for connection to an electrical installation;
- e) may include isolation and protection devices;
- f) may incorporate power conditioning equipment; and
- g) in addition to facilities for connection to an electrical installation may have output for supply to other equipment.

Class specification:

Lithium battery type: Best Practice Guide: Battery Storage Equipment - Electrical Safety Requirements.

Note 1: Best Practice Guide being transitioned to a Standards Australia Technical Specification with future proposal to create a specific equipment safety standard.

Other: AS/NZS 4777.2, AS/NZS 62477.1, IEC 62109-1 and IEC 62019-2

For all types:

Resistance to heat and fire requirements of AS/NZS 60335.1:2020 clause 30.2 for unattended appliances

Note 2: This is the same as IEC 60335-1 Ed 6 clause 30.2.

B.2.cc Cord Extension Set

An electrical device that —

- a) as its primary function, extends supply from a socket outlet;
- b) is portable; and
- c) is an assembly of only:
 - (i) one plug or socket outlet adaptor;
 - (ii) one sheathed flexible cord; and
 - (iii) one cord extension socket;

but does not include—

- d) a control or conditioning device; or
- e) an outlet device.

Class specification:

AS/NZS 3199

B.2.dd Heat pump water heater

An electrical appliance that—

- a) is for heating and storage of water for bathing, washing, or similar purposes;
- b) incorporates a motor compressor and refrigerant system;
- c) is unvented;
- d) has a storage capacity not less than 4.5 L nor more than 680 L; and
- e) is a component part of a heat pump hot water heater of a) to d) above.

But does not include —

- f) heat pump water heaters that incorporate a heating element.
- g) swimming pool/spa heat pumps.

Class specification:

AS/NZS 60335.2.40 and AS/NZS 60335.2.21

B.2.ee Portable Power Station

An electrical appliance that—

- a) has internal fixed or replaceable battery system with one or more cells, modules or batteries; or has facilities for placing batteries internal to the appliance;
- b) provides AC output;
- c) is portable or transportable;
- d) has output for supply to other equipment and/or has facilities for connection to supply an electrical installation;
- e) may include isolation and protection devices; and
- f) may incorporate power conditioning equipment;

Class specification:

AS/NZS 4763 (currently under amendment to include these devices)

Table B.4 – Equipment Risk Classifications

Add the following rows to the Table

B.2.aa	Electric Vehicle Supply Equipment (EVSE)	X	
B.2.bb	Battery Energy Storage System (BESS) equipment	X	
B.2.cc	Cord Extension Set		X
B.2.dd	Heat pump water heater		X
B.2.ee	Portable Power Station	X	