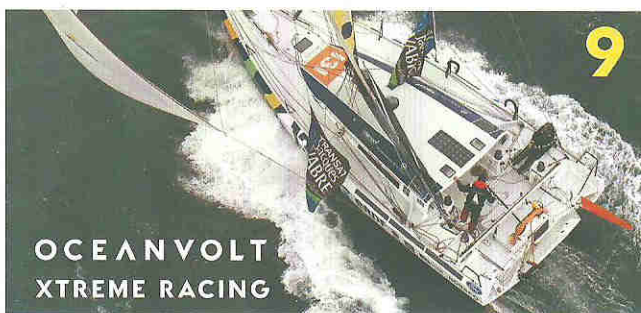
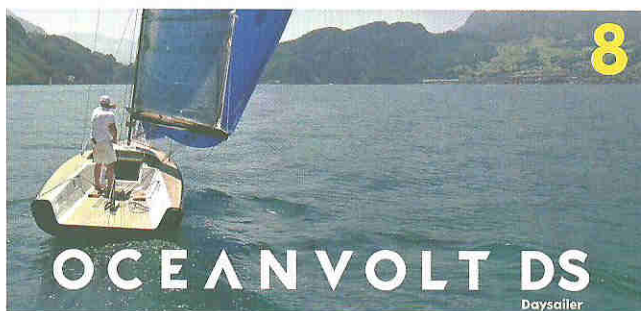
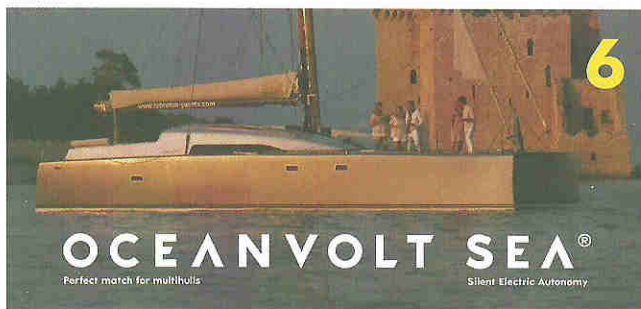




**OCEANVOLT**

**Electric Motors &  
Energy Management Systems For Boats**



## GOING ELECTRIC – ADVANTAGES

The Oceanvolt electric motors offer huge advantages compared to diesel engines. The motors are silent, light-weight and cause no exhausts. They're maintenance free, with a payback time less than 5 years. The weight distribution of the system is fully optimizable to suit different applications.

Compared to combustion engines, the system is silent, simple and reliable. One Oceanvolt motor system weighs as little as 70,5kg. This is one third of a conventional diesel engine. The system does not burn fuel or cause CO2 emissions.

The torque of a modern electric motor is huge compared to a diesel engine. Therefore manoeuvring in harbours and tight situations is much faster, easier and safer. Shifting from full forward to full reverse can be done in a split second, as there is no gearbox that can break.

## AWARDS

Clean Design Award 2012  
 METS Special Mention 2012  
 Pitmann Innovation Award 2013  
 Boating Product of the Year Honorable Mention 2014

## FACTS ABOUT OCEANVOLT

**Founded:** 2004  
**Country:** Finland  
**Installed systems:** ca. 65  
**VAT:** FI 19041400

Oceanvolt Ltd is a Finnish company focused on producing electric propulsion and energy management systems for catamarans and sailboats. Each and every part of the system has been specifically designed for electrical use. Each system manufactured in Finland is tested before shipment. "Less from nature, more for people."

## TESTIMONIALS

"Electric motors have been married to saildrive legs before, but Finland's Oceanvolt incorporates a number of features in its well-designed SD8.6 and SD15 units that clearly bring them to the head of the pack."  
 – *SAIL Magazine*

"Oceanvolt has done the best job in incorporating the three most essential aspects of Clean Design in their product. The design is user-friendly, simple and easy to use."  
 – *Clean Design Award Jury*

"It's a dream come true. It feels good to see the boat in the water and it will be a weird feeling to leave the port in silence!"  
 – *Damien Seguin, Class 40 racing boat*

"Best thing ever"  
 – *Timo Gröhn, X-Yachts X-302*

"I chose the Oceanvolt electric motors instead of traditional diesel motors, because they are 250kg lighter than diesels and you can recharge the batteries while sailing, both of which are important benefits for a racing catamaran."  
 – *Bernard Haerri, owner of the SIG45*

