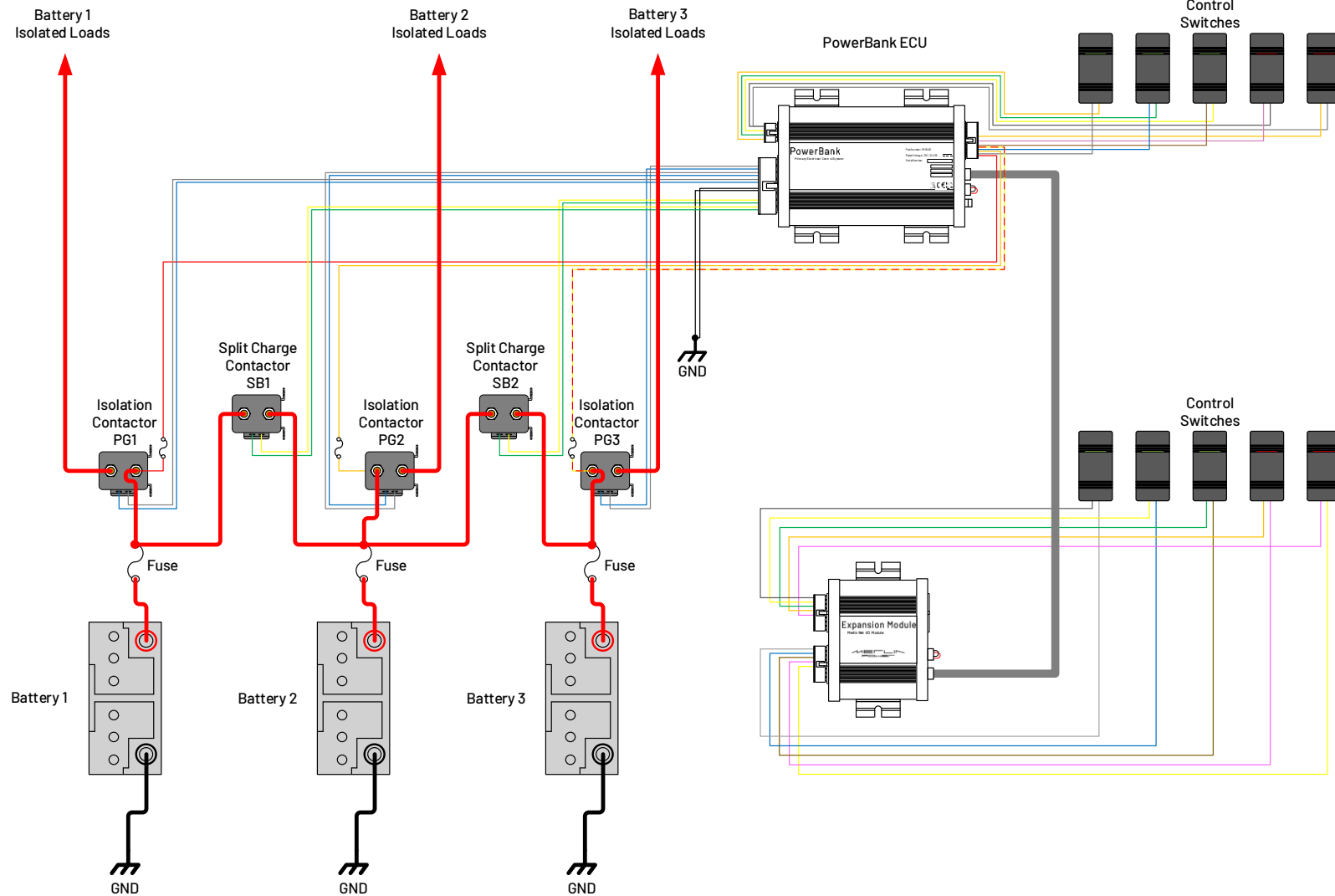


# EXPANSION MODULE QUICK START GUIDE



## Typical installation:



The above diagram shows a typical 3-Battery installation whereby an Expansion Module is connected to a Merlin PowerBank ECU. The Expansion Module is used in this instance to provide control switching and status feedback (via switch LEDs) in a second location, remote from the PowerBank ECU.

- The Expansion Module does not work as a standalone device and must be used with a Merlin PowerBank or PowerBank Combi ECU.
- The Installation and User Guide relative to the PowerBank ECU will therefore need to be read in conjunction with Expansion Module information.
- The Expansion Module is connected to the PowerBank ECU via a supplied 3.2 metre MerlinNet cable. Note: other lengths are available.
- Where the Expansion Module is connected and powered via the PowerBank ECU, the battery sense cables to the PowerBank ECU must be protected by small inline fuses. This should be rated at 5A and used in every installation.
- *Caution! Ensure always that the correct polarity is observed on the wiring. Serious damage to the PowerBank or Expansion Module ECU will occur if wires are shorted or connected the wrong way around.*
- *Caution & Warning! We recommend that appropriately rated fuses or circuit breakers are inserted between batteries and PowerBank Contactors to protect against short circuits. These should be rated based upon maximum vehicle alternator output (Amps) or a maximum current rating of 200A.*

*Fuses should be located as close as possible to the battery positive terminal of each battery bank. High current cables must have a current rating higher than that of the associated fuse.*

Thank you for your purchase of a Merlin Power Product! For more information including full user manuals containing wiring diagrams and installation instructions, please visit our website: [www.merlin-power.com](http://www.merlin-power.com)

