

WINDELO

ELECTRIC & HYBRID DRIVE SYSTEM

SOURCE DISTRIBUTION

220 V / 110 V SYSTEM



Shore supply
16 A - 32 A

48 V SYSTEM



Generator(s)
17.9 kW - 35.8 kW



Photovoltaic solar panels
up to 4800 W

24 V SYSTEM

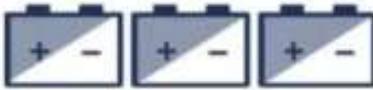


Wind turbine
400 W - 800 W

TRANSFORMATION / ENERGY



Charger / Inverter
10 kVA



Propulsion Batteries
53.8 kWh / 1120 Ah 48 V

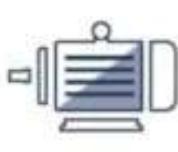


Service Batteries
6,7 kWh - 13,4 kWh

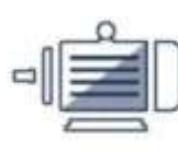
DISTRIBUTION



AC 230 V / 110 V



Port Engine
20 kW



Starboard Engine
20 kW



DG 24 V



WINDELO

ELECTRIC & HYBRID DRIVE SYSTEM

BATTERY BANK (LFP Batteries)

53.8 kWh 48 V for **propulsion**

6.7 kWh 24 V for **service**

20-80 % CHARGING CYCLES FROM SINGLE POWER SOURCES

Solar up to 2 400 W: 29 hours of sunshine

Solar up to 4 500 W: 22 hours of sunshine

Hydrogeneration: 24 hours at 10 knots

1 generator (17.9 kW): < 3 hours

Shore Power (220 V 32 A): < 8 hours

TYPICAL USE CASES:

Day at anchor Making 200 L of water and using all comfort equipment (washing machine, dishwasher, electric hobs & oven...) would use 10 kWh. 3 000 W of solar will provide a positive energy balance.

Even better 4 500 W of solar will produce 18 kWh giving you 8 kWh to spare.

Motoring only Cruise 4 hours full electric at 6 knots and top up with the generator in 75 minutes **OR** motor up to 1 100 nm with the Generator in Autonomy mode.

Coastal cruising For example, motor 1-2 hours and sail 3-4 hours with hydrogeneration. The boat will be recharged by the evening when you reach anchorage.

Long passage Fully autonomous and constantly charged from green energies only (solar & hydrogeneration).

