



THE SAFE & POWERFUL CHOICE

ARIES: Proven electric drive systems with safe-to-touch technology for recreational and commercial applications



A Company of the
Hechinger
Group
Making things work.

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



Boris Herrmann, Team Malizia:

“We asked ourselves:
How can we race around
the world on a high-tech yacht
without the use of fossil fuels
and at the same time improve
performance?

This system is our answer.
It's lighter, cleaner, and lets us
maximize our renewable
sources of energy.

This is one of the most
exciting upgrades to the
boat and we are proud
to lead that step towards more
sustainable offshore racing.”

© Foto Boris Herrmann: Andreas Lindlahr



© Foto Yacht: Marin Le Roux I polaRYSE

THE MOLABO® MISSION

At MOLABO, our mission is to advance sustainable mobility with safe-to-touch, low-voltage electric solutions.

ARIES isn't just a product, it represents a fundamental shift in marine propulsion. As the first electric drive to deliver high performance at a safe-to-touch 48 V, ARIES is transforming how boats are powered.

But performance isn't everything. MOLABO is deeply committed to environmental and social responsibility. All mechanical components for ARIES are sourced in Europe, supporting local industry and meeting the EU's rigorous emissions and energy standards.

When powered by green electricity, each ARIES 50 system can prevent up to 1.4 metric tons of CO₂ emissions for every 100 hours of operation compared to a combustion engine using roughly 6 liters of petrol per hour.

MOLABO's innovations have earned widespread industry recognition, including Electric & Hybrid Marine Awards for New Propulsion Technology of the Year in both 2023 and 2024.

And as of 2025, MOLABO proudly supports Team Malizia as a technical partner, powering their mission, “A Race We Must Win – Climate Action Now!” and proving that zero-emission propulsion can meet the toughest offshore challenges.

Exchange ideas with us:

- www.linkedin.com/company/molabo
- www.facebook.com/molabogmbh
- www.youtube.com/molabogmbh
- www.x.com/molabo48v
- www.instagram.com/molabo_com

ARIES® R50 L/XL Outboard Motor



50 kW
Nominal power

120 kg
Weight (without DC cables)

48 v
Nominal voltage

1,767 rpm
Nominal prop shaft speed

ARIES® i30/i50 Inboard Motor



30/50 kW
Nominal power

64 kg
Weight (without DC cables)

48 v
Nominal voltage

653 rpm
Nominal prop shaft speed (i30)

1,087 rpm
Nominal prop shaft speed (i50)



Victory - Tender 606

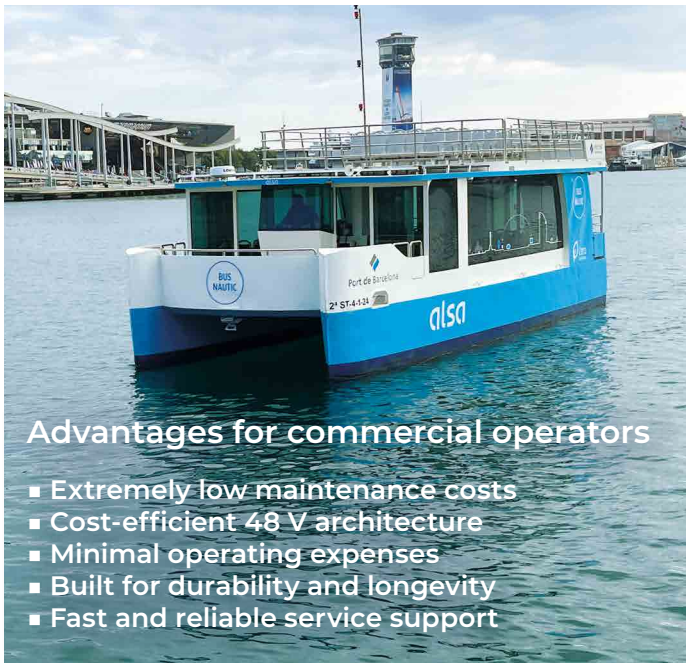
THE SAFE & POWERFUL CHOICE

MOLABO's patented Intelligent Stator Cage Drive (ISCAD®) technology delivers high power at safe-to-touch 48 V.

Why boatbuilders and shipyards choose ARIES

- **Flexibility and lower costs:**
Installation and maintenance can be carried out by any certified shipyard, with no high-voltage work zone or specialists required.
- **Fast installation:**
Thanks to the pre-wired MOLAConnect Box and modular MOLABO battery system, setup takes as little as one day, minimizing downtime and labor costs.
- **Full-service support:**
MOLABO provides a dedicated service team that provides assistance within 24 hours. If remote support isn't sufficient, on-site field service ensures your operations run smoothly.
- **Space-saving, modular batteries:**
Install modules upright or flat to fit tight spaces and optimize weight balance. Multiple battery options are available to meet your range and runtime requirements.
- **Integrated, all-in-one system:**
Motor, battery, software, and controls all from a single source. Fully matched components simplify purchasing, integration, and technical support.

➔ **Guaranteed reliability – backed by MOLABO®:**
We stand behind our technology. That's why we guarantee our battery systems will retain at least 80 % of their original capacity for at least 5 years.



Advantages for commercial operators

- Extremely low maintenance costs
- Cost-efficient 48 V architecture
- Minimal operating expenses
- Built for durability and longevity
- Fast and reliable service support



Advantages for recreational boaters

- Global customer service
- Always up-to-date software
- Extended international warranty
- Clean, cost-effective operation
- Customizable range and configurations

High power at low voltage. ISCAD® makes it possible.

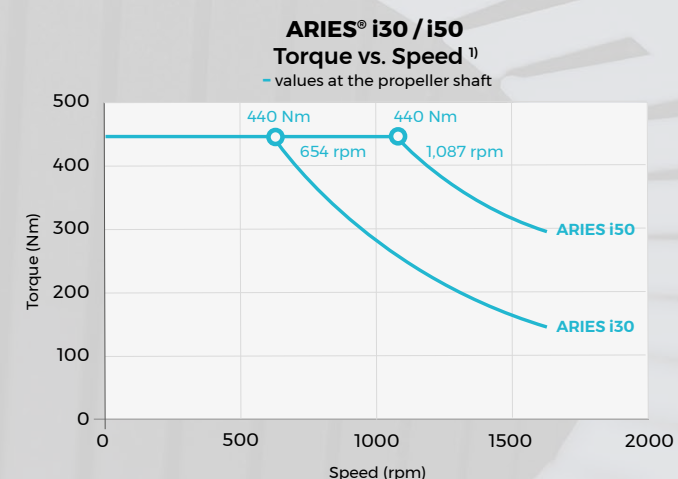
At the heart of MOLABO's innovation is the Intelligent Stator Cage Drive (ISCAD®), a patented electric motor technology that delivers high continuous power at a touch-safe 48 V.

