

ISCAD V50

48 V high performance drive
with integrated controller

48 V | 50 kW



Specifications* ISCAD V50

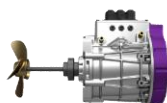
| | |
|------------------------------|--|
| Mechanical peak power | 80 kW |
| Mechanical rated power | 50 kW |
| Voltage | 48 V |
| Motor mass incl. controller | 45 kg |
| Rated speed | 4,350 rpm |
| Dimension incl. controller | Ø 254 mm , L: 265.5 mm |
| IP code | IP67 |
| Water cooling | Dual circuit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

Typical Applications

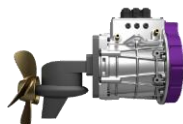
ISCAD V50 is ideal for **motor boats** and **sailing yachts**. Depending on the application, the use of a reduction gear is recommended. Contact us for advice on system design.

Specifications* incl. reduction gear

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



Shaft



Z-drive



Saildrive



Outboard motor



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

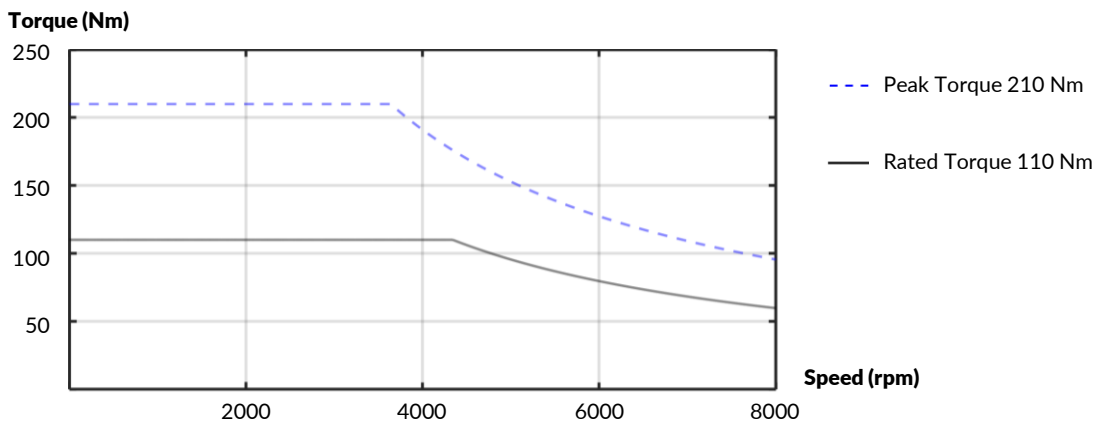
Due to the unique motor design, using a **stator cage**, ISCAD is **much more robust and failure tolerant** than conventional electric drives.



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

