



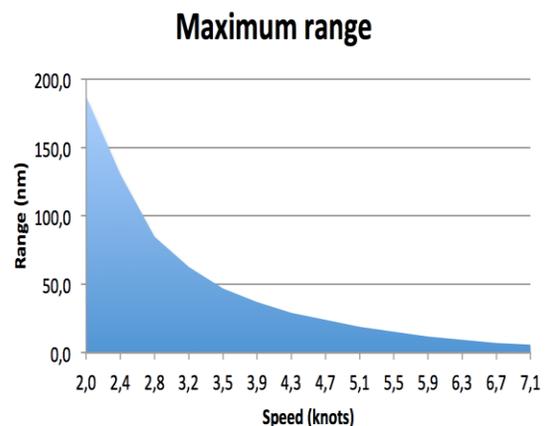
J/88 Goes Clean Energy with Oceanvolt SEA System

Oceanvolt's innovative, fully integrated SEA electric motor system (Silent Electric Autonomy) is being installed on the first 2016 model J/88 to be launched this summer in Newport, Rhode Island.

Imagine sailing on a beautiful day knowing that, even if the wind dies and you're forced to turn on the motor, peace and tranquility are not lost. Every minute sailing, the battery pack is charging, allowing you to later silently power back to the harbor.

"There's no quicker way to break the silence of a beautiful day for sailors than having to turn on the diesel engine," said Jeff Johnstone, President of J/Boats. *"Most of our owners will tell you they sail their boats 90% of the time. We would like to improve that other 10% and as well provide a more environmentally-friendly solution for sailors who love the sea."*

"The Oceanvolt SEA system has clear benefits compared to diesel motors, the most significant being silent operation, no emissions and low maintenance. On a full-charge there is enough battery power to go up to 25 nm with no sail or solar power support. Add in both of those elements, and the J/88 can conceivably go all day under mainsail enhanced apparent wind generation and 600 watts of solar panels traveling at over 5 kts."



Oceanvolt SEA System

The J/88 will feature Oceanvolt's SD6 6kW 48vdc system – which is lightweight (47 kg total) and has full hydro-regeneration capabilities, meaning that you can create energy back to the batteries while sailing using the folding propeller mounted on the strut-drive. Up to 1kW per hour can be generated to recharge the batteries while sailing at 6.5 kts. Unlike diesel engines that require ongoing maintenance by qualified mechanics, the Oceanvolt motor has no gears and very few components.



“For the past ten years, we have been developing innovative solutions for the electric/hybrid power market in Europe,” said Timo Jaakkola, President of Oceanvolt. *“Based in Finland, a country renowned for developing leading edge ‘green’ solutions, our company has pioneered the use of electric power in keelboats that range from 15 to 60 ft and ranging from 3kW to 15kW.”*

Victron Energy Integration

An important feature of the Oceanvolt SEA system is the complete integration of Victron Energy's solar power MPPT charge controllers, shore power inverters, and the hydro-generator power. The Oceanvolt RSI™ is a state of the art remote diagnostic and service interface that let's you check your boat's status from anywhere. Track all the data about the motor, batteries, generator, solar panels & chargers online in real-time. The [Victron Energy Color Control GX](#) provides you all the data logs, the ability to set parameters for alarms, and track the location and monitor your boat in real-time on a map (it even permits “geo-fencing” alarms should your boat venture away for some unknown reason).



Valence Lithium Technology

The J/88 SEA system uses four Valence U24 lithium phosphate batteries, renowned for their usage in military, medical and commercial high-tech applications worldwide (see www.valence.com). Lightweight (63 kg total), super safe and reliable (a nail driven through it won't set it ablaze or create a thermal runaway), the Valence systems are proven in



the field and have an excellent safety record. More importantly, Valence's lithium iron magnesium phosphate (LiFeMgPO₄) batteries charge quickly, and have over 2,600 cycles available at up to 100% Depth of Discharge per cycle (compared to standard lead-acid AGM batteries that have about 7,500% less cycle capacity). In fact, taken to only 80% DOD over its life (typical of many sailboat applications), the batteries will typically last over 5,000 cycles.

Pittman Innovation Award Winner

SAIL magazine's "Pittman Innovation Award" Winner 2013 in the Technical Category was the Oceanvolt SEA System. Hear what Adam Cort of [SAIL Magazine](#) has to say about the unique SEA system [here](#).



Solar Panel Sail Technology

In addition to hydro-powered regeneration with the SEA system, the J/Boats demo J/88 will also feature the latest solar powered sail technology thanks to UK Sailmakers France and their innovative [SolarClothSystem®](#). This design incorporates super-thin 65 micron film containing highly efficiency photovoltaic cells that will produce 600 watts per hour. The cells are flexible enough to be used on mainsails that get rolled or folded. A portion of the solar array will include removable panels that can be fixed on-deck or onto a boom tent while lying peacefully at anchor.



To learn more about the J/88 with SEA system please contact J/Boats at info@jboats.com or call +1-401-846-8410.