

Motorhome Wiring Notes

Solar Charging

- Solar Panels are wired in series so that the amps are kept the same throughout so that you also don't have to have very thick cable. This also helps when in low light situations you are still able to get a charge even if small.
- Double Pole Isolation Switch used so that you can turn the solar of completely if you are required to work on the system.
- Breaker placed before batteries as safety precaution so that you can isolate the batteries also protect them from a power surge from the solar.
- Taking the positive to the 1st battery and the negative to the last battery make sure you are using all the batteries when charging and when using them.

Wind Turbine Charging

- Double Pole Isolation Switch used so that you can turn the wind turbine of completely if you are required to work on the system.
- Breaker placed before batteries as safety precaution and also so that you can isolate the batteries and also protect them from a power surge from the turbine.

- Change over switch is there so that I can either take the charge from the wind turbine to either main leisure batteries, wheelchair batteries or even back into main vehicle batteries.

DC to DC Chargers

- First DC to DC charger will be linked directly onto the leisure batteries.
- Second DC to DC charger will be able to send the charge to either the Wheelchair Batteries or the main leisure batteries.

General Notes

The cable and fuse sizing will all depend on what amps are going to be running through them and these will be checked at a later date.
All 240 v appliances will run through an inverter that will just have an extension lead running to them from the electric cupboard so that they do not have to be placed right next to the inverter.
All items requiring electric:

24/12 volts

- x 2 Dinner Area Lighting
- 3 x bathroom Lights
- 1 x Electric Tooth-brush charger
- 6 x Fan's (small desktop style)
- 8 x USB Charging Points
- 8 x Storage lights

General Electrics

- 3 x Diesel Heater
- 2 x Entrance Stairwell Lighting
- 1 x Toilet Flusher
- Waste Water Level
- 240 v Electric in Storage boxed area underneath Motorhome

240 volts

- 2 x TV
- Air-Con
- 1 x Washing Machine
- 6 x 240 Volts Plugs Sockets
- Wi-Fi Router
- 1 x Microwave
- 1 x Dishwasher
- 1 x Fridge/Freezer

- Underfloor Heating
- 6 x Battery Monitors
- 2 x Electric Winches
- Satnav
- Battery display
- 8 x External Lighting
- Wheelchair Lift
- LGP gas tank level
- In-cab lighting
- 1 x Xbox
- 1 x satellite tv
- Water Tank Level
- In-cab fridge

