



Legend:

- MPPT: Victron Orion-Tr Smart 12/24-30A (720W) Isolated or if 15A enough?
- MPPT: Victron Orion-Tr Smart 12/12-20 (240W)
- Battery: LiFePo4 272Ah @ 3.2v
- Fuse: SPB12-125-C100A
- Circuit Breaker: DSSR20, DSSR30
- DC-DC Charger: Victron Orion-Tr DC/DC Conv. 24/12-20 (240W)
- Inverter/Charger: Victron MultiPlus-II 24/3000/70-32
- Shunt: Victron Shunt 300A 50mV
- DC Distribution Box: Victron DC Distribution Box
- Bus Bar [1] Negative: Victron Bus Bar
- Alternator: Side Drive

Notes:

- Calculation for current from PV: Watt/Voltage
- AWG = AWG Gauge (https://www.powerstream.com/Wire_Size.htm)
- A = Maximum power transmission over a line; and size of fuse or more likely DC-breaker (should at least be 1.25*(A))
- [A] = Actual maximum power transmission

Additional Notes:

- Grounding, e.g. solar panels does not work, because I am connected using a "scheidingstransformator"/isolation transformer, because of having an aluminium boat. You cannot run a ground wire!
- I have been taught to have all lines/cables of the same current, to be in the same colour. I resented that rule, and will not follow it!