

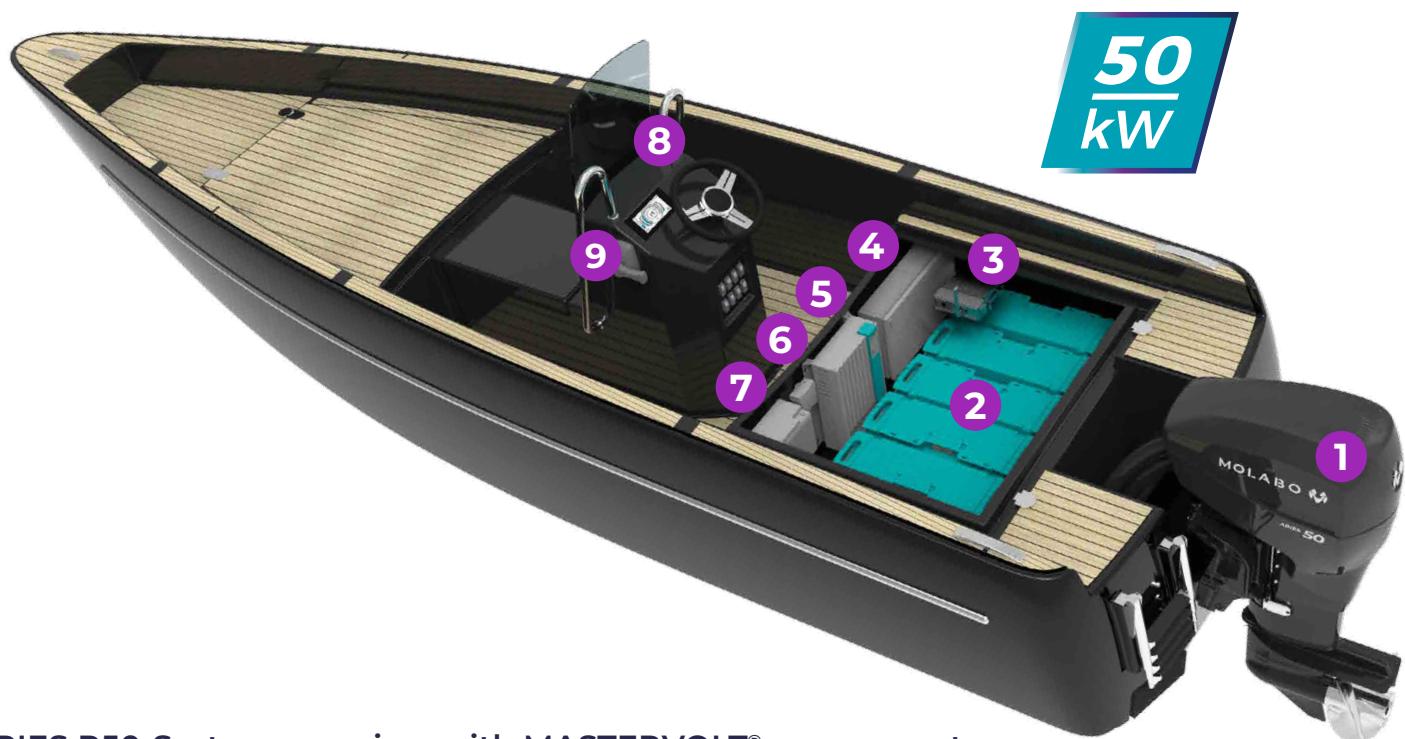
ARIES R50

ELECTRIC OUTBOARD SYSTEM

For recreational and work boats up to 8 m (26 ft) as a single installation, also available for larger boats as a twin installation

THE WORLD'S MOST
POWERFUL
48 V
SAFE-TO-TOUCH
ELECTRIC DRIVE

- No high-voltage safety measures necessary
- Motor + controller in one unit
- Modular LFP battery banks:
 - MASTERVOLT® – compact and powerful
36 kWh | 48 kWh | 60 kWh
 - VICTRON ENERGY® – long range and lower costs
45 kWh | 60 kWh | 90 kWh | 120 kWh | 135 kWh
- High system efficiency of 94 % (97 % motor, 97 % inverter)
- Plug & play system through prewired MOLAConnect box
- Comprehensive service
- Extended worldwide warranty



ARIES R50 System overview with **MASTERVOLT®** components

- 1 **ARIES R50**
Electric Outboard (50 kW)
- 2 **MASTERVOLT® LFP battery bank** –
Modular, plug & play lithium system
- 3 **MOLALink IoT Gateway** –
Remote monitoring and diagnostics
- 4 **MOLAConnect DC distribution** –
Safe, smart power distribution
- 5 **MASTERVOLT® Charger** –
Modular and easy to install
- 6 **CAN-Bus Gateway** –
For system-wide communication
- 7 **12 V Battery** – Required but not included
- 8 **Display** – Real-time system feedback
- 9 **Throttle Control** – Choose from side-mount or top-mount configurations

Specifications ARIES R50

Motor type	PM-assisted synchronous reluctance motor	Max. propeller shaft speed	2,640 rpm
Nominal power	50 kW	Weight (with DC cables)	L: 150 kg XL: 155 kg
Nominal voltage	48 V (operating range: 44–54 V)	Trim / Tilt system	Hydraulic
Max. voltage	58 V	Max. trim angle	-4° – 12°
Logic supply voltage	12 V	Max. tilting angle	12° – 65°
Shaft length	L: 20" / 51 cm XL: 25" / 63,5 cm	Max. steering angle	±28°
Dimensions (L x W x H)	L: 78 x 37 x 144,7 cm XL: 78 x 37 x 157,2 cm	Water cooling	Dual-circuit cooling, max. 35° C input temperature
Color	Black, white	External cooling circuit	Electric pump
Propeller standard	13 splines, (4 1/2" gear case) Evinrude/Johnson/Selva 40-140 hp	Communication	CAN-Bus
Propeller shaft torque	270 Nm	Max. drive efficiency	94% (97% motor, 97 % inverter)
Nominal propeller shaft speed	1,767 rpm	Protection class	IP65

Range tables ARIES R50

Range ARIES R50 with 36 kWh

LFP battery bank (6 x 6 kWh modules)*

	Speed in knots (km/h)	Running time in hh:mm	Range in nm (km)
Eco	6.0 (11.1)	07:15	up to 43.5 (80.6)
Cruise	13.5 (25)	01:20	up to 18.1 (33.5)
Full Speed	24.5 (45.4)	00:30	up to 12.6 (23.4)

* Measured on motorboat, length: 6.05 m, weight approx. 1,350 kg.
Depending on boat model, load, propeller and local conditions;
speed and range information without guarantee.

Range ARIES R50 with 60 kWh

LFP battery bank (10 x 6 kWh modules)*

	Speed in knots (km/h)	Running time in hh:mm	Range in nm (km)
Eco	5.6 (10.3)	12:06	up to 67.3 (124.6)
Cruise	12.6 (23.4)	02:13	up to 28.2 (52.2)
Full Speed	22.7 (42.1)	00:51	up to 19.5 (36.1)

* Measured on motorboat, length: 6.05 m, weight approx. 1,590 kg.
Depending on boat model, load, propeller and local conditions;
speed and range information without guarantee.

Range ARIES R50 with 48 kWh

LFP battery bank (8 x 6 kWh modules)*

	Speed in knots (km/h)	Running time in hh:mm	Range in nm (km)
Eco	5.8 (10.7)	09:40	up to 55.9 (103.6)
Cruise	13.1 (24.2)	01:47	up to 23.3 (43.2)
Full Speed	23.7 (43.8)	00:41	up to 16.2 (30.1)

* Measured on motorboat, length: 6.05 m, weight approx. 1,470 kg.
Depending on boat model, load, propeller and local conditions;
speed and range information without guarantee.

Shortest charging time 20 - 80 % with three chargers of 3 kW each*

36 kWh battery bank: approx. 2.2 hours

48 kWh battery bank: approx. 2.9 hours

60 kWh battery bank: approx. 3.7 hours

* Calculation of the shortest charging time refers to the charging process of 80 % of the nominal capacity.

