Brochure V 01 11 . 2025

E FALKE

HolisticHybrid™

Scalable hybrid energy
Adaptable to every vessel

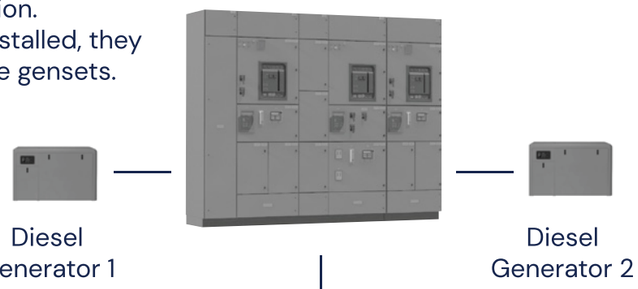
Unlock the full potential of your shore power unit!



3 ~
Three Phase

Main output:

- Connects to the vessel's main switchboard.
- Bidirectional connection.
- When batteries are installed, they can be charged by the gensets.



Diesel Generator 1

Diesel Generator 2

1 ~ Single Phase OR 3 ~ Three Phase

Secondary output

- Supports different voltage and frequency settings from the main output.
- For yachts with double grid:
  - Main output: 400 V, 50 Hz
  - Secondary output: 120 V / 240 V, 60 Hz (or vice versa)

Main Switchboard

Secondary Grid

VESSEL

3 ~
Three Phase

3 ~
Three Phase

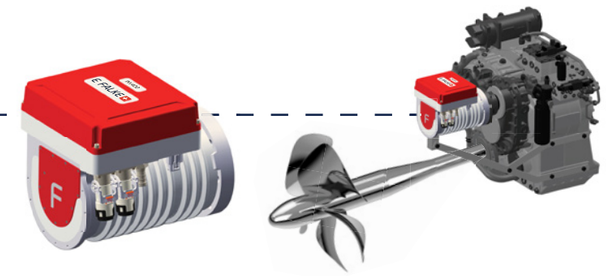
1 ~
Single Phase

1 ~
Single Phase

SHORE

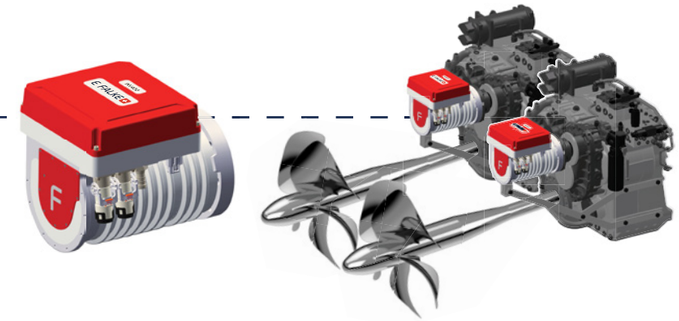


HYBRID



Add one EPM 300 kW on each PTO

- Turn OFF your gensets while sailing and even during maneuvering.
- Installed gensets power can be reduced.



Add an EPM 300 kW as a motor/ alternator on each gear box (If the gear box supports PTO/PTI)

- Utilizes a single main engine to drive its own propeller while generating electricity to power the opposite-side propeller.
- Extended range.
- Fuel economy.
- Allows generators to be turned off while sailing.



Add one or more BS100 100 kWh storage batteries

- Enjoy silent nights.
- With a PTO/PTI gear box, experience smooth and quiet movement inside ports without running the diesel engines.

