



YOU FISH. WE LISTEN. AKA HYBRID POWER FOR FISHING BOATS

Maximum efficiency and flexibility





AKA'S HYBRID POWER CUSTOMIZED FOR YOUR FISHING VESSEL

More power. Increased savings.
More reliability at sea.

Aspin Kemp & Associates (AKA) is recognized as an innovative technology leader in power and propulsion systems. Our products and services improve reliability, save energy, and enhance safety while reducing emissions and lowering maintenance costs.

AKA offers a full spectrum of integrated products and services including engineering, new product development, manufacturing, testing, installation, systems integration, commissioning, and full life cycle support.

Since its foundation in 1996, AKA has grown to have offices in many countries serving clients globally, with our headquarters located in Prince Edward Island, Canada.

AKA's engineering team underwent an indepth design phase working closely with fishermen to understand the fishing community and their specific needs.

The AKA Hybrid Fishing boat's power and propulsion system consists of two different sources that supply power to the propeller, an electric motor, and a Diesel engine coupled to the shaft.

AKA's hybrid design allows you to configure your engine based on your current activity, for example sailing or fishing. Allowing the vessel the flexibility to operate at different loads increases its efficiency. This works well for fishermen, as most of the time is spent operating at a lower load. Traditional propulsion system designs do not take this into account and therefore create excess power when not needed.

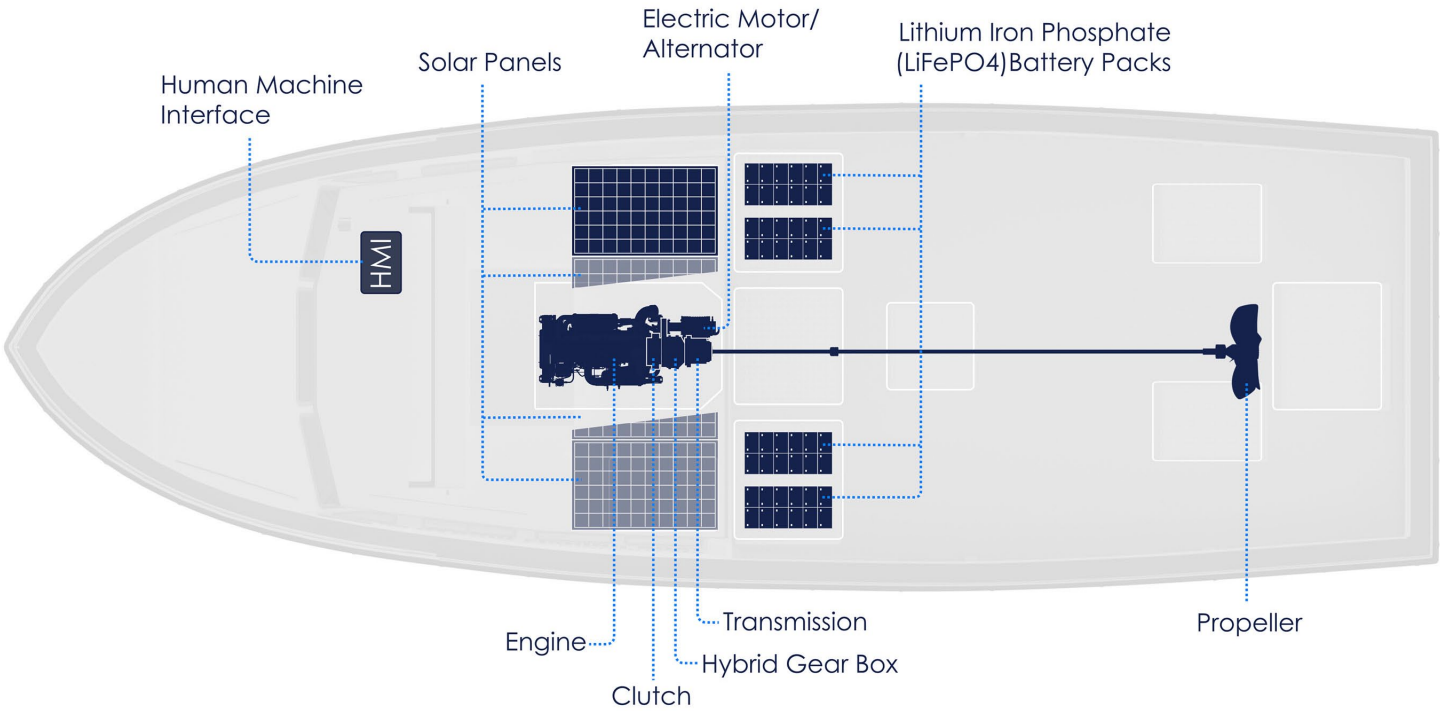
In addition, when the boat is in fishing mode (electric mode) zero emissions are produced. This allows fishermen to be versatile - much like the elements they face daily.

