

ASMO Advantages:

- **Ease of installation** – Compact and efficient arrangement of components and physical design makes preparing for and completing installation easier and less time-consuming. Equipment ships to customer pre-wired and set up so that no covers have to be removed or internal wiring altered. Wiring and cables provided are long enough for 95%+ of applications with out modification. Templates for mounting components are available in advance of shipment.
- **Gearing Flexibility** – The ASMO gear reduction concept makes it easy to select the reduction to match the propeller. Both during and after initial installation, the reduction can be changed within minutes using little more than two Allen wrenches.
- **Internal disconnect relay** – AYBC standards require the installation of a means of disconnect to isolate the propulsion batteries and the motor. By including an internal disconnect relay, the ASMO system satisfies this requirement without the need for any external components as long as the control box is installed outside of the battery compartment.
- **Low Maintenance** – ASMO builds its systems with components that are specially designed for long life and long service intervals in marine environments such as 4,000-hour gearing belts and up to 3,000-hour motor brushes.
- **High durability and reliability** – ASMO selects conservatively rated components, such as motors, bearings, brackets and fasteners to assure that their systems withstand pounding through waves, heeling, and other physical forces with minimal need to be tightened, adjusted or re-aligned. ASMO selects motors that are routinely used in demanding industrial applications such as automated manufacturing and military installations in which they must withstand frequent starting and stopping in extreme environments.
- **Long Tenure & Marine Market-Focus** – ASMO Marine began developing electric propulsion solutions in 1998 with a team of experienced sailors and boaters. They sold their first system in 2001. Today's Thoosa products incorporate improvements based on years of development and lessons learned.
- **Longevity** – ASMO Marine electric propulsion systems are in service throughout the world. Some owners have had them for 10 years with solid performance throughout their lifetimes.
- **Throttle styling and physical design** – ASMO's throttles are made of high-grade anodized aluminum with tapped metal backing plates for secure, waterproof installation and smooth, responsive feel.
- **Digital control** – ASMO controllers use a proprietary microprocessor-based technology that translates throttle position and motion into a stream of instructions to the motor controller in order to deliver graduated shifting between forward and reverse as well as smooth thrust changes while minimizing mechanical wear on the motor and bearings.
- **High-quality connectors** – ASMO uses corrosion-resistant, high quality connectors for the battery monitor, throttle and key switch for ease of installation and long life.
- **Advanced thermal design** – The ASMO control box is designed and machined to demanding tolerances in order to maximize heat transfer away from the motor controller.
- **High-quality metal work** – ASMO selects high-grade, heavy-gauge stainless steel for its motor frames, brackets and covers resulting in high corrosion resistance and maximum physical strength.
- **Ease of integration** – The ASMO system comes pre-wired with connections for charging sources and converters that make it possible to connect engine-driven generators, wind and solar chargers, 12-volt converters and other ancillary components with minimal extra wiring and installation effort.