The following signage should be used for battery storage systems:

- Sign indicating that there is a battery energy storage system onsite;
- Sign indicating that the switchboard has an alternative backup power system (if backup function is present);
- Danger of battery explosion from open flames, sparks and smoking, electrolyte burns etc (install only relevant signage);
- System shutdown procedures;
- Indicating which circuits are connected to the BESS;
- Warning sign that switchboard when operating in backup power mode that the neutral and earth circuits could still be live (if backup function is present);
- Battery cables should be labelled at a minimum of every 2 metres;
- If multiple distinct and serviceable battery systems are onsite, they should be distinctly labelled;
- Main switch of Inverters connected to battery source must read "main switch (inverter supply) – BESS" or otherwise indicate that it is an inverter supply of a battery source.

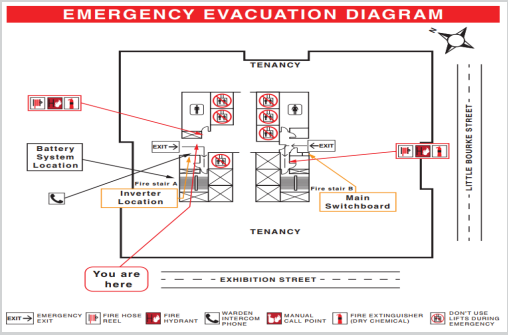
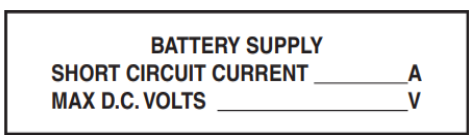
AUSTRALIAN STANDARDS

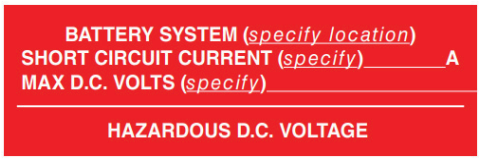
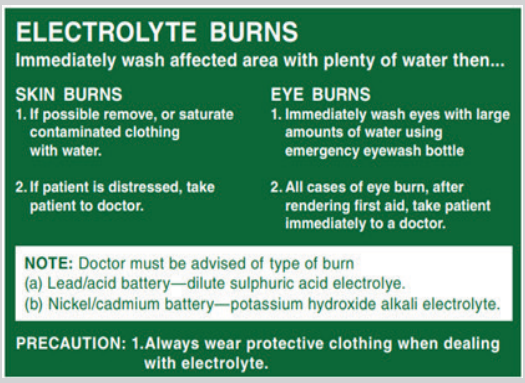
Signs from ***AS/NZS 5139:2019*** should be adhered to. In addition, the signage required for grid-connect inverter systems as specified in ***AS/NZS 5033:2014*** and ***AS/NZS 4777*** (series) should be adhered to.

REMEMBER

Typical examples of signs relating to the battery system or BESS can be found in ***AS/NZS 5139:2019*** Appendix B.

Table 10.2: *Example warning signs for a grid-connected PV system with battery storage.*

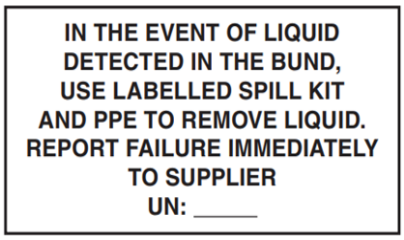
Main switchboard and main metering panel Example of battery location signage ***AS/NZS 5139:2019*** Clause 7.4	
Adjacent to the battery enclosure or on all doors to the battery room Typical sign for restricted access ***AS/NZS 5139:2019*** Clause 7.5	
Adjacent to the restricted access sign Typical sign for specific PPE requirements ***AS/NZS 5139:2019*** Clause 7.5	
Adjacent to the battery enclosure or on all doors to the battery room Typical sign for battery system voltage ***AS/NZS 5139:2019*** Clause 7.6	

Adjacent to the battery enclosure or on all doors to the battery room Typical sign for battery system with voltage greater than DVC-A ***AS/NZS 5139:2019*** Clause 7.6	
Adjacent to the battery enclosure or on all doors to the battery room Example sign for explosion hazard ***AS/NZS 5139:2019*** Clause 7.8	
Adjacent to the battery enclosure or on all doors to the battery room Example sign for toxic fume hazard ***AS/NZS 5139:2019*** Clause 7.9	
Adjacent to the battery enclosure or on all doors to the battery room Example sign for electrolyte burns ***AS/NZS 5139:2019*** Clause 7.10	
Adjacent to the battery enclosure or on all doors to the battery room Example sign for arc flash hazards ***AS/NZS 5139:2019*** Clause 7.11	

Adjacent to the battery system

Spill safety signage labelling

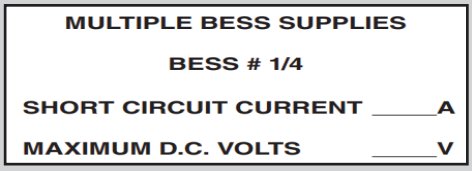
AS/NZS 5139:2019 Clause 7.19



Adjacent to each BESS

Example battery enclosure source label where there are multiple battery supplies. To be located on individual battery enclosures.

AS/NZS 5139:2019 Clause 7.6



Main switchboard and main metering panel

Example of energy storage label required for emergency workers, including the UN number.

Ensure the UN number of battery chemical type displayed is indicative of the battery chemistry installed. The table displays the UN number for common battery types.

AS/NZS 5139:2019 Clause 7.3

UN number	Battery chemical type
UN 3480	Lithium ion (including ion polymer)
UN 3090	Lithium metal batteries
UN 2794	Flooded lead acid battery
UN 2800	Valve regulated lead acid battery
UN 3496	Nickel-metal hydride battery
UN 2795	Nickel cadmium battery
UN 3292	Sodium ion batteries

Adjacent to PCE connected to the multiple battery systems

Typical warning sign for inverters connected to multiple battery systems

AS/NZS 5139:2019 Clause 7.12.3

Adjacent to each disconnector for DVC-B and DVC-C systems

Typical warning sign for isolation switches for battery systems above DVC-A

AS/NZS 5139:2019 Clause 7.12.4

Adjacent to the PCE and visible from the equipment to be operated in the event of a shutdown

Battery safe isolation procedure located at the battery system isolation point

AS/NZS 5139:2019 Clause 7.16

Isolation devices Battery isolator signage in a prominent location ***AS/NZS 5139:2019*** Clause 7.12.2 and 7.13.1	

Where an external RCD is required for an inverter, warning signs are required indicating the type of and rating of the RCD required.

The installer should ensure that appropriate DRM labelling is either already provided on the inverter by the manufacturer or is applied to the inverter as required. This label shall indicate the demand response modes of which the unit is capable. It shall indicate on the label which functions have been connected and enabled.

10.11 Safety Equipment

The system should include the installation of all relevant safety equipment in accordance with the relevant standards. Examples of safety equipment that could be included:

- Eye wash bottles;
- Bicarbonate of soda;
- Water storage;
- Goggles and gloves as well as any additional PPE specified such as a bib apron, boots, etc.

AUSTRALIAN STANDARDS

See ***AS/NZS 5139:2019*** and ***AS/NZS 4509.1:2009*** for safety equipment related to PV systems and battery storage.