

ISCAD - THE INTELLIGENT STATOR CAGE DRIVE



LIGHT WEIGHT

Light weight reduces energy consumption and maximizes range. At **45** kg, including motor and controller, our drive is much lighter compared to conventional electric models.



INTEGRATED CONTROLLER

ISCAD combines motor and controller in a single unit. This compact solution is easily integrated into boats, which reduces cabling efforts and saves installation space.



ROBUST AND RELIABLE

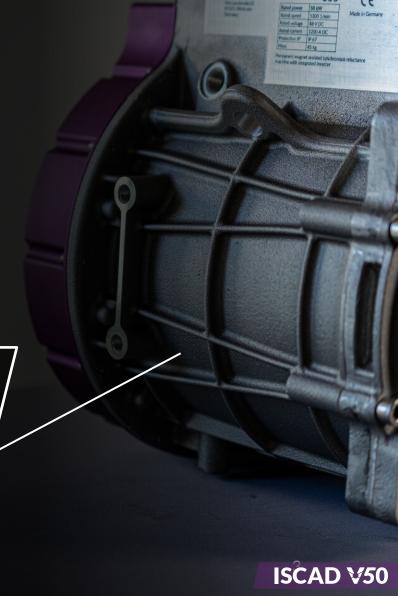
Due to the unique motor design, using a **stator cage**, ISCAD is much **more robust and failure tolerant** than conventional electric drives.



UNIQUE SAFETY

ISCAD is the first electric drive that can deliver a power output of **50 kW at safe-to-touch voltages of 48 V**.





ISCAD V50

VARIOUS APPLICATIONS

The drive is ideally suitable for:

- Motorboats
- Sailing yachts

MOTOR |



CONTROLLER

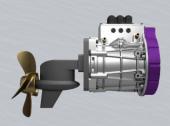
50 kW | **48 V**

Rated Power	50 kW
Max. Power	80 kW
Voltage	48 V
Motor Speed	4,350 rpm
Mass	45 kg
Dimensions	Ø 254 mm, L: 265.5 mm
Motor Type	PM-SynRM

^{*}Data incl. motor and controller



Shaft



Z-drive



Outboard



Saildrive



ADVANTAGES OF A LOW VOLTAGE SYSTEM

UNIQUE SAFETY

- A voltage of **48 V** is so low that in general, **contact** is possible **without risk**. The contact of a high-voltage system, on the other hand, can be life-threatening.
- Unlike a high-voltage system, there is never any risk of electric shock.

EASY INTEGRATION & MAINTENANCE

- Wiring and clamping technology for low-voltage systems are much simpler than for high-voltage systems.
- For low voltage systems, integration and maintenance are possible without special high-voltage training. This increases your flexibility and reduces costs.
- No high-voltage technical inspection is required.

ADVANTAGES OF A 48 V BATTERY

- The design of the battery management system is considerably simplified.
- The availability of the entire battery is significantly increased.





NO ADDITIONAL CONTROLLER NEEDED.

EXEMPLARY SETUP

THROTTLE

J1939 Standard



AVENTICS

DRIVETRAIN

Reduction gearbox with output torque 305–470 Nm





MERCURY

MOTOR INCL. CONTROLLER

ISCAD V50 incl. integrated control unit with CAN Bus



DISPLAY

Standard commercial navigation







CHARGING DEVICE

Commercially available charger 3-20 kW







BATTERY

30–150 kWh on the basis of of 48 V standard modules







ABSOLUTE **FLEXIBILITY**

ECO

Power 30 kW

Capacity 20 kWh

Charging 3 kW

Display 7 Zoll touch

Throttle CANBus

COMFORT

Power 50 kW

Capacity 30 kWh

Charging 10 kW

Display 7 Zoll touch

Throttle CANBus

PERFORMANCE

Power 50 + 80 kW

Capacity 55 kWh

Charging 20 kW

Display 7 Zoll touch

Throttle CANBus, Premium