Instead of complex coil windings, ISCAD uses simple, parallel conductive rods arranged in a cage-like structure. This innovative stator design enables a highly parallelized current path from battery to inverter to motor, minimizing losses and enabling the system to handle the high AC phase currents required at low voltage.

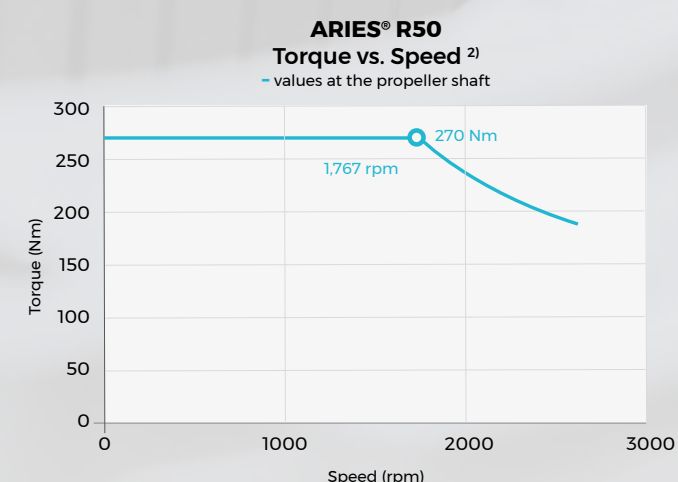
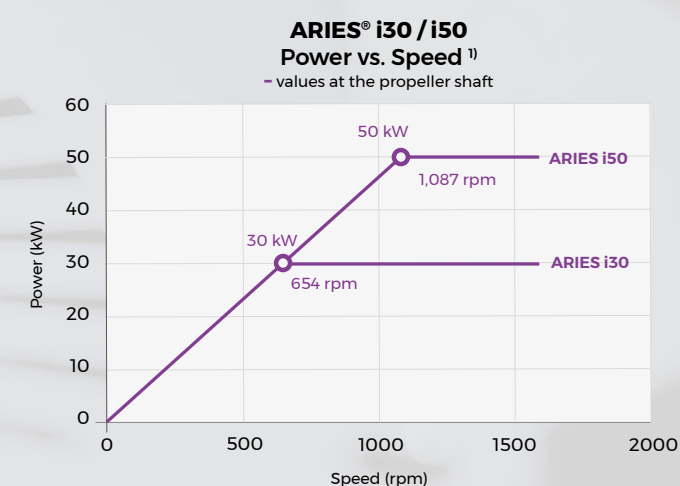
Thanks to its low induced voltage, ARIES drives can utilize low-voltage semiconductors that operate more efficiently under partial loads than traditional high-voltage systems. This translates to improved battery life and system reliability, plus reduced component costs.

ARIES drives deliver smooth, quiet, and powerful acceleration, all powered by MOLABO's uniquely engineered stator cage.

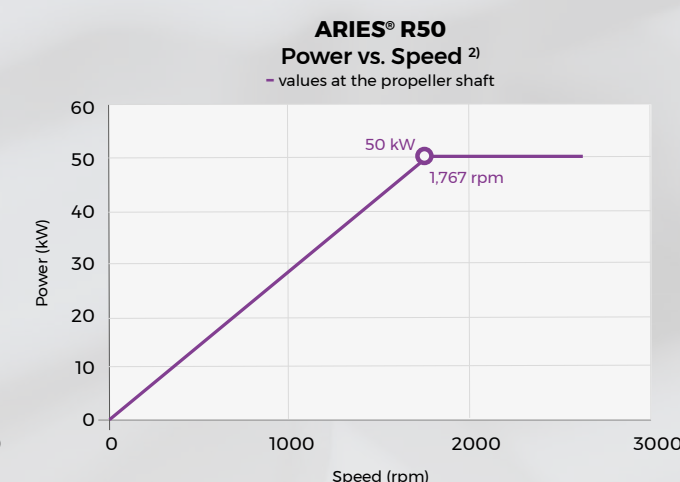
- Easy to install and maintain by any shipyard due to the touch-safe voltage
- Eliminates need for specialized tools, work areas, and equipment
- No costly delays waiting for a high-voltage certified technician



¹⁾ Diagrams refer to motor with 4:1 reduction ratio



²⁾ Diagrams refer to motor with 2.46:1 reduction ratio



ARIES® R50 L/XL Outboard Motor

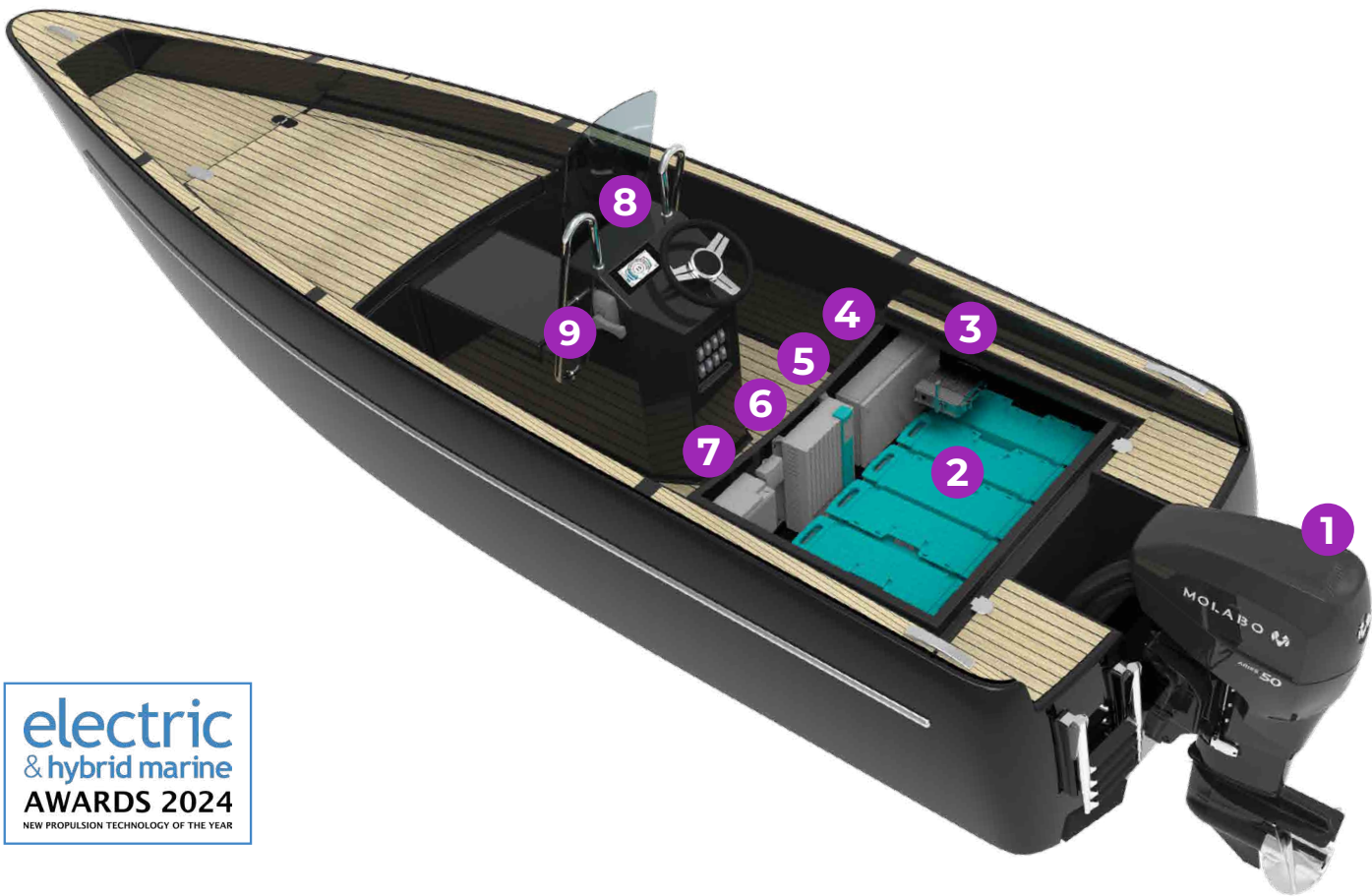
Clean, quiet power for boats up to 8m (26 ft).
For larger vessels, twin or quad installation options are available.

