

SB & Labelling 16 – Information Sheet

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Version 1.0

Overview

CER Checklist item: SB & Labelling 16

Has a warning label been installed at the main switchboard and all intermediate distribution boards to indicate a multimode inverter with alternative supply has been installed and to follow the shutdown procedure for safe isolation, and is the text "Neutral and earth circuits may be live under fault conditions" included on this sign?

Standard reference: AS/NZS 4777.1:2024 Clause 6.8.

1. Introduction

SAA has analysed Clean Energy Regulator (CER) inspection data to identify the most common areas of non-compliance. Based on these insights, we have developed educational resources that highlight where issues typically arise and offer practical guidance to support installers in achieving compliance. This document should be read in conjunction with the relevant Standard(s).

SB & Labelling 16 shall comply with the requirements of AS/NZS 4777.1:2024 Clause 6.8.

This document outlines the key requirements for correct installation of equipment and includes examples of observed non-compliances to highlight common installation errors and help prevent their recurrence.

2. Key Requirements for compliant SB & Labelling 16

AS/NZS 4777.1:2024 Clause 6.8 Signs for multiple mode inverters

A warning sign shall be installed in the main switchboard, and all distribution switchboards electrically connected between the main switchboard and a distribution switchboard to which an IES is directly connected, warning that a multiple mode inverter with alternative supply or independent supply mode is connected, including the requirement to follow the shutdown procedure for safe isolation.

The warning sign shall contain the text, "WARNING", "MULTIPLE MODE INVERTER CONNECTED" and "NEUTRAL AND EARTH CIRCUITS MAY BE LIVE UNDER NORMAL AND FAULT CONDITIONS".

See Clause 6.3 for labelling requirements for main switches associated with multiple mode inverters.

Also see: AS/NZS 4777.1:2024 Clause 6.1 Requirements for signs and labels.

This clause contains requirements for the colour, size, durability of signs and labels.



Figure 1: This is the example label from AS/NZS 4777.1:2024 Appendix A.8.

3. Common non-compliances identified with the CER checklist item

- 3.1 An alternative supply has been connected from the battery system/inverter and the required label has not been placed in the main switchboard and/or any other switchboards energised by the battery system alternative supply

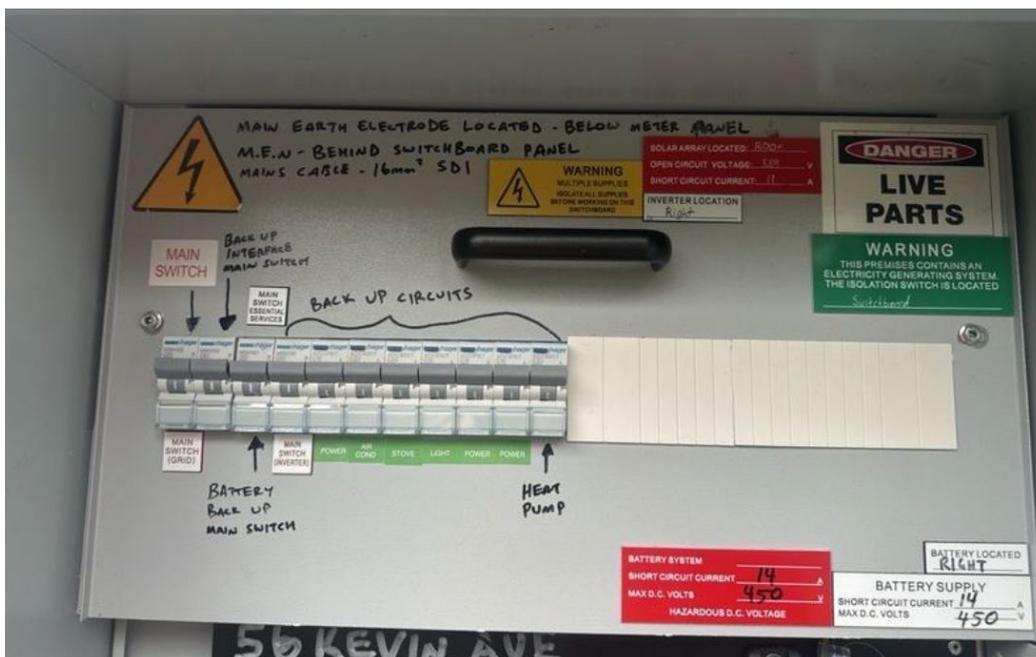


Figure 2: Non-compliant - no warning label has been installed at this MSB and there is alternative supply present.

- a) **Non-compliance:** The required label has not been applied at the MSB and/or any distribution board connected to the alternative supply, resulting in non-compliance and defects recorded in inspection reports. This warning label is critical—it identifies that a multimode inverter is installed, indicates that the shutdown procedure must be followed, and reminds workers that additional safety precautions are required. This includes ensuring all circuits, including neutral and earth, are safely isolated before performing any work on the equipment.

- b) **Best Practice:** These labels are typically included in labelling kits and must be applied at every installation where an alternative or independent supply is present. Ensure the label complies with the current requirements of AS/NZS 4777.1:2024, and remove or discard any obsolete labels from earlier versions of the Standard to maintain full compliance with current requirements.



Figure 3: Compliant - warning label has been installed at the MSB where an alternative supply is present.