

ARIES i30

ELECTRIC INBOARD SYSTEM

For motorboats up to 8 m (26 ft) and displacement boats up to 10 m (33 ft) or 7 t.

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

- No high-voltage safety measures necessary

- Modular LFP battery banks:
 - MASTERVOLT® – compact and powerful

24 kWh | 36 kWh

VICTRON ENERGY® – for long range and lower costs

30 kWh | 45 kWh

- Motor + controller in one unit

- High system efficiency of 94 % (97 % motor, 97 % inverter)

- Plug & play system

- Comprehensive service

- Extended worldwide warranty

30
kW



ARIES i30 - system overview with VICTRON ENERGY® 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

Specifications ARIES i30

Nominal power	30 kW	Nominal Torque	110 Nm (with 4:1 gearbox: 440 Nm)
Nominal voltage	48 V (44 V – 54 V full operation)	Dimension motor incl. controller	Ø 254 mm; L: 265.5 mm
Max. voltage	58 V	Dimension with gear 4:1	Ø 254 mm; L: 457.5 mm
Logic supply voltage	12 V	Motor type	PM-assisted synchronous reluctance motor
Weight motor incl. controller	44 kg	Communication	CAN-Bus
Weight gearbox 4:1	15 kg	Protection class	IP67
Nominal speed	2,610 rpm	Max efficiency	94 % overall (97 % motor, 97 % inverter)
Nominal speed with gear 4:1	653 rpm	Water cooling	Dual-circuit cooling, max. 35 °C flow temperature
Max. speed	6,500 rpm		
Max. speed with gear 4:1	1,625 rpm		

Range tables ARIES i30

Range ARIES i30 electric drive 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.
Depending on boat model, load, propeller and local conditions;
speed and range information without guarantee.

Range ARIES i30 electric drive 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.
Depending on boat model, load, propeller and local conditions;
speed and range information without guarantee.

Charging times

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

**30 kWh battery bank: approx. 1.5 hours
45 kWh battery bank: approx. 2.2 hours**

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