The Diesel engine can be engaged or declutched, run independently or simultaneously with the electric motor.

The electric motor is never fully at rest as it doubles as a generator (PMG) when running the Diesel engine. This Diesel sailing time also functions as electric charge time. These various configurations mean less running hours on the Diesel engine, therefore decreasing maintenance costs and increasing the longevity.

The electric motor can also be charged via shore power hookup as well as a supplemental solar trickle charge. The boat's hydraulics run as normal in any mode.

AKA's hybrid system provides more power than a traditional system by increasing savings, while adding a secondary power supply and generator at sea.



Hybrid System

Providing you with flexible power configurations and battery backup, our cutting edge technology will take you home.

Features:

- Safe operation
- Exceeds emission requirements
- Reliability - two engines are better than one
- Flexible operating modes
- Reduced maintenance costs
- Reduced fuel consumption
- Increased engine longevity

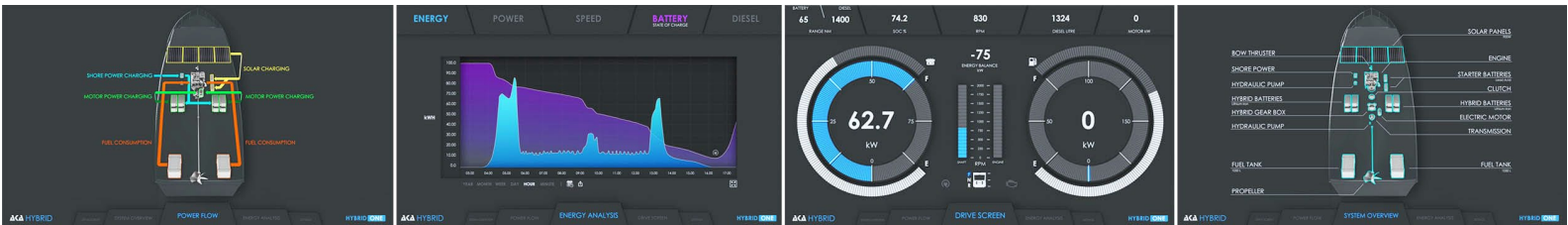
Battery System

AKA's hybrid drive system allows two different sources to power the propeller - an electric motor and diesel engine coupled to the shaft. The source of power for the electric motor is a high-capacity Lithium (LiFePO4) battery consisting of eight battery modules.

Features:

- Three Charging Modes:
 - via diesel engine (electric motor works as a generator),
 - via shore power and onboard charger, or
 - via solar power.
- Several Operation modes (Diesel only, Electric only, and Hybrid mode)
- Additional 24V Lead Acid battery providing power for diesel starter and control power for navigation equipment, radio, lights etc.

Integrated Power Management System and Battery Management System provide thorough visual information, including alarming and pre-alarming states as well as system optimization through data analysis.



Aspin Kemp & Associates (AKA)

AKA is a leader in power and propulsion technology.

AKA offers a full spectrum of integrated products and services including; systems integration, new product development, engineering, manufacturing, testing, installation, commissioning, life cycle support, field services, integrated documentation, training, solar energy and installation.

Our solutions incorporate several patented and innovative technologies including Advanced Generator Protection (AGP), AKA Hybrid Propulsion Solution and Hybrid Drill Floor for ultra-deepwater drillships.

Our manufacturing facility in Prince Edward Island includes a state-of-the-art mechanical fabrication shop, an electrical assembly area and a medium voltage test bay.

AKA systems are developed with the backbone of our Integrated Documentation System (IDS™). This methodology is a foundation for information transfer to our clients. Once a project is complete, our clients receive best in class documentation and asset management records.

AKA's global clients and partners include MAN Energy Solutions, Transocean, GE Energy, Siemens Oil & Gas, Foss Maritime, Kotug International, Bhagwan Marine and more.



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