Technical Guidance - New Energy Tech (NET) Labelling

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This document is intended to provide New Energy Tech Approved Sellers with technical guidance on how to comply with the requirements of the New Energy Tech Consumer Code (NETCC) relating to the sourcing and supplying of compliant installation labelling and labelling products.

Introduction

The NETCC sets good practice standards for providing residential and small business customers with new energy tech products, systems, and services. Approved Sellers have obligations to their customers regarding the quality of the technical information and service provided during the quotation, installation, and post installation stages of the delivery of the new energy tech.

This document outlines recommended actions that can be undertaken by the Approved Seller to fulfill the requirements of the NETCC for the provision of compliant labels and labelling for NET installations.

General

Throughout this document, the definitions in AS/NZS 3000, AS/NZS 4777.1, AS/NZS 5033 and AS/NZS 5139 apply.

Sourcing of Compliant Labels

To ensure you are installing compliant labels, always source and purchase labels and signs (designed to meet applicable standards) directly from major Australian electrical and solar suppliers. Kits typically include emergency, hazard, shutdown, and chemistry labels and be ordered online for quick delivery or local pickup. Some wholesalers even provide bespoke kits for specific manufacturer makes and models of new energy tech.

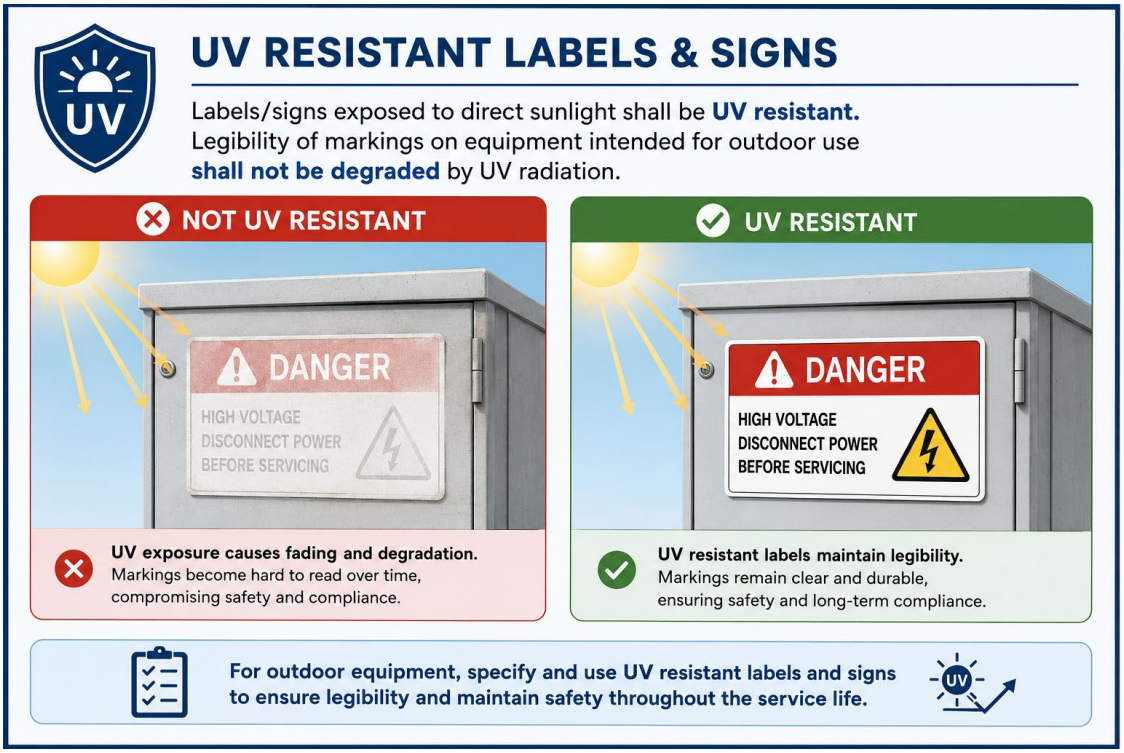
Technical Content

PV and battery labels are required to meet certain standards to be durable for the entire life of the system. The requirements listed below ensure that the labels used meet the compliance requirements for the specific system type. Please note – the following is an amalgamation of the requirements across the Standards. Exact wording may differ from one standard to another.

1. Common requirements for labels and signs – AS/NZS 5033, 5139 and 4777.1

All labels and signs for PV and battery systems shall be:

- Sufficiently durable and designed to have a lifetime ***greater than or equal to*** the service life of the system
- Constructed of ***appropriate*** and ***durable*** materials suitable for the location.
- Fixed in a ***durable*** manner appropriate for the location
- In ***English***
- Legible and the letter size to be appropriate for the location (see point 2)
- ***Indelible***
- ***Visible*** where applicable (e.g. some signs may be enclosed in a switchboard cabinet, but visible when an operator opens the switchboard to perform maintenance or emergency services)
- When installed ***exposed to direct sunlight*** conform to point 4.



2. Sizing

The lettering on each sign should be 5mm for uppercase and 4mm for lower case per metre of viewing distance unless otherwise specified. The following labels have specific sizing requirements:

- 'WARNING: HAZARDOUS d.c. VOLTAGE'. The text shall have a minimum letter sizing of 10mm – AS/NZS 5033 Cl 5.3.1.2
- 'WARNING: PV STRING DISCONNECTION POINT'. The text shall have a minimum letter sizing of 10mm – AS/NZS 5033 Cl 5.5.2.2
- Green 'PV' reflector sign must be at least 100mm in diameter – AS/NZS 5033 Cl 5.4
- 'Danger, Risk of Battery Explosion' sign must be at least 175mm x 175mm – AS/NZS 5139 Cl 7.2.

3. Colours

As a guide, the background colour and lettering colour should follow the principles listed below.

- Signs for general information should be **white and black** lettering
- Signs for essential safety of service personnel should be **yellow with black** lettering
- AS/NZS 5033 requires yellow and black labels applicable to the standard to also contain a **warning** symbol
- Signs for attention of emergency personnel should be **red with white** lettering
- Signs for personal protective equipment as per AS/NZS 5139 should be **blue and white** contrasting colour
- Special signs as per AS/NZS 5033 and AS/NZS 5139 may use other colours.

4. UV Resistance

Labels/signs exposed to direct sunlight shall be UV resistant.

Labels/signs shall conform to the following tests specified in IEC 60068-2-5:2018

Legibility of markings on equipment intended for outdoor use shall not be degraded by UV radiation.

EXCEPTION – This requirement does not apply to markings that are physically engraved, embossed or etched with durable markings.

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