"The first results surpassed all of our expectations at the shipyard, concerning speed and even the range of the system."  
 – *Owners of the Aventura 33*

"I'm really enthusiastic about Oceanvolt. Maximum convenience, almost soundless, totally clean, no fuel spills, just plug in, immediately ready to use, powerful, yet very smooth to adjust the speed, elegant & almost invisible."  
 – *Felix Maire, owner of H-boat, Switzerland*

"More than 2000 nautical miles, without a problem."  
 – *Owner of Leopard 40*

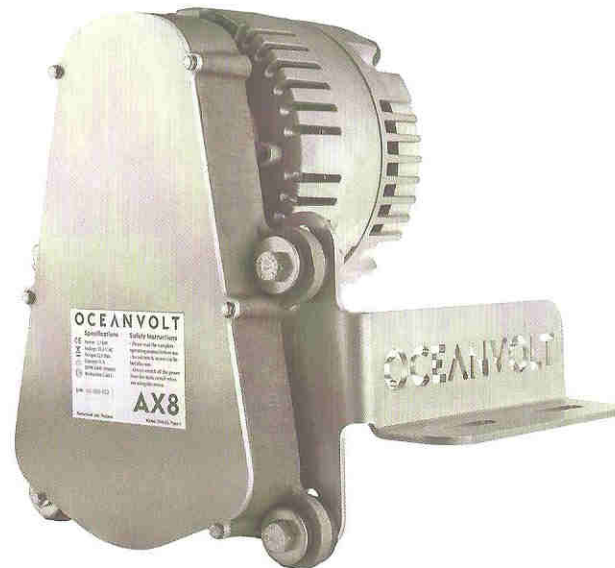
# MOTORS & COMPONENTS

## OCEANVOLT ELECTRIC MOTORS

The Oceanvolt electric motor system is the result of over ten years of product development and testing. Tests have been conducted both in the laboratory and at sea.

Both shaftdrive (AX) and saildrive (SD) motor models are available. State of the art technology and its benefits are what give Oceanvolt its competitive edge.

The material used to create the saildrive of the regenerative system is a special marine grade cast aluminum coated with durable epoxy. A large surface sacrificial anode completes the equation, which guarantees maximum protection against corrosion.



“The Oceanvolt SD system has a patented, flexible mounting to attach the motor to the sailboat hull to absorb vibrations.”

- General Director Janne Kjellman



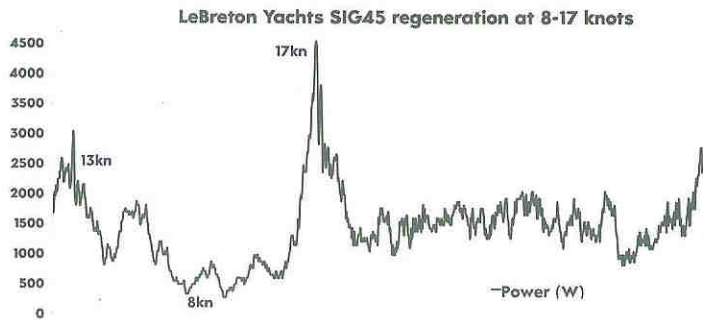
“Additionally we invented a feature by which the folding propeller can be optimally used to regenerate electricity and charge batteries while sailing.”

- Technical Director Richard Lax



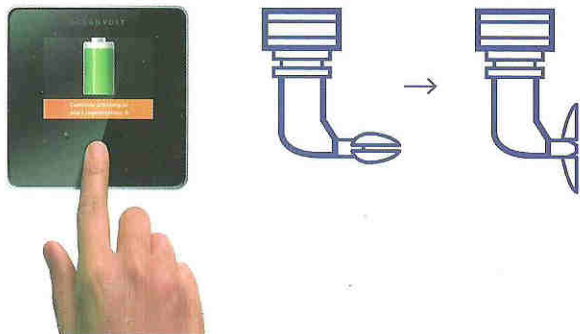
## USE THE SD MOTOR AS A HYDROGENERATOR

The Oceanvolt motors can be used as high efficiency hydrogenerators in boats 20-150 ft. These models dedicated to hydrogeneration provide even better efficiency due to larger propellers. The typical output is between 200W - 5kW in larger/faster boats. The hydrogeneration function is a standard feature for Oceanvolt propulsion models.