The ARIES R50 is an advanced 50 kW electric outboard motor designed for recreational and commercial vessels up to 8 meters.

As the heart of MOLABO’s modular 48 V system, it delivers reliable performance, easy installation, and intuitive operation.

A Complete Plug & Play System

The ARIES® R50 integrates seamlessly with a full range of preconfigured 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

MADE IN 
GERMANY

Motor type	PM-assisted synchronous reluctance motor
Rated mechanical power	50 kW
Nominal voltage	48 V (operating range: 44–54 V)
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
Color	Black or white
Standard propeller	13 splines, (4 1/2" gear case) Evinrude/Johnson/Selva 40-140 hp
Propeller rotation direction	Clockwise counterclockwise
Propeller shaft torque	270 Nm
Nominal propeller shaft speed	1,767 rpm
Max. propeller shaft speed	2,640 rpm
Weight (with DC cables)	L: 150 kg XL: 155 kg
Trim / Tilt system	Hydraulic
Trim range	-4° – 12°
Tilt range	12° – 65°
Steering angle	±28°
Cooling system	Dual-circuit cooling, max. 35° C input temperature
External cooling circuit	Electric pump
Communication	CAN-Bus
Max. drive efficiency	Up to 94 % (motor and inverter efficiency 97 % each)
Protection class	IP65



System weight ARIES® R50 with 36 kWh MASTERVOLT® battery bank	
Motor ARIES® R50 L with DC cables	150.00 kg
MOLACONNECT	17.00 kg
MOLALink	0.80 kg
Battery bank	280.20 kg
Charger	7.70 kg
Distribution devices	13.00 kg
7" display	0.75 kg
Throttle	2.60 kg
Total weight	472.05 kg

System weight ARIES® R50 with 45 kWh VICTRON® ENERGY battery bank	
Motor ARIES® R50 L with DC cables	150.00 kg
MOLACONNECT S	2.50 kg
MOLALink	0.80 kg
Battery bank	312.00 kg
Charger	11.00 kg
Distribution devices, BMS	31.40 kg
7" display	0.75 kg
Throttle	2.60 kg
Total weight	511.05 kg

The ARIES® Inboard is the Heart of a System Solution

30 kW: For motorboats up to 8 m (26 ft) and displacement boats up to 10 m (33 ft) or 7 t.
50 kW: For motorboats up to 12 m (40 ft) and displacement boats up to 15 m (50 ft) or 12 t.
For larger vessels, twin or quad installation options are available.

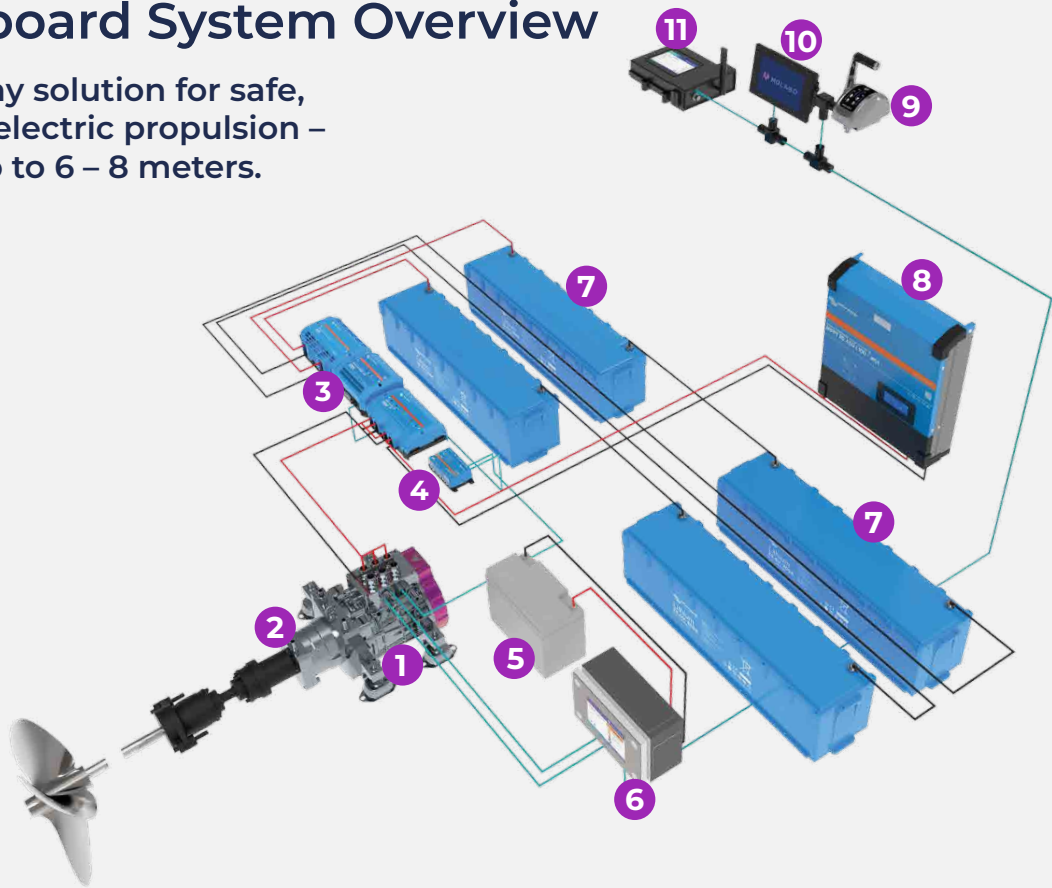
The ARIES Inboard delivers reliable performance, easy installation, and intuitive operation. It is compatible with a complete range of fully integrated components for a ready-to-install electric propulsion solution from a single source.

