



Frequently Asked Questions

OSEA makes going electric simple, practical, and tailored to the way you boat. We combine proven marine electrification expertise with a technology-agnostic approach—selecting the best equipment from across the industry to deliver quiet, efficient, and reliable power. This FAQ answers the most common questions about how OSEA works, what it can do for your boat, and why hybrid-electric is the smarter way to cruise.

01. General Questions

How fast can my boat travel with an OSEA system?

You won't lose speed with a hybrid system. In fact, you'll gain control.

Unlike traditional diesel engines, OSEA propulsion delivers instant torque when you need it—making maneuvering easier and improving overall safety.

What maintenance is required?

A lot less than you're used to.

The electric components require minimal upkeep—around 10% of what a traditional diesel setup demands. And when it comes to our generators, you'll see up to 40% savings on maintenance thanks to fewer running hours and steady-speed operation. Less time at the boat yard. More time on the water.

Are there any limitations to space?

Quite the opposite.

Our systems are compact and intelligently integrated. On Karma, for example, we actually opened up significant service space—making residual systems easier to access and maintain. It's a cleaner, more streamlined setup that makes the most of your mechanical room.

02. Range

How long can I stay at anchor in electric mode?

Typically, between 3 days and a full week—completely silent, fully powered.

We size your battery system based on how you use your boat, so you can enjoy quiet anchorages without compromise. Run your lights, galley, systems—everything you need to stay comfortable and connected, without ever starting a generator.

What's the max range?

That depends on your system setup—but in most cases, you'll go farther with less fuel.

Take Karma, for example: with its original diesel setup, the range was around 1,800 nautical miles. As a serial hybrid, it now reaches over 4,500 nautical miles. That's more distance, fewer fuel stops, and a dramatically reduced environmental footprint.



Frequently Asked Questions

02. Range – Continued

How far can you go at cruising speeds?

Farther—using less.

Most powerboats see up to a 30% increase in range, while sailboats can gain up to 150%, depending on conditions. Your exact range will depend on your current fuel consumption and how your system is sized—but in every case, efficiency improves, and so does your freedom to roam.

03. Charging

How do I charge my system? Can I use shore power?

Absolutely. OSEA systems are designed to charge from whatever's available—shore power, generator, or renewables.

We tailor your setup to match your existing infrastructure, so you can plug in at the dock, top up underway, or harness solar at anchor. We'll size your shore power input based on your boat's needs—whether that's 30A or 100A, single-phase or three-phase. It's seamless, flexible charging—built around you.

How long does an OSEA system take to charge?

It depends on your power source—but it's faster than you might think.

With the generator, you can typically recharge in about an hour. Shore power or renewables will take longer—anywhere from a few hours depending on available power and weather conditions. Our systems are designed with the generator as the primary charging source, so you're never left waiting.

What is the cost for a full charge?

It depends on your local cost.

In general terms, if you pay \$.50/kWh, a 60kWh battery will cost \$30 dollars to charge.

04. Safety

Are lithium batteries safe on a boat?

Absolutely—and our track record proves it.

The team behind OSEA has spent the last 15+ years designing and installing some of the world's safest marine battery systems—on vessels that operate 24/7 in some of the toughest conditions on earth. From offshore supply ships to ferries, our technology has been trusted where safety is non-negotiable. That same expertise goes into every OSEA system.



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04. Safety – Continued

Is it possible to run out of power while at sea?

It's extremely unlikely—and even then, you're covered.

OSEA hybrid systems are built with redundancy. If your battery ever runs low, your generator automatically takes over to keep you moving. And just like any diesel-powered boat, you still need to manage your fuel—only now, you have more flexibility and more ways to stay powered. You're never left without options.

Why is OSEA the right team for safe system design?

Because we helped define the standards for electric propulsion.

Our team wrote the rulebook for industrial battery use in the marine industry—and we've spent the last 15 years electrifying fleets across Europe, Asia, North America, and the Middle East. With a 100% safety record across all our industrial installations, OSEA brings unmatched experience, global perspective, and proven reliability to every project we take on.

04. Production / Service

Can any make/model of boat be hybridized?

Yes, it is always a question of economics, but anything can be made hybrid.

Where is the retrofitting done?

At your local boatyard, contact us for a list of yards we currently partner with.

Does the purchase include service? If not, who can do the service or repair?

Service is not included in our design quotes, but we do offer inclusive service packages to all of our customers at the time of purchase. Our Service packages include all maintenance costs and parts needed, but do not include travel expenses or shipping if different from the home port.

How long is the warranty on a NetZero Yacht system?

We back our systems with the strongest warranty in the industry—10 years of 100% replacement coverage on every component. When we say our technology is built to last, we put our money where our mouth is.

What kind of lifespan do the batteries have?

The batteries will typically last at least 10 years, they have an engineered life of about 15 years.