## RECHARGE BATTERIES WHILE SAILING

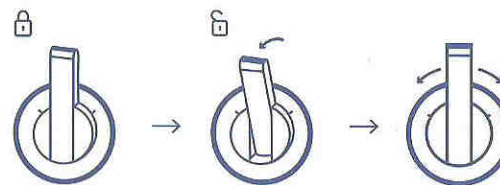
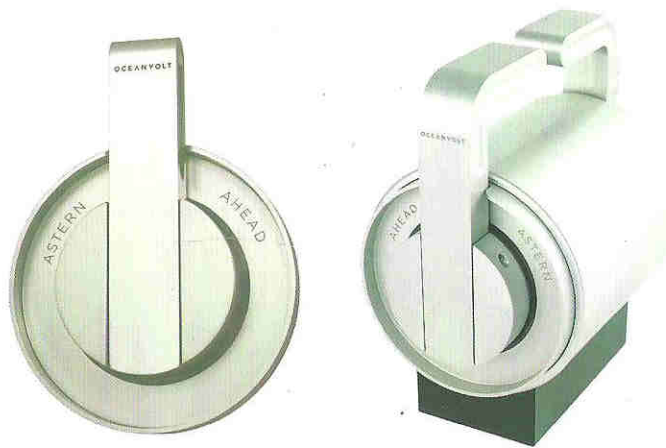
Intelligent motor controlling allows recharging the batteries while sailing with fixed and folding propellers with just one push of the button.



## THROTTLE LEVERS

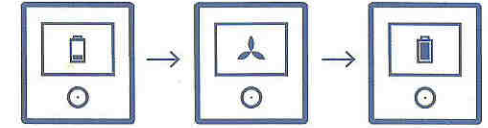
The throttle levers of Oceanvolt's electric propulsion system are manufactured out of sea water resistant anodized aluminum. The LED lights in the levers indicate the system status. The technology utilizes reliable CAN bus technology. The highly accurate throttle levers make maneuvering the boat easier in tight situations.

In a twin motor application such as catamarans, the Oceanvolt dual throttle lever with its special handle design enables the skipper to run both engines singlehanded and independently.



Pressing the levers into off position prevents accidental use of the motor.

## DISPLAY



The 3.2" color display is easy to use even in demanding conditions. All the necessary information can be read quickly thanks to simple and illustrative graphics. The display shows the battery charge, engine speed, and power level as well as the exact remaining operating time at any chosen speed.

## BATTERIES



The Oceanvolt propulsion system utilizes the benefits of modern and safe Lithium Iron Phosphate battery technology. The powerful Oceanvolt motor range up to 15kW require much higher safe discharge and recharge capability than traditional lead acid, AGM or cheaper Li-ion cells can give.

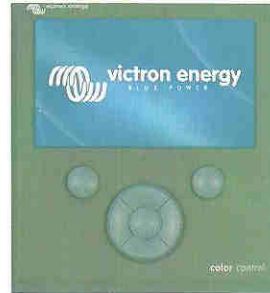
All batteries offered by Oceanvolt are compliant to the UN38.3 and IEC 62281. On top of this, the manufacturers do several tests in more extreme conditions to make sure that the batteries are safe at all times.



## VICTRON COMPONENTS

The Oceanvolt electric motor system is fully compatible with Victron Energy components.

### COLOR CONTROL GX

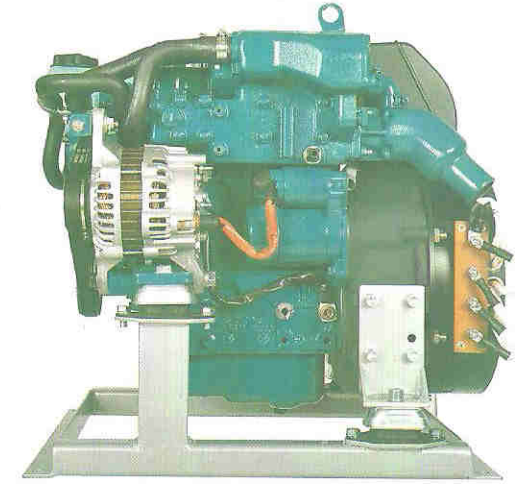


The Color Control GX provides intuitive control and monitoring for all products connected to it. Get information about the motors, batteries & chargers in one glance.

With an Internet connection all the data can be uploaded to the mobile app. Remote access possibility for Oceanvolt service.