The battery capacity as well as the number of chargers (1 or 3) can be selected on a modular basis.

➔ Benefit from a smaller and lighter system and lower costs

ARIES® i30 Inboard System Overview

A complete plug & play solution for safe, efficient low-voltage electric propulsion – designed for boats up to 6 – 8 meters.



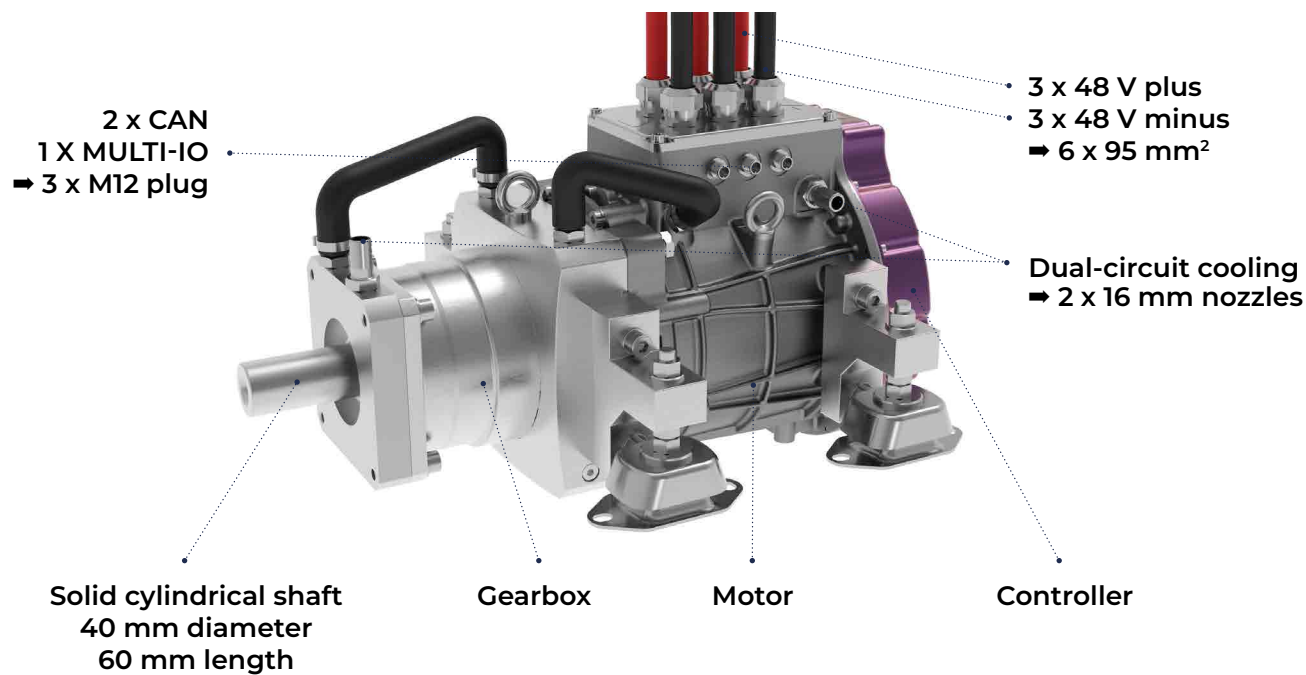
System Components:

- 1 ARIES® i30 Electric Inboard Motor** – 30 kW rated power, 48 V safe-to-touch voltage
- 2 Planetary Gearbox (4:1)** – Compact and efficient torque conversion
- 3 VICTRON ENERGY® Battery Management & DC Distribution** – Reliable control and safety for energy flow
- 4 VICTRON ENERGY® Battery Controller** – Advanced monitoring of system health and performance
- 5 12 V Battery** (not included) – System start-up
- 6 MOLACONNECT S** – Central connection hub for streamlined installation
- 7 VICTRON ENERGY® LFP Lithium Battery Bank** – Modular configuration for flexible storage and space optimization
- 8 VICTRON ENERGY® Charger** – Plug & play charging solution for efficient energy replenishment
- 9 Throttle Control** – Available in side-mount or top-mount options
- 10 Display Unit** – Real-time performance data and system status
- 11 MOLALink (IoT Gateway)** – Cloud-connected data interface for remote diagnostics and updates

ARIES® i30 and i50 Inboard Motors

MADE IN  GERMANY

Connections



Specifications

	ARIES® i30	ARIES® i50
Nominal mechanical power	30 kW	50 kW
Nominal voltage	48 V (44–54 V operating range)	
Max. voltage	58 V	
Logic supply voltage	12 V	
Motor weight (incl. controller)	44 kg	
Gearbox weight (4:1)	15 kg	
Nominal speed (motor)	2,610 rpm	4,350 rpm
Nominal speed with 4:1 gearbox	653 rpm	1,087 rpm
Max. speed (motor)	6,500 rpm	
Nominal torque	110 Nm (440 Nm with 4:1 gearbox)	
Max. speed with 4:1 gearbox	1,625 rpm	
Motor dimensions (incl. controller)	Ø 254 mm; L: 265.5 mm	
Motor dimensions (incl. gearbox)	Ø 254 mm; L: 457.5 mm	
Motor type	PM-assisted synchronous reluctance motor	
Communication	CAN bus	
Protection class	IP67	
Max. efficiency	94 % overall (97 % motor, 97 % inverter)	
Cooling system	Dual-circuit water cooling (max. 35 °C inlet temp)	

Flexible Choice of Battery Modules

Molabo provides everything you need to build your optimal electric drive system.

Energy storage is crucial when building an electric boat. We offer batteries that prioritize cost-effectiveness and overall capacity for larger vessels, and ultra-compact batteries for weight-sensitive applications.

Because every boat is unique, we provide flexible options to meet your individual needs. Choose

from two battery suppliers and a range of modular battery capacities tailored to our 30 kW and 50 kW systems.

Our compact battery modules can be installed upright or horizontally, ensuring optimal weight distribution and space efficiency – even in the tightest motor compartments.

VICTRON ENERGY® – for long range and lower costs



For those prioritizing cost-effective performance, the VICTRON ENERGY® battery modules offer exceptional value per kWh. These compact and lightweight LFP battery banks are ideal for larger vessels or those with extended range requirements.

