



SEAMOTO

ELECTRIC MARINE ENGINES



WE MAKE ELECTRIC PROPULSION MOTORS
FOR THE PEOPLE AND NATURE

www.seamotoelectric.com



ABOUT **SEAMOTO** ELECTRIC MARINE ENGINES

Seamoto Electric Engines Private Limited is a clean-tech maritime start-up in India, who has developed India's First Electric Outboard Engine on Submersible Direct ECO-Drive technology. This electric propulsion motor can run a boat fully on battery power with minimal running cost. We have developed this non-pollutive engine with a clear aim and a vision to safeguard our nature, water bodies and breathing air. Our entire team is on the dedicated mission on the development of higher power electric boat engines. The Founders of Seamoto has 22 years of hands own experience in technical-sales & marketing in the IC engines and marine industry. The marine OEM experience from TATA Motors, Perkins and Eicher Motors has gifted a vast knowledge on marine propulsion system and various propulsion methods.

Everyday alarming water & air prolusion has made us to think about developing a fully indigenious e-propulsion system in India to cater the tourism, ferry boats and fishing boat industry. We started our RnD for this mission on 2020 and the first prototype has born on 2022 after rigorous testing and trials . Seamoto is more connected to nature, rivers and forests and that is the reason we started working with many sustainable mobility projects across India. We have qualified for many grants from Kerala Start-up mission on our unique innovation and currently incubated in Maker Village where we do our production and design works.



Seamoto Electric Engines Pvt. Ltd. is a rewarded start-up in Kerala start-up mission and incubated now at Maker Village Cochin for the technology upgradation and managing the production works. This platform gives us more learnings and an ocean of industry experts network. We have also qualified for CUSAT-Rusa award for our unique innovation from minister of industries - Kerala.



Seamoto has zero pollution,
very silent and no vibration.
A friend of nature and
people on water.



WEATHER & CLIMATE CHANGE BECAUSE OF POLLUTION

Seamoto started working on sustainable and clean mobility by hearing the dangerous alarm of river and lakes pollution from conventional fuel engines emission. The new boat registration has very much restricted due to the over pollution of river water which has crossed the limit. Need of the hour have come to move to a clean electric mobility which will save our nature, Air and water bodies.

SUSTAINABLE MOBILITY

The term sustainable mobility goes far beyond reducing emissions. The transport sector has the potential to improve the lives and livelihoods of billions of people. However, as well as meeting people's needs today, the sector must be ready to respond to future generations expectations: this is the essence of sustainable development. The world is moving towards reducing Co2 emissions in all the ways.

When we keep each steps on the development of a fully indigenous electric propulsion system for our boats e-mobility, we are saving our earth, water and our breathing air and gifting a fine nature to the younger generation.



OUR VISION & MISSION

To serve the people and nature with our non-polluting electric propulsion engines and gift a clean nature and earth to the next generation.



SEAMOTO STORY & TECHNOLOGY

Seamoto Electric propulsion outboard motor has born on 2022 after vigorous trials and shaped up as a commercial product in early 2023 in the tag of MAKE IN INDIA. The directors of Seamoto has a hands-on experience in the marine industry especially in various propulsion method & systems. The motor and the controller has been designed to meet the high torque requirement and also optimum battery consumption. It has a rugged design and maintained high quality standards in the whole product assembly. The engine body has been coated with Silicon mixed polymer coating which can withstand corrosion and is a good water repellent too.

Our electric propulsion models 1.5HP, 3.5HP & 8HP are working on a Submersible Direct ECO Drive technology in which the propeller is directly mounted to the submerged motor shaft. Because of natural cooling and there is no gearbox used between the motor and the propeller, the motor can push the water on high torque and in full power. The digital accelerator unit has been developed in-house and has un-limited turning life.

We have used the industry leading Lithium Ion Ferrous Phosphate battery to power these motors and the battery has IP67 protection. We use 48V and 96V systems on various models. High quality APC connectors has been used for battery power connectivity. The product is fully developed and manufactured in India in the state of Kerala. This development will be a valuable contribution to the marine industry across the world.





SM 1.5 HP COMPACT ELECTRIC PROPULSION

A very cute, light weight and compact propulsion unit for small FRP and wooden canoe and country boat. Best suitable for open small ferry boats, open small fishing boats, Kayaks and floating sunbath beds. It is a small power house which takes only 12A from the battery and works on 48V LFP battery. Transom height of this motor is 15". It runs 2 hours on 48V - 24Ah LFP battery at a full throttle acceleration and runs 4 hours on 50% acceleration. Battery will get fully charged in 4 hours.

Engine power Equivalent	1.5HP
Voltage	48V to 53V
Continuous ampere consumption	12A
Propeller	6"
Propeller make	In-house, Alloy
Number of blades	2
RPM	2500
Accelerator	Tiller Arm
Engine body	Alloy
Reverse & Forward	YES(Digital)
Engine lifting	45°
Battery Input power MCB	16A
Battery Capacity Display	VOLT-AMP-%



SM 3.5 HP COMPACT ELECTRIC PROPULSION

Heavy Duty and best in the industry Electric propulsion unit for mid-sized FRP and wooden boat. Best suitable for open small ferry boats, open small fishing boats and tourist boats. It is a small power house which takes only 22A from the battery and works on 48V LFP battery. Transom height of this motor is 15" (short shaft) and 20" (long shaft). It runs for 2 hours on a 48V - 42Ah LFP battery at full throttle speed. When the speed get reduced to 50% , it runs upto 4 hours. Battery will get fully charged in 4 hours.

Engine power Equivalent	3.5HP
Voltage	48V to 53V
Continuous ampere consumption	22A
Propeller	6"
Propeller make	In-house, Alloy
Number of blades	3
RPM	2500
Accelerator	Tiller Arm
Engine body	Alloy
Reverse & Forward	YES(Digital)
Engine lifting	45°
Battery Input power MCB	32A
Battery Capacity Display	VOLT-AMP-%



SM 8HP COMMERCIAL ELECTRICAL OUTBOARD ENGINE

8HP Unit has been designed for heavy duty commercial use. Fishing boats up to 30 feet are best suitable for this. Shikkara boats, 12 seater tourists boats, long ferry boats are good segments to mount these engine. It runs on 96V LFP Battery and deliver excellent propulsive power. 96V-60Ah Battery can perform for 1 hour and 45 minutes in full throttle speed.

Engine power Equivalent	8HP
Voltage	96V to 100V
Continuous ampere consumption	39A
Propeller	8.5"
Propeller make	In-house, Alloy
Number of blades	3
RPM	2500
Accelerator	Tiller Arm / Remote control
Engine body	Alloy
Reverse & Forward	YES(Digital)
Engine lifting	45°
Battery Input power MCB	50A
Transom Height	20" & 25"
Engine weight	18Kg
Battery Capacity Display	VOLT-AMP-%





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