

# ISCAD V50

48 V high performance drive  
with integrated controller

**48 V | 50 kW**



## Specifications\* ISCAD V50

<b>Mechanical peak power</b>	<b>80 kW</b>
Mechanical rated power	50 kW
Voltage	48 V
Motor mass incl. controller	45 kg
Rated speed	4,350 rpm
Dimension incl. controller	Ø 254 mm , L: 265.5 mm
IP code	IP67
Water cooling	Dual circuit cooling, 7 l/min, max. 32°C
Motor Type	PM assisted synchronous reluctance motor

## Typical Applications

ISCAD V50 is ideal for **motor boats** and **sailing yachts**. Depending on the application, the use of a reduction gear is recommended. Contact us for advice on system design.

### Specifications\* incl. reduction gear

Rated speed	1,700 rpm
Mass	60 kg
Diameter	254 mm
Length	431 mm + 82 mm shaft



Shaft



Z-drive



Outboard motor



Saildrive



### LIGHT WEIGHT

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



### 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

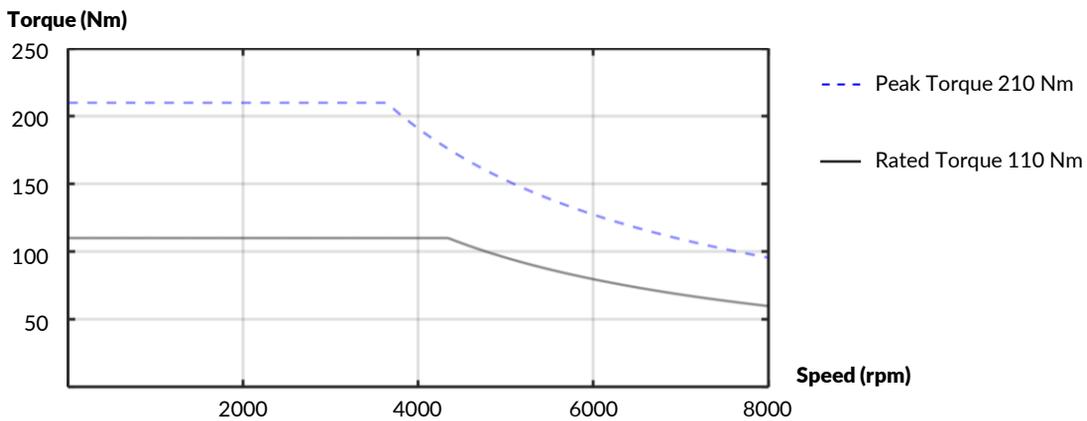
Due to the unique motor design, using a **stator cage**, ISCAD is **much more robust and failure tolerant** than conventional electric drives.



### 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.

## Torque vs. Speed



## Power vs. Speed

