Salona S41 - Electric

Oceanvolt clean electric propulsion system
System content and features

Oceanvolt SD 10 kW motor system  (optional Servoprop system)

- Permanent magnet electric motors produced in Finland
- Maximum output is 10 kW (continuous output 8 kW)
- The SD drive leg and motor cover are made from recycled aluminium
- The motor is cooled through the drive unit by the sea water
- Motor controller is cooled with a closed-circuit system by a through hull mounted Oceanvolt patented cooling fin (needed only when 10kW or more motor power)
- A 3-Blade folding Gori propeller is installed for best performance and regeneration

Cleantron 48V NMC lithium batteries with integrated BMS

- 1,9 kWh / module
- The weight per module is 10,9 kg
- The vessel is fitted with 12 modules (optional additional 4 modules)
- The battery pack has a combined capacity of 22,8 kWh
- In operational speed the batteries have capacity for approximately 6 hours
Oceanvolt display and control lever

- From the displays the user can see the RPM, used power, the state of charge and the estimated battery capacity in terms of hours.
- The flush mounted control lever is specially designed for sailing boats and has an integrated, led light system status indication.

Oceanvolt configured Shore power and charging by Victron

- The vessel has a Multi charger (230 V/ 48V/ 35-50A) / Inverter (230 V/ 3000 W). The charging time for the 12 battery modules is 8 hours (if 16 modules = 10 hours).
- The vessels solar panels charge the main battery bank at daylight and the house battery is kept topped by an DC/ DC charger/ converter.
- Oceanvolt unique hydro generating feature is charging by just pressing the knob on the display while sailing in speeds more than 6 knots (1000 W in 10 knots).

Remote Access and service

- The vessel has an Oceanvolt system monitor, which shows all the components and the effect of the solar panels in real time.
- The information on the system monitor can be shared live online anywhere around the world to a computer, tablet or to a smartphone.
- With the same connection it is possible to service and to repair the system remotely from the Oceanvolt HQ.
- The Oceanvolt propulsion systems need minimal maintenance. The main parts needed are anodes and the points to be checked are lubrication and cooling (when applicable).

Please read the user manuals for detailed information.
3.1 COMPONENTS OF THE SYSTEM

The complete scope of your Oceanvolt propulsion system normally includes the following components:

1. Propulsion battery bank
2. Battery management system or connection box (depending on battery pack)
3. Oceanvolt display
4. Control lever
5. Bus bar
6. Shore power connection
7. Shore power charger/inverter
8. Main switch
9. Motor controller
10. Cooling fin
11. Cooling pump
12. Servoprop electronics
13. Signal distributor
14. Servoprop saildrive and electric motor
15. DC-DC converter (optional)
16. House battery 12/24Vdc (optional)