

# HK

## HYBRID & ELECTRIC KIT

### DESCRIPTION

HK is the new kit for electrifying recreational and professional boats with an endothermic engine and shaftline transmission. The kit provides a belt drive to precisely match the propeller to the power of the electric motor, making full use of it. The propeller is always sized for the power and RPM of the diesel engine. By varying the pulley diameters, the system is able to achieve the best gear ratio. The belt used has a super quiet profile to optimize comfort on board while sailing.

The pulley is fitted on downstream of the inverter, directly on the shaftline, so it is also easy to refit existing boats. The electric motor and controller are freshwater cooled by a closed circuit and a freshwater/seawater exchanger. All cooling components are enclosed in the easy-to-install and connect Cooling pack.

Operating parameters, including real-time battery charging values, can be viewed on dedicated touchscreen panel and mobile devices. The lithium batteries are 2.5 kWh modules with the possibility of extending the cruising range in electric mode. The Gold version includes 7 kWh modules. While the diesel engine is running, the kit recharges the batteries in only 40 minutes. Power sizes are 5 kW and 10 kW at 48 V and 20 kW at 96 V.

#### TECHNICAL SPECIFICATIONS - HK5

Max revolution speed: 2400 rpm  
E-motor type: BLDC  
Continuous power: 5kW @48V  
Peak current: 190 A  
Torque Max: 22 Nm  
Protection level: IP65  
Weight: 19 kg  
Reduction ratio: from 1:1 to 1:4  
Batteries type: Lead, ACM, GEL, LiFePo, LMC, Fuel cells

#### TECHNICAL SPECIFICATIONS - HK10

Max revolution speed: 2400 rpm  
E-motor type: BLDC  
Continuous power: 10kW @48V  
Peak current: 220 A  
Torque Max: 40 Nm  
Protection level: IP65  
Weight: 29 kg  
Reduction ratio: from 1:1 to 1:4  
Batteries type: Lead, ACM, GEL, LiFePo, LMC, Fuel cells

#### TECHNICAL SPECIFICATIONS - HK20

Max revolution speed: 3500 rpm  
E-motor type: BLDC  
Continuous power: 20kW @96V  
Peak current: 250 A  
Torque Max: 160 Nm  
Protection level: IP65  
Weight: 39 kg  
Reduction ratio: from 1:1 to 1:4  
Batteries type: Lead, ACM, GEL, LiFePo, LMC, Fuel cells

