

Electric and hybrid propulsion

E-POD

100

11,3 kW input peak power
1280 RPM - 84 Nm output

9,1 kW input power
1100 RPM - 79 Nm output



MPE1KB



MPE1MBV



EPOD100S

The E-POD combines the motor, mounts, cooling system, gearbox, clutch, propeller shaft, and propeller all into one complete system. This space-saving solution makes the engine box and propeller shaft through the boat redundant. The E-POD opens up floor space, making a completely new boat design possible.

Another unique feature is that with the E-POD there are no rotating or vibrating parts inside the boat. Even better, there is no shaft or shaft bearings. Instead, the E-POD with propeller submerged in the water powers the boat directly. This propeller is the rotor of the energy efficient permanent magnet brushless induction motor drive. To reduce propulsion sounds even more, the propeller is designed to minimize cavitation while maintaining maximum propulsion power.

The E-POD provides maximum motor power and the ability to travel long distances on one battery charge due to efficient motor management and direct 360° liquid cooling. A full day on the water without any limitations is possible.

Supplied with

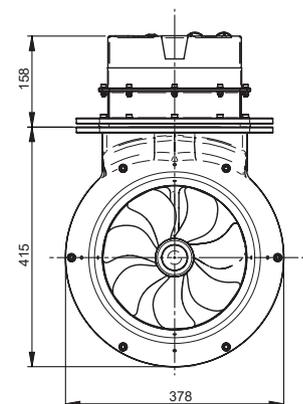
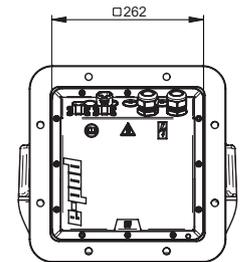
- All-in-one system solution. Integrated cooling system, thrust bearing, shaft system and propeller
- MPE1KB key switch - all-in-one solution; V-CAN power supply, external 12 VDC power supply and anti-theft (see page 80)
- MPE1MBV monitoring panel - V-CAN monitoring, battery indication, motor alarms and motor status (see page 82)
- IV4812360 converting 48 VDC to the required V-CAN power supply 12 VDC

Additional components and accessories to upgrade your electric boating experience

- Side-mount V-CAN control levers with different propulsion modes (see page 81)
- Multifunctional display and battery monitoring solutions (see pages 82 and 83)
- Shore power connection set (see page 279)

TECHNICAL SPECIFICATIONS

E-POD model	100
Motortype	PMAC Permanent Magnet brushless induction motor
CAN bus	V-CAN
Nominal input voltage	48 VDC (40 - 60 VDC)
Maximum input current draw	255 A
Maximum output power	10,2 kW (cf. 20 hp)
Indicative energy consumption*	0,9 kWh @ 6 km/h (3,5 kt)*
Suitable for indicative boat length	up to 9 m (29,5 feet) or 6 ton*
Maximum shaft rpm in NORMAL mode	1100 rpm with Ø 250 mm (9,84") propeller
Maximum shaft rpm in ECO mode	750 rpm with Ø 250 mm (9,84") propeller
Maximum shaft rpm in POWER mode	1280 rpm with Ø 250 mm (9,84") propeller
Maximum torque	84 Nm
Transmission ratio	1:1 direct electric drive
Coupling and shaft system	All-in-one system including propeller
IP-rating motor	IP69 sealed motor and IP65 top cover
Cooling system	Direct 360° cooling; motor submerged in water
Control and warning lights and audible indication on MPE1MBV panel (standard)	Propulsion active, POWER mode, temperature, battery level indication, high current draw, low voltage, limiting alarm
Electric circuit protection	Fuse 300 Amps
Dry weight	61 kg
Equipped with	Active Electronic Braking Battery Protection function Boosted Battery Charge function



*Indication only. Values strongly depending on hull shape, boat length, weight, propeller pitch/diameter and other parameters.