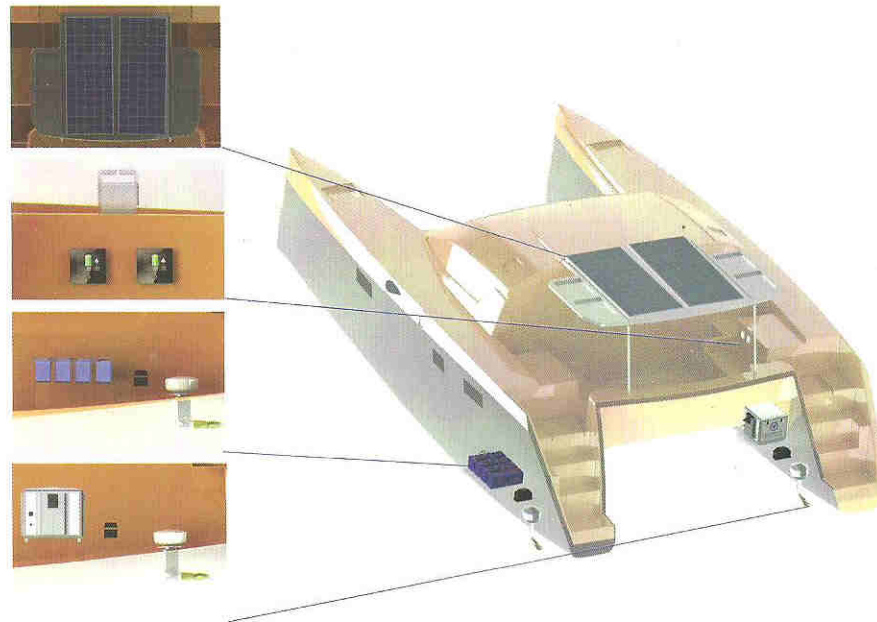
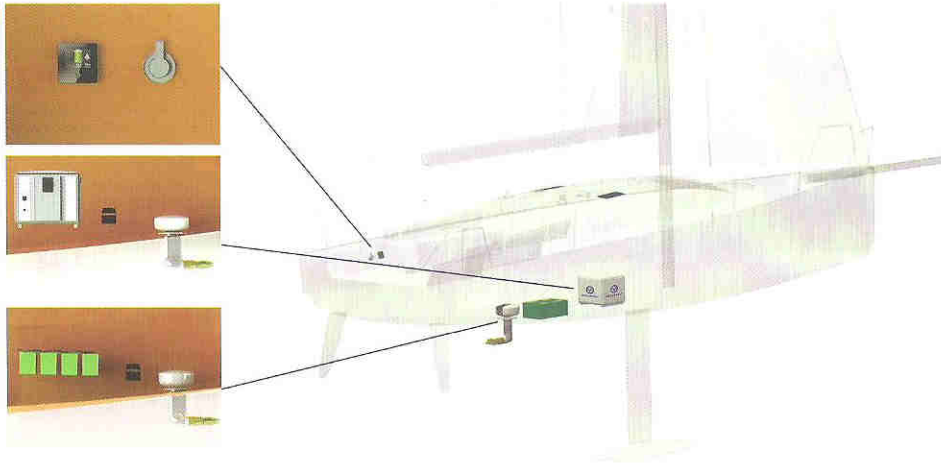
## GENERATOR



The DC generator is the backup power source for the complete system in larger boats. The DC system is superior to traditional AC generators, as it enables substantially higher currents and better efficiency. The DC generator is primarily used to recharge and cycle the battery bank, and it can also be used for direct powering of the propulsion motor.

The operation of the DC generator in the Oceanvolt propulsion system is seamless and fully automatic. The generator is run at the most fuel efficient and economic level. A typical 20kW generator weighs 180kg (790x535x650 LWH).

# COMPLETE SYSTEMS



## OCEANVOLT SEA®

The SEA in Oceanvolt SEA® stands for Silent Electric Autonomy. Oceanvolt SEA® is a complete electric motor system for catamarans and sailboats between 20-60 ft.

Oceanvolt SEA® includes the motors, batteries, chargers, solar panels, wind turbines and generators. The autonomy feature relates to the powerful regeneration by the motors themselves.

Oceanvolt SEA® even enables running the air conditioning system overnight without the generator thanks to the large propulsion battery capacity.