Battery capacity selectable – 30 kW system

- 30 kWh (4 x 7.6 kWh modules)
- 45 kWh (6 x 7.6 kWh modules)
- Further capacities on request

Battery capacity selectable – 50 kW system

- 45 kWh (6 x 7.6 kWh modules)
- 60 kWh (12 x 5.1 kWh modules)
- 90 kWh (12 x 7.6 kWh modules)
- 120 kWh (24 x 5.1 kWh modules)
- 135 kWh (18 x 7.6 kWh modules)
- Further capacities on request

MASTERVOLT® – compact and powerful



Experience maximum power density with MASTERVOLT® battery modules. These battery banks feature a high discharge rate of 2.2 C, enabling high – performance operation and the possibility of a lighter overall setup with fewer modules installed.

Battery capacity selectable – 30 kW system

- 24 kWh (4 x 6 kWh modules)
- 36 kWh (6 x 6 kWh modules)

Battery capacity selectable – 50 kW system

- 36 kWh (6 x 6 kWh modules)
- 48 kWh (8 x 6 kWh modules)
- 60 kWh (10 x 6 kWh modules)



ARIES® Multi-Drive Configuration

For larger vessels or catamarans, multiple drives can be interconnected and controlled seamlessly via software. Twin throttle control enables intuitive operation of twin or quad-motor configurations with up to two motors per side.

The synchronized control system ensures perfect coordination, smooth maneuvering, and maximum efficiency

Crew Transport Vessel (CTV) – Electrifying Efficiency in Harbours

LOA Vessel	14.6 m
WLW Vessel	4.25 m
Weight Vessel (without motor)	7,500 kg
Motor	4 x ARIES R50 outboard
Battery Bank	Mastervolt® 240 kWh
Top Speed	20 kn
Range	22 nm at 12 kn with 2 motors

Electric Ferry in Barcelona – Sustainable Urban Mobility

Length	14.7 m
Width	6.5 m
Battery Bank	Mastervolt® 216 kWh
Motor	2 x ARIES i50 inboard
Max. Persons	85





Parallel Hybrid: Fireboat Rescue 1500

Parallel Hybrid Integration with ARIES®: Flexible Power for Demanding Applications

Example: Dat Füürschipp – Kiel Fire Brigade Lifeboat

For large sailing yachts, powerful motorboats, workboats, or ferries, the ARIES i50 can be integrated into a parallel hybrid propulsion system alongside a conventional combustion engine. Both systems share a common driveline, allowing three flexible modes of operation:

- **Electric mode:** Quiet, zero-emission cruising in harbours or low-speed zones
- **Combustion mode:** Long-range, high-speed travel using the internal combustion engine
- **Hybrid mode:** Combined electric and diesel power for added thrust, improved efficiency, and system redundancy



Serial Hybrid: Earthling E-40 Power Catamaran

Serial Hybrid Integration with ARIES®: Smart Power for Extended Electric Cruising

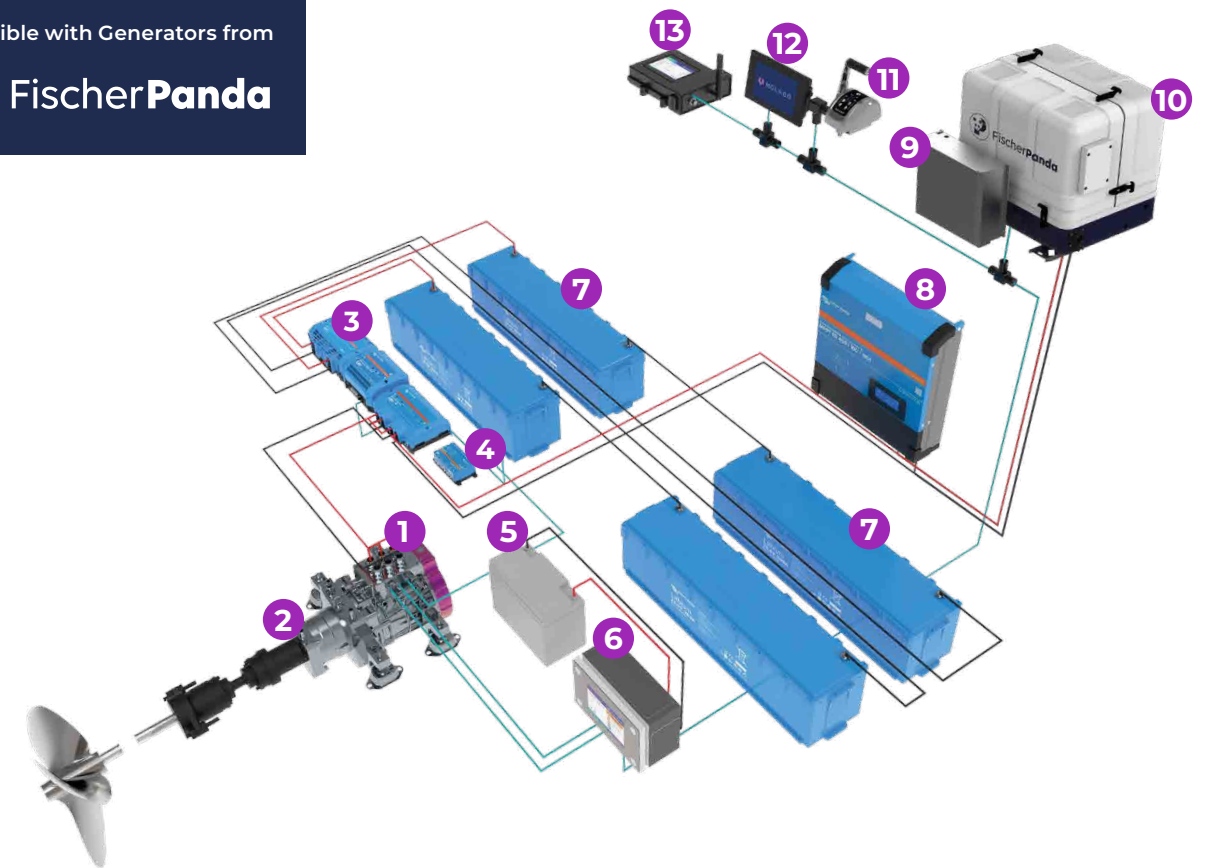
Example: Earthling – Electric Catamaran Integration

In a serial hybrid setup, the ARIES i50 electric inboard motor powers the vessel directly, while an onboard generator functions purely as a range extender. Energy for propulsion is drawn from lithium-ion batteries, which can be charged via solar panels, hydrogenation, or the range extender generator when needed.

This architecture combines silent cruising with energy flexibility and extended range – all while minimizing environmental impact.

