

Datasheet

GM45 Propulsion system

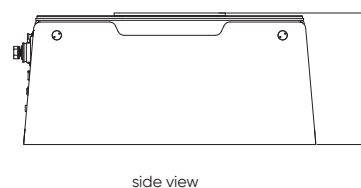