Photo courtesy of LeBreton Yachts

## OCEANVOLT XTREME RACING

Oceanvolt Xtreme Racing is a complete electric motor system for racing boats between 20-55 ft. It provides everything from motors, batteries and ultra-light generators to folding racing propellers and chargers.



The Oceanvolt Xtreme Racing system is fully compatible with Victron Energy components.

Xtreme Racing Software package to optimize performance in different applications is also available.

## FAST & LIGHTWEIGHT

Compared to combustion engines, the system is silent, simple and reliable. One complete Oceanvolt motor system weighs as little as 70,5kg. This is three times less than a comparable diesel motor system. The system does not burn fuel or cause CO2 emissions.

Volvo Penta 30HP		Oceanvolt SD15	
Motor & saildrive	183kg	Motor & saildrive	70.5kg
Diesel	85kg	-	-
Tank & fuel pipe	25kg	-	-
Leisure battery	80-100kg	Propulsion battery	80-120kg
Total weight	373-393kg	Total weight	150.5- 190.5kg

## MARINE RANGE EXTENDER



The MRE is a powerful, compact generator specifically designed for cruiser/racers and racing boats. The generator system is self-contained, all the necessary components are inside one box.

The system is much lighter than standard generators and very easy to remove from the boat, making it versatile. The 20 kW system weighs only 64kg.



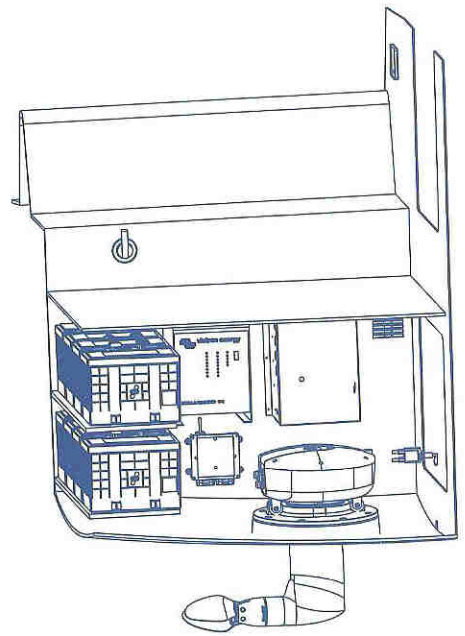
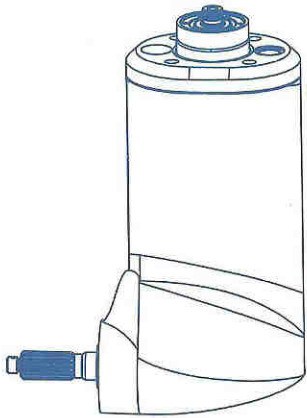
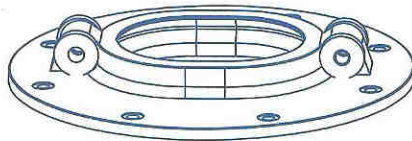
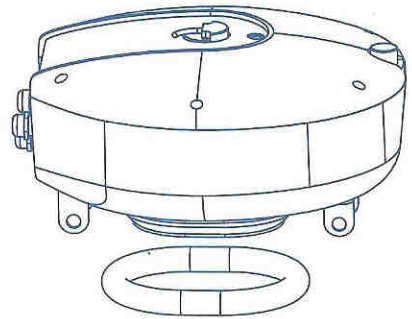
Photo courtesy of Damien Seguin



Photo courtesy of Damien Seguin

## INSTALLATION & REFITTING

The Oceanvolt refit attachment flange is designed for easy installations to fit directly onto existing saildrive beds of Yanmar and Volvo motors. No further adjustments are needed. The flange is glued on the old saildrive bed, and even the old bolt holes are used.





## OCEANVOLT DS FOR DAYSAILERS

Traditionally a daysailer is a sailing yacht for daily sailing enjoyment, occasionally also for short overnight trips. The motor is mainly used for getting in and out of harbours, and for maneuvering in tight situations like mooring.

The Oceanvolt DS brings clear advantages over combustion engines. The service freedom and silence in motoring gives peace of mind. Keeping our nature clean, no smoke or oil leakage into the water, no smell of oil or fuel inside or outside the boat makes every use of the boat a real pleasure also whilst motoring.

