

How safe is a battery enclosure / casing / connected system?

2.9 Battery enclosures/casings and connected systems should be designed to remain in a safe state in event of exposure to seawater. Batteries and their connections should have an Ingress Protection (IP) rating which is appropriate to the risks associated with the: 2.9.3 risk of ingress.

Can a CCGX inverter/charger be connected to an MPPT solar charger?

There are no settings or special design considerations to be considered whether connected on the input and/or output of the inverter/charger. Feed-in of PV power via an MPPT Solar Charger can be enabled or disabled in the Energy Storage Systems menu on the CCGX.

What is the minimum IP rating for battery casing?

An IP rating as a minimum should be an IP44 rating, however, in many circumstances, a higher IP rating would be advised. 2.10 Exposed battery casing should be constructed of adequately durable, flame-resistant, moisture-resistant materials which are suitable for use in the marine environment.

What type of inverter/charger does the energy storage system use?

The Energy Storage System uses a MultiPlus or Quattro bidirectional inverter/charger as its main component. Note that ESS can only be installed on VE.Bus model Multis and Quattros which feature the 2nd generation microprocessor (26 or 27). All new VE.Bus Inverter/Chargers currently shipping have 2nd generation chips.

How do I keep my batteries charged if I use ESS?

Policy 2: Keep batteries charged: Use ESS, select the "Keep batteries charged" mode. And enable "Feed-in excess solar charger power" Policy 4: Prevent feeding energy to the grid: There are two options here; first - use ESS, but do not enable Solar charger excess feed-in and it will always be connected to the grid.

How does ESS work if a utility grid fails?

ESS can also be configured to keep the batteries fully charged. A utility grid failure is then the only time battery power is used as a backup. Once the grid is restored, the batteries will be recharged either from the grid or from solar panels when available.

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