

# ARIES R50



SAFE-TO-TOUCH TECHNOLOGY



48 V low-voltage - no high-voltage protection measures required

## SPECIFICATIONS\* ARIES R50 OUTBOARD

Motor type	PM-assisted synchronous reluctance motor
Mech. rated power	50 kW
Supply voltage	48 V (44 V - 54 V full operation)
Max. voltage	58 V
Logic supply voltage	12 V
Shaft length	L: 20" / 51 cm   XL: 25" / 63.5 cm
Dimensions (L x W x H)	L: 78 x 37 x 144.7 cm   XL: 78 x 37 x 157.2 cm
Propeller standard	13 splines, (4 1/2" gear case) Evinrude/Johnson/Selva 40-140 HP
Propeller shaft torque	270 Nm
Propeller shaft speed	1,767 – 2,640 rpm
Weight (without supply lines)	L: 120 kg   XL: 126 kg
Trim / Tilt system	Hydraulic
Max. trim angle	-4° – 12°
Max. tilting angle	12° – 65°
Max. steering angle	±28°
Water cooling	Dual-circuit cooling, max. 35° C input temperature
External cooling circuit	Electric pump
Communication	CAN
Protection class	IP65
Max. drive efficiency	95 % (motor: 97 %, inverter: 98 %)

- Integration and maintenance can be carried out easily because no high voltage safety measures are needed.
- ARIES combines motor and controller in a single unit. This compact solution is easily integrated into boats, which reduces cabling efforts and saves installation space.
- Low-voltage components make better use of battery energy. Measured system efficiency of more than 95 % at the optimum operating point. System efficiency is the combined efficiency of the e-motor (97 %) and controller (98 %).