Advantages

- Silent, zero-emission cruising with direct electric propulsion
- Generator supplies backup power and extended range
- Energy generation via solar and hydrogenation (recuperation while sailing)
- Smart power management for optimal efficiency and reduced fuel consumption



- | | |
|--|--------------------------|
| ① ARIES® Electric Inboard Motor | ⑧ Charger |
| ② Planetary Gearbox (4:1) | ⑨ Diode Block |
| ③ Battery Management & DC Distribution | ⑩ Generator |
| ④ Battery Controller | ⑪ Throttle Control |
| ⑤ 12 V Battery (not included) | ⑫ Display Unit |
| ⑥ MOLACONNECT S | ⑬ MOLALink (IoT Gateway) |
| ⑦ LFP Lithium Battery Bank | |



Serial Hybrid System Innovation

Example: Malizia Seaexplorer

In Malizia Seaexplorer's serial hybrid system, propulsion comes exclusively from an electric motor – while a compact diesel generator charges the batteries when needed. By separating energy generation from propulsion, the system achieves unmatched flexibility and efficiency compared to traditional drivetrains, where a 45 hp diesel engine handled both tasks.

Built around a high-efficiency generator and energy-dense batteries, this innovative setup replaces bulky diesel engines with a modern, lightweight onboard energy grid.

At its heart, the MOLABO electric inboard motor delivers all the power needed for precise docking and maneuvering – with zero-emission operation during training sessions and port maneuvers.

Advantages at a glance

- **Weight optimization:** Up to 111 kg lighter than 45 hp diesel setups for better performance
- **Space optimization:** Motor is 75 % smaller than a combustion engine, freeing up cockpit space
- **Emission - free operation:** Increased battery capacity enables full use of renewable power

Compatible with Generators from



© Photos: Flore Hartout

Formula 4 Goes Electric – and Breaks Records

In a world-first for powerboat racing, a fully electric Formula 4 race boat retrofitted with a new electric conversion kit powered by the MOLABO ARIES 50 drive set a UIM-certified world speed record of 91.5 km/h at the Mons Water Grand Prix.

Developed in collaboration with Team Tech-out E-Racing, Protenergies and Kaiser Bootsmannufaktur, the project demonstrates that safe-to-touch, low-voltage propulsion can deliver true race performance under real competition conditions.

This milestone proves that traditional combustion-powered race boats can be sustainably converted

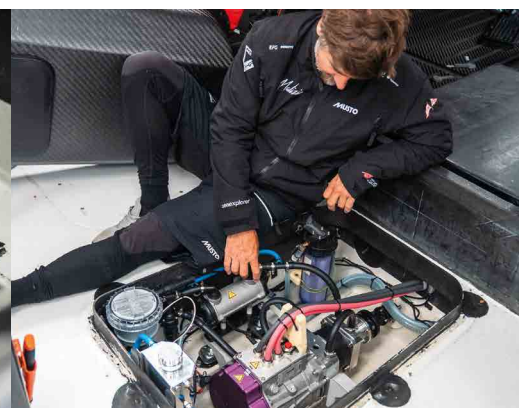
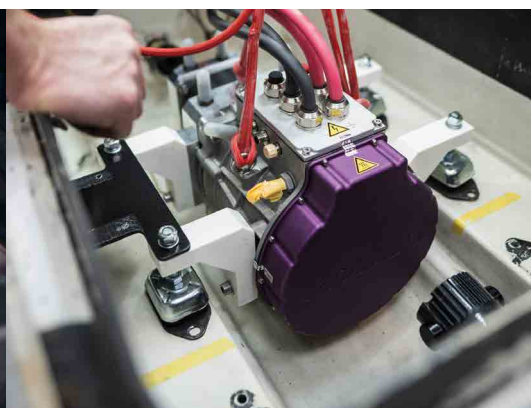
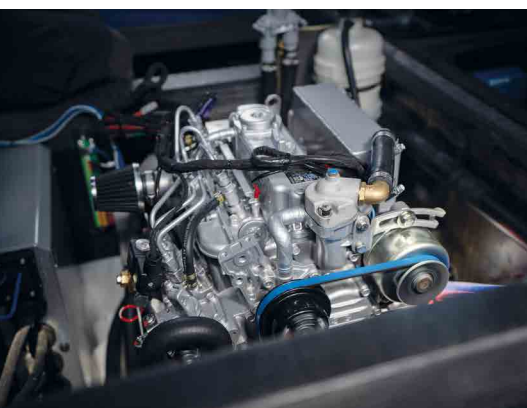
to electric without compromising speed, safety, or control – paving the way for a cleaner, faster future in powerboat racing.

Advantages at a glance

- Low-voltage design protects driver and rescue divers in the event of a capsizing
- Less noise and vibrations for the driver
- More environmental friendly and no fossil fuels
- Decrease of power output for entry-level drivers possible
- Quick-swap of batteries

Generator:
Fischer Panda AGT 11000, 10.9 kW,
HVO-compatible

Electric Motor:
MOLABO ARIES i50 – 50 kW, 48V, integrated controller & gearbox



System Weights ARIES® i30/i50



System weight ARIES® i30 with 24 kWh MASTERVOLT® battery bank	
Motor ARIES i50 incl. DC cable and mounting set	73.00 kg
MOLACo ⁿⁿ ect	17.00 kg
MOLALink	0.80 kg
Battery bank	186,80 kg
Charger	7.70 kg
Pumps, heat exchanger etc.	6.05 kg
Distribution devices, cables etc.	9.20 kg
7" display	0.75 kg
Throttle	2.60 kg
Total weight	303,90 kg

System weight ARIES® i50 with 36 kWh MASTERVOLT® battery bank	
Motor ARIES i30 incl. DC cable and mounting set	73.00 kg
MOLACo ⁿⁿ ect	17.00 kg
MOLALink	0.80 kg
Battery bank	280.20 kg
Charger	7.70 kg
Pumps, heat exchanger etc.	6.05 kg
Distribution devices, cables etc.	7.00 kg
7" display	0.75 kg
Throttle	2.60 kg
Total weight	395.10 kg

System weight ARIES® i30 with 30 kWh VICTRON ENERGY® battery bank	
Motor ARIES i30 incl. DC cable and mounting set	73.00 kg
MOLACo ⁿⁿ ect S	2.50 kg
MOLALink	0.80 kg
Battery bank	208.00 kg
Charger	11.00 kg
Pumps, heat exchanger etc.	6,05 kg
Distribution devices, BMS, cables etc.	11,70 kg
7" display	0.75 kg
Throttle	2.60 kg
Total weight	316.40 kg

System weight ARIES® i50 with 45 kWh VICTRON ENERGY® battery bank	
Motor ARIES i50 incl. DC cable and mounting set	73.00 kg
MOLACo ⁿⁿ ect S	2.50 kg
MOLALink	0.80 kg
Battery bank	312.00 kg
Charger	11.00 kg
Pumps, heat exchanger etc.	6.05 kg
Distribution devices, BMS, cables etc.	23.65 kg
7" display	0.75 kg
Throttle	2.60 kg
Total weight	432.35 kg

Range Estimates R50/i30



ARIES® R50 Outboard

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. Speed and range estimates are not guaranteed. Range may vary based on boat type, weight, propeller choice, wind, and currents.

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. Speed and range estimates are not guaranteed. Range may vary based on boat type, weight, propeller choice, wind, and currents.

