

Parallel Battery Cabinets in Multiphase Inverter Arrangements

TN00005

OVERVIEW

Traditional inverter/charger manufacturers all have a multiplication rule to increase cable, over-current protection, and points of isolation sizes when using multiple inverters in the one installation.

This is further discussed in AS/NZS5139:2019. These requirements also include ingress protection requirements.

PowerPlus Energy offer the below example 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

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

Example