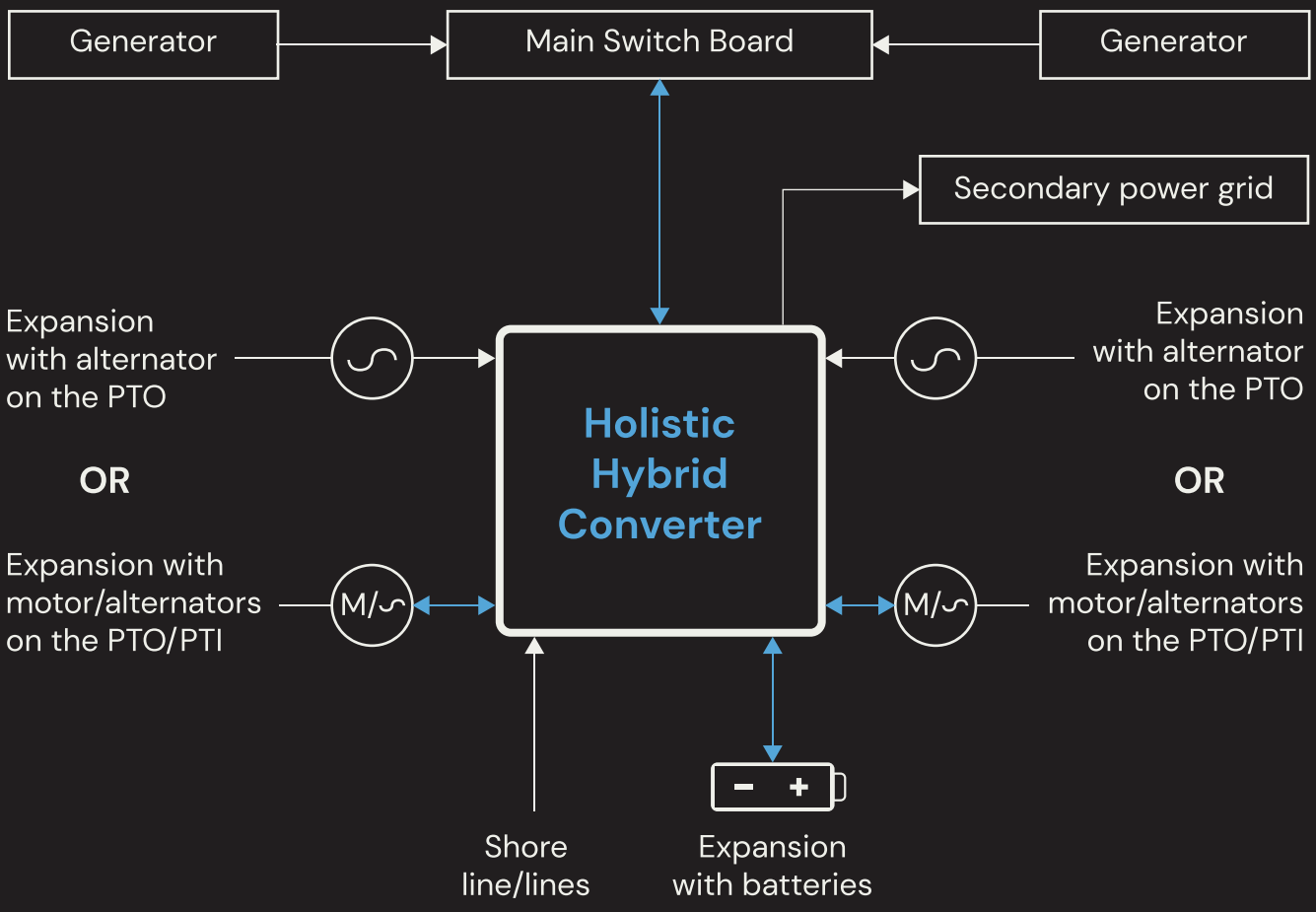
- Can be connected to one or multiple shore pillars.

PATENT PENDING

E FALKE

Platform Features

- Available in 40 kW, 60 kW, 80 kW, 100 kW, 120 kW, 140 kW, and 160 kW models, and in combinations for higher power output.
- Supports single or multiple input cables with programable power draw from each cable.
- Features main and secondary outputs with different settings.
- Ultra-high efficiency, high power density with SiC and GaN semiconductors.
- Blocks of 585 x 560 mm footprint, allowing easy installation through hatches.
- Expandable for power generation, propulsion, and batteries.



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