The compact design of the motor gives a lot more space inside the boat for storage or bunk beds. Also the overall design of the boat like cockpit floor level can be adjusted accordingly. For shorter overnight trips, the possibility to use an electric heater or stove instead of gas cooking systems shifts the safety level and increases convenience.



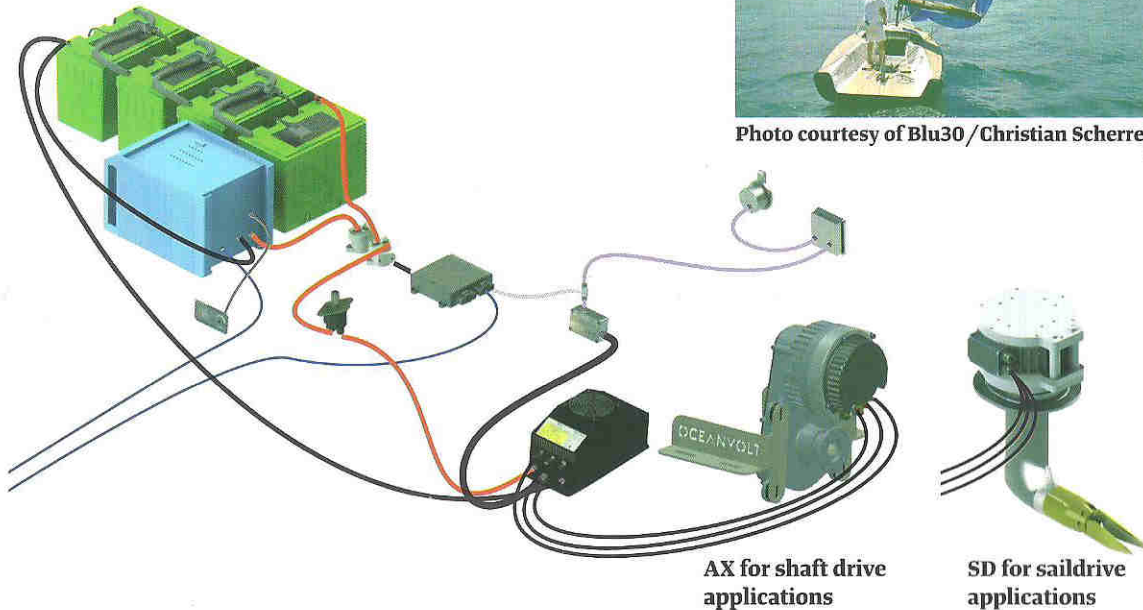
Photo courtesy of Wauquiez



Photo courtesy of Blu30/Christian Scherrer



Photo courtesy of Blu30/Christian Scherrer



AX for shaft drive applications

SD for saildrive applications

## TECHNICAL DATA

### SAILDRIVES

Motor model	SD6	SD8	SD10	SD15
Nominal power	6kW	8kW	10kW	15kW
Motor speed	2200 rpm	2200 rpm	2200 rpm	2200 rpm
Reduction ratio	1,93:1	1,93:1	1,93:1	1,93:1
Motor weight	46.5 kg	46.5 kg	46.5 kg	46.5 kg
Equivalent HP	9-15 hp	12-20 hp	15-20 hp	30-35 hp
Battery suggestions	4-7 kWh / 9.6 kWh AGM	5-11 kWh / 9.6 kWh AGM	7-14 kWh	14-21 kWh
Boat example	25-30 ft daysailer / H-Boat	Blu30	Maestro 345 / Arcona 37	Maestro 40 / Akilaria RC3

### SHAFT DRIVES

Motor model	AX3	AX5	AX8	AX15
Nominal power	3.7kW	5.2kW	8.3kW	15kW
Motor speed	2400 rpm	2400 rpm	2400 rpm	1100 rpm
Reduction ratio	2,46:1	2,46:1	2,46:1	1:1
Motor weight	22kg	22kg	28kg	28kg
Equivalent HP	9 hp	9-13 hp	20 hp	30hp
Battery suggestions	2-5 kWh Li-ion / 9.6 kWh AGM	4-7 kWh Li-ion / 9.6 kWh AGM	5-11 kWh Li-ion / 9.6 kWh AGM	14-21 kWh / 9.6 kWh AGM
Boat example	20 ft daysailer / Scandinavian Cruiser 20	25ft daysailer / Maxus 28 / Figaro Challenge	30-35 ft daysailer / Feeling 32	Feeling 39



# OCEANVOLT

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