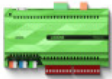











Electrical

The current idea for the electrical system is as follows:

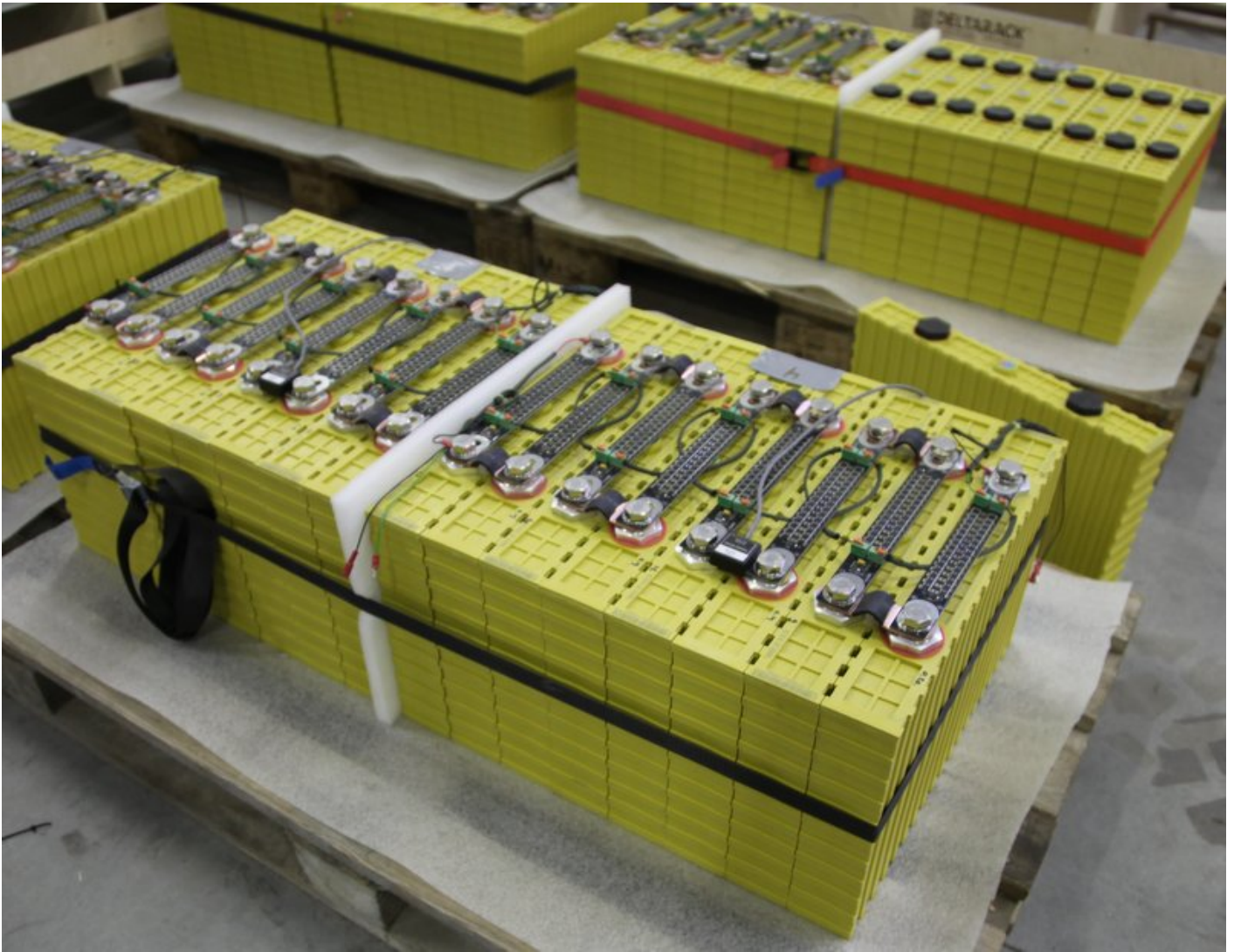
1. 5000W inverter, multiplus-II GX: <https://www.nkon.nl/victron-energy-multiplus-ii-5000-48v-110a-70-50-gx.html> ~ 1000
2. Gerbo display for mounting in an accessible place for control. (5"?)
<https://www.nkon.nl/victron-energy-gx-touch-50.html> ~ 200
3. Multiple (3x) solar panel inverters for 4 solar panels each (3x ~1600w) for a total of ~4800W Folding out from the roof in a 4-panel configuration of 3 layers total,
<https://www.groothandelsolar.com/zonnepanelen-kopen/jinko/jkm435n-54hl4r-bk-435wp-Glas-Glas-n-type-full-black> ~ 1000
4. 4x Tesla 6.4kWh module (24kWh effective) <https://evshop.eu/en/batteries/147-64kwh-tesla-module-6s86p.html> ~ 6200
5. All to be mounted under the seating area, as compact as possible (heat should not be much of a problem). If heat is a problem, we'll make sure ventilation holes and a thermostat controlled fan..
6. Can use 1x Victron MPPT solar modules for charging: <https://www.nkon.nl/victron-energy-scc125070221-smartsolar-mppt-250-70-tr-solar-laadregelaar.html> ~600
7. 4kw through-flow heater (single phase, 4.4kw): <https://electraboiler.nl/products/copy-of-vaillant-doorstroom-boiler-vermogen-3-kw> for shower/kitchen_sink ~300
8. Floor heating (electrical, 1800W) as a secondary system:
<https://www.vloerverwarmingstore.nl/p/verwarming-folie-aanvulset-10-m-1200-watt-aanvulset-2> ~500
9. Ikea 2-hob induction cooker. ~250
10. The home-automation system uses Luxone
<https://www.blissmobil.com/2020/08/18/loxone-smart-home-system/>

	Artikel Nr.: 100335 Miniserver ● In stock, levering tussen 2-6 dagen	€ 655,61	1 items	€ 655,61 <i>Excl. BTW</i>	
	Artikel Nr.: 100015 EnOcean Extension ● In stock, levering tussen 2-6 dagen	€ 328,04	1 items	€ 328,04 <i>Excl. BTW</i>	
	Artikel Nr.: 000200 SMA Mini-Antenne 868MHz ● Low stock	€ 7,17	1 items	€ 7,17 <i>Excl. BTW</i>	
	Artikel Nr.: 100029 Dimmer Extension ● In stock, levering tussen 2-6 dagen	€ 461,02	1 items	€ 461,02 <i>Excl. BTW</i>	
	Artikel Nr.: 100038 Relay Extension ● In stock, levering tussen 2-6 dagen	€ 337,57	1 items	€ 337,57 <i>Excl. BTW</i>	

That's ~1800

- Need a way to make sure I don't switch on multiple systems of high load (1200+4400>5000). But the problem is, it could be switched on by turning the tap on.. :-/ Make a switch for 'hot water' that does not switch on the rest of the things when hot water is on. So you have to flip the switch for hot water first (shower and kitchen) that then switches off the heating and other high-wattage sources.

Blissmobile uses https://emusbms.com/product-category/cell_modules/ (from this picture):



Revision #5

Created 3 August 2024 16:32:30 by Robert Campbell

Updated 8 August 2024 15:37:34 by Robert Campbell