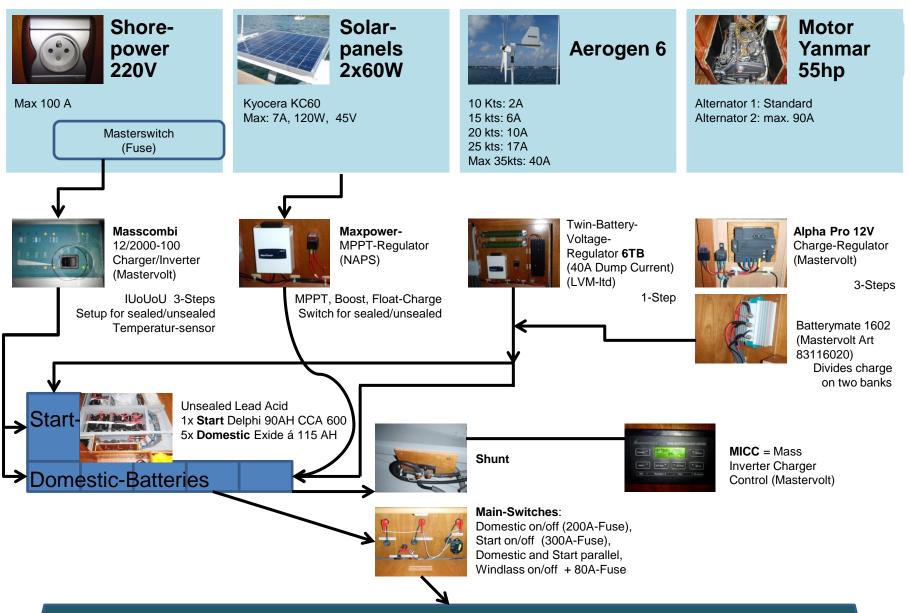
Powermanagement – Taitonga: Overview



Powermanagement – Taitonga: Motor as Charger





AlphaPro 12V-Charge-Regulator (Mastervolt): (Powerlines left to right)

- 1. Black thin = Temperature-indicator to battery-bank
- 2. Blue thin (going in white bundle) = going to Zündspule
- 3. Red thin (going in black bundle) = going to second alternator
- 4. Brown thin (gong in white bundle) = going to first alternator
- 5. Black thin (going in black bundle) = going to second alternator

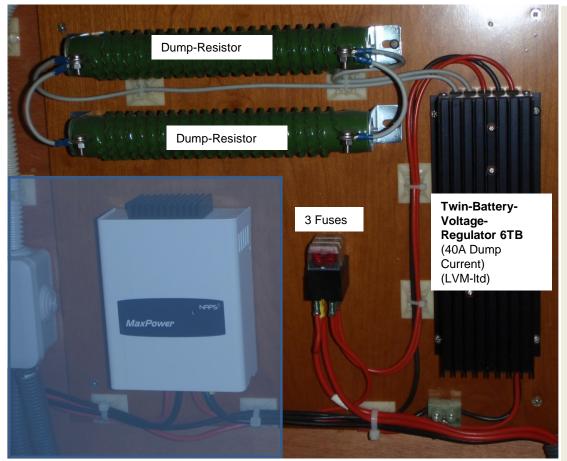
Batterymate 1602 (Mastervolt): (Powerlines from down to top)

- 1. Red thick = plus in: to first Alternator
- 2. Red thin = without connection
- Red thick = plus out B: one to second alternator, one to batterybank
- 4. Red thick = plus out A: to battery-bank
- 5. Black thin = ground to Zündspule

(One cable black from Zündspule to second alternator)

To be found above the motor

Powermanagement – Taitonga: Aerogen 6 - Charger



14,2V@20degC, Max-Voltage-adjustable, Voltage-Monitoring / PWM-circuit, 40A Dump-Resistors, 1 Power Mosfet, 2 Schottky Blocking Diodes, battery with lowest terminal will be charged first, No-temperatur compensation, 2,5mm² Lines

Twin-Battery-Voltage-Regulator 6TB (LVM-ltd)

To be found in the starboardcabin

Powerlines:

Lower Part - from left to right

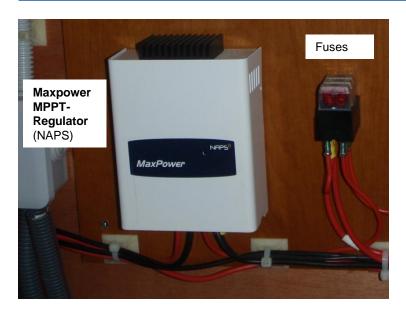
- 1. From Aerogen
- 2. From Aerogen

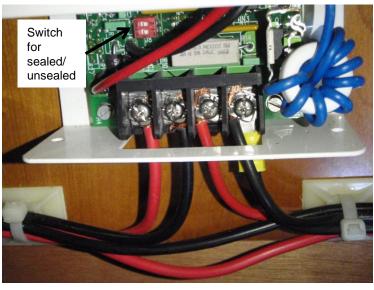
Upper Part - from left to right

- 1. Grey to dump-resitor
- 2. Grey from dump-resitor
- 3. Red to domestic-battery (Fuse in the middle)
- Black to Maxpower Out (4=> to Domestic?)
- 5. Red to startbattery (Fuse in the back)

