

# Parallel Battery Cabinets with a Single Inverter

TN00004

## OVERVIEW

In Australia and New Zealand ASNZS5139:2019 has a requirement to have over-current protection between parallel batteries. This may not be required in other countries, however, could be considered best practice.

These requirements also include ingress protection requirements.

PowerPlus Energy offer the below to assist with systems design.

The underlying intent is to provide not only compliance, but the ability to use reasonably priced equipment, however, this may vary depending on your country, region, or supplier.

## SUGGESTED EQUIPMENT

<b>Inverter point of isolation</b>	Noark MCCB in an IP56 enclosure or similar
<b>Busbar</b>	Victron Lynx Power In Busbar or similar
<b>System over-current protection</b>	HRC blade fuses in a IP23 enclosure or MCCB in an IP56 enclosure

### Example

Battery Inverter

Inverter isolation MCCB

Busbar to combine all conductors. In suitable enclosure

System over-current protection HRC fuse in enclosure

Cross section of cables, over-current protection and isolation points specified by PCE manufacturer

