

Application Note – Adding Lithium-Ion batteries to an existing battery bank.

Adding batteries to an existing battery bank is possible. Follow these steps.

- Batteries should be the same make and compatible model.
- The batteries should be at the same state of charge. It is best to have all the batteries at 100%. Please also ensure with a multimeter that all the batteries are within 2V of each other.
- Make sure the firmware is the same on all batteries. Please call your technical support advisor for assistance
- Ensure that the rating of the fuse is enough for your new battery bank.
- Ensure the battery cables are large enough for the extra current if applicable.
- Ensure that all settings on the inverter/charging device are set for the new larger battery bank. This can be found in the user manual of the inverter/charging device.
- Ensure the batteries are set up correctly. I.e. The DIP switch addresses, inter battery communication cables, etc. This information can be found in the installation manual of the battery.

Fault finding

Error codes on batteries - please consult the installation manual on the error. If it is one of the following:

- Master or slave communication failure – please consult the installation manual and ensure the DIP addresses are correct. Also ensure the inter battery communication cables are plugged in the correct ports.
- Ensure firmware on previous installed and newly installed batteries are the same – consult with your technical support advisor on how to check this.