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. Speed and range estimates are not guaranteed. Range may vary based on boat type, weight, propeller choice, wind, and currents.

ARIES i30® Inboard

With 30 kWh LFP battery bank (4 x 7.6 kWh modules)**

	Speed in knots (km/h)	Running time in hh:mm	Range in nm (km)
Eco	6.5 (12)	06:00	up to 39.0 (72.2)
Full Speed	17.2 (31.9)	00:44	up to 12.7 (23.5)

** Measured on motorboat, length: 6.05 m, weight approx. 1,270 kg. Speed and range estimates are not guaranteed. Range may vary based on boat type, weight, propeller choice, wind, and currents.

With 45 kWh LFP battery bank (6 x 7.6 kWh modules)**

	Speed in knots (km/h)	Running time in hh:mm	Range in nm (km)
Eco	6.1 (11.3)	09:00	up to 54.9 (101.7)
Full Speed	16.8 (31.1)	01:06	up to 18.6 (34.5)

** Measured on motorboat, length: 6.05 m, weight approx. 1,370 kg. Speed and range estimates are not guaranteed. Range may vary based on boat type, weight, propeller choice, wind, and currents.

Charging Times

Charging times (20 – 80 %) with three 3 kW chargers*
30 kWh battery bank: approx. 1.5 hours
36 kWh battery bank: approx. 2.2 hours
45 kWh battery bank: approx. 2.2 hours
48 kWh battery bank: approx. 2.9 hours
60 kWh battery bank: approx. 3.7 hours

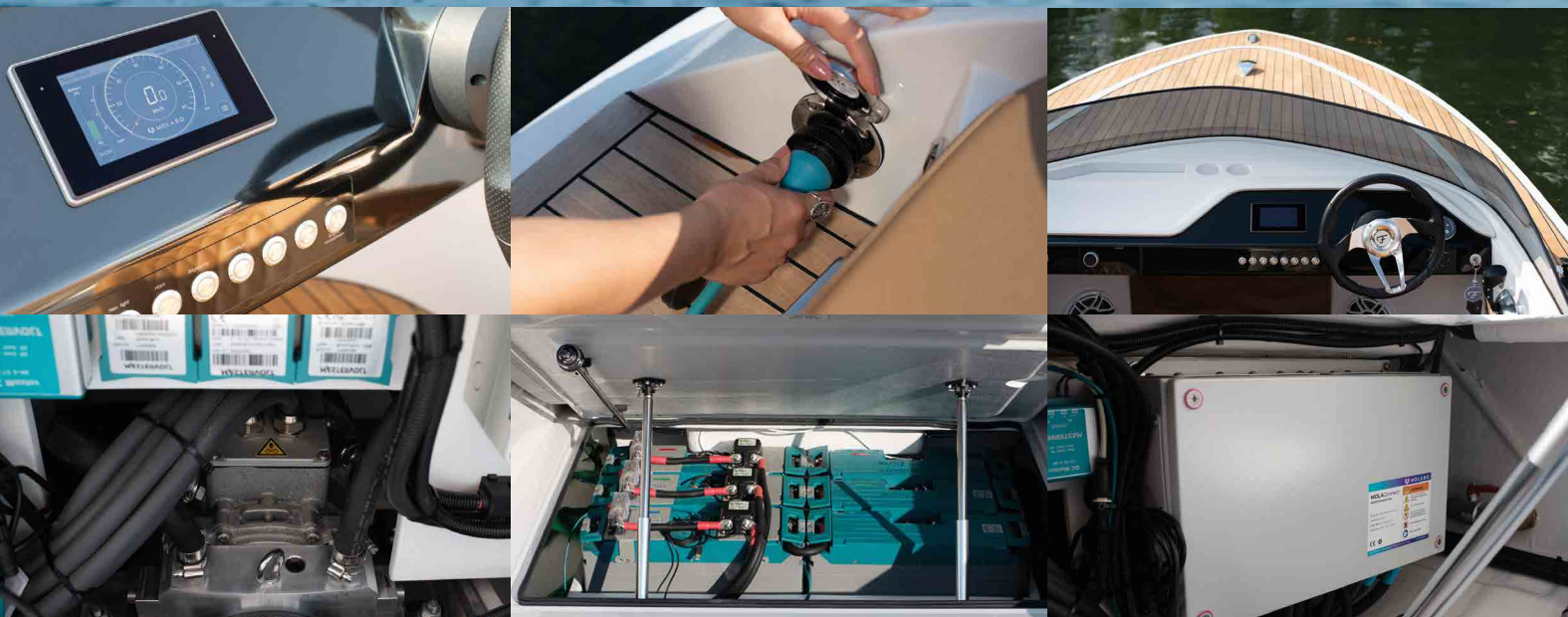
* Charging time estimates are based on 60 % of nominal capacity and may vary depending on system configuration and operating conditions.

ARIES

THE SAFE & POWERFUL CHOICE



Frauscher - 650 Alassio



Specifications System Components

VICTRON ENERGY® LFP Lithium Battery 200 Ah or 300 Ah/25,6 V NG

- Plug & play
- Long service life and maximum safety
- 2,500 cycles, 80 % DoD
- Battery Management System (BMS)
- LiFePO4 chemistry
- Parallel connection of up to 384 kWh
- Weight
 - 5.1 kWh module 37 kg
 - 7.6 kWh module 52 kg
- Dimensions
 - 5.1 kWh module 648 x 235 x 162 mm
 - 7.6 kWh module 841 x 206 x 205 mm
- Protection class IP65
- Global service

VICTRON ENERGY® Multi RS Solar 48/6000

- Plug & Play integration
- Choice of 1 or 3 chargers
- Power of 3.5 kW (16 A AC input current)
- Charging current can be reduced for connections with lower power
- 230 V inverter included (for stand-alone power supply on board)
- Protection class IP22
- Weight 12.2 kg

MASTERVOLT® LFP Battery MLI Ultra 24/6000

- Plug & play - MOLABO preconfigured
- Long service life and maximum safety
- 3,500 cycles, 80 % DOD
- Battery Management System (BMS)
- LiFePO4 chemistry
- 2.2-C discharge rate
- Parallel connection of up to 5 x 2 modules
- MasterBus communication interface
- Dimensions 622 x 197 x 355 mm
- Weight 46.7 kg (1 x 6 kWh module)
- Protection class IP65
- Global service

MASTERVOLT® Mass 48/50 charger

- Plug & play
- 1 or 3 chargers connected in parallel
- Charging power 3 kW
- Nominal output voltage 48 V
- Total charging current 50 A at 57 V
- Nominal input voltage 230 V (180-265 V), 50/60 Hz
- Weight 7.7 kg
- Protection class IP23