Do not disconnect batteries while Aerogen is in full use

Powermanagement – Taitonga: Solarpanel - Charger





Maxpower MPPT-Regulator (NAPS)

To be found in the starboardcabin

MPPT-, Boost-, Floatcharging, 90-94% eff. Max. 7A, 45V, 120W Input, max 10A Output, Battery-Selection, 24mV-temperatur compensation, Internal blocking diode, 4mm² Lines, 6mV/h consumption, Green continous LED = ok

Powerlines from left to right

- 1. Red from solarpanel
- 2. Black from solarpanel
- 3. Red to domestic-battery
- 4. Black to domestic-battery? (combined with the black out of the Aerogen-TB6-Charger)

(Do not disconnect batteries while MaxPower is connected to loads)

Powermanagement – Taitonga: Start-Battery



Delphi Freedom Marine 12V, 90Ah, 600 CCA

To be found in the **portsidecabin**

Powerlines from left to right:

- 1. Black thick going to the motor?
- 2. Black thin going to Aerogen 6TB
- 3. Red thick through fuse 200Amp to Starter-MainSwitch

Powermanagement – Taitonga: Domestic-Batteries



Delphi Freedom Marine, Bosch and Noname 12V, 5 x 90Ah => 450Ah

To be found in the **portsidecabin**

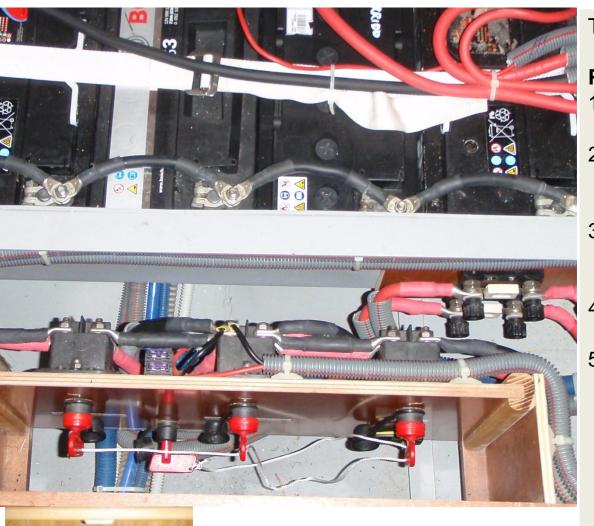
Powerlines from left to right

- Red thick through fuse 300 Amp to Mainswitch (Combined Start and Domestic)
- 2. Red thick to plus out B on Batterymate
- Black thin to Shunt
- Red-Black to Inverter ?
- Red (Blue /// Marks on grey tube) to MaxPower(Solar) and TB6 (Aerogen)
- 6. Black thin temperatur-indicator
- 7. Black thin temperatur-indicator

Load on navigation: Navstation, Autopilot, Fridge, Nav-Laptop, Lights, VHF~(0A+0A+12hx5A+24hx3A+12hx0,5A+24hx0,5A = 150)

Load on anchor: Fridge, Nav-Laptop, Lights $\sim (12hx5A+6hx3A+4hx0,5A=80A)$

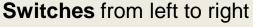
Powermanagement - Taitonga: Mainswitches



To be found in the portsidecabin

Powerlines from left to right

- Red: connection from Starter-Battery-Switch to Starter-Battery
- Red: connection from Domestic-Start-Combination-Switch to Domestic-Battery
- 3. Red: connection from domesticstart-combination-switch to domestic-switch
- 4. Black: connection from Domestic-Battery-Switch to Windlass-Switch
- 5. Black: connection from Windlass to fuse 80 Amp.



Upper row: Starter-Battery-Switch / Domestic-Battery-Switch / Windlass-Switch

Lower row: Start-and-Domestic-Batteries-In-Parallel-Switch / 80A-Fuse- for-

Windlass

Powermanagement – Taitonga: MICC



Mass Inverter Charger Controll

To be found in the **right of the Navigationseat**

Controlles the Inverter and the Charger Shows Voltage and outtaken Ampere or Batterystatus

Connectet to the Shunt

Powermanagement – Taitonga – Battery-Pulser

Noch zu kaufen 1. xxx