MOLAConnect-Box

- Plug & play
- Pre-assembled screw points for e.g. 12 V chargers and fuses
- Clamp connection e.g. for key switch, light and emergency stop
- 48 V DC distribution, charging and discharging
- Soft start / pre-charge of the capacitors
- Thermal management (independent control of the water pumps)
- Interface MOLABus to MasterBus
- Dimensions 500 x 300 x 120 mm
- Weight 15 kg
- Protection class IP23

MOLAConnect-Box S

- Plug & Play
- Incl. key switch, emergency stop switch and cabling
- Thermal management (independent control of the water pumps)
- Dimensions 200 x 150 x 80 mm
- Weight 2.5 kg
- Protection class IP66

MOLALink (IoT-Modul)

- Integrated SIM card
- Remote system configuration
- Remote error and system analysis
- Remote software updates
- Protection class IP67

5" or 7" TFT graphic display

- LED backlight
- Automatic brightness control
- Capacitive touch screen
- MOLABus
- Protection class IP66

Throttle

- Electronic throttle available as
 - Top mount single
 - Top mount twin
 - Side mount starboard, center console
 - Side mount starboard, cockpit
- CAN bus integrated
- CMD Select
- Harbour mode
- Protection class IP67



Dockmate remote controlled docking system (optional)

MOLABO® Service – Reliable Support and Global Coverage

At MOLABO, we understand that exceptional service is just as important as cutting-edge technology. That's why we offer comprehensive, responsive support to keep your electric propulsion system running smoothly, wherever you are.



Remote monitoring and updates via MOLALink (IoT gateway):
Our service team is there for you at all times and can fix your hardware and software problems conveniently over the internet.



On-site service:
A MOLABO technician will visit your company to carry out maintenance or repair work directly.

Our service offer includes:

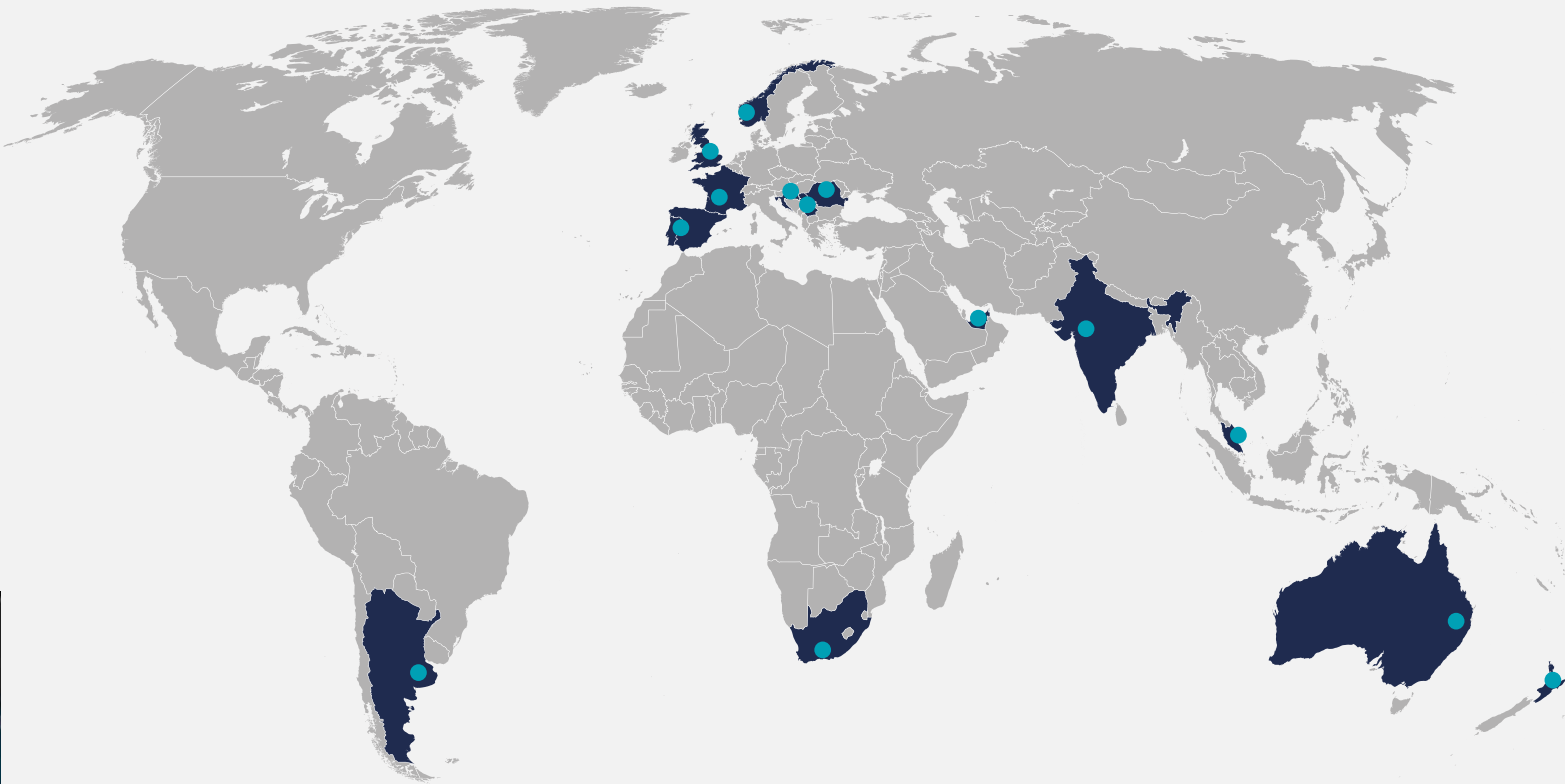
- **Expert technical support**
Whether you're commissioning a new system, performing routine maintenance, or troubleshooting a complex issue, our experienced team is here to quickly and competently assist you.
- **Remote diagnostics & updates**
Many issues can be resolved remotely via secure access. This allows us to minimize downtime and maximize reliability, deliver fast solutions, install updates, and implement performance improvements without delay.
- **Training & education**
We offer a full suite of training programs to help you build in-house expertise on our systems and stay up to date with the latest features and best practices.
- **Extended worldwide warranty**
With certified installation and regular system inspections, MOLABO offers a 5-year extended battery warranty guaranteeing 80 % or more of the battery's original capacity. Plus, our comprehensive manufacturer's warranty applies across the entire system.

Need help? We're here for you.
MOLABO is your partner every step of the way. Count on us for prompt service, clear answers, and expert guidance, wherever your voyage takes you.

Telephone hotline: +49 89 179 251 079
E-mail support: service@molabo.com



MOLABO® Service Partner Network



For the locations of our installation & service partners, see www.molabo.com/en/dealers-partners

Get in touch

Whether you're planning a new project or seeking expert guidance, our knowledgeable team is here to help. We're happy to provide detailed information, technical support, or tailored advice based on your needs.

MOLABO – Your partner in innovative low-voltage electric mobility.



Boat: Earthling E-40, Power Hybrid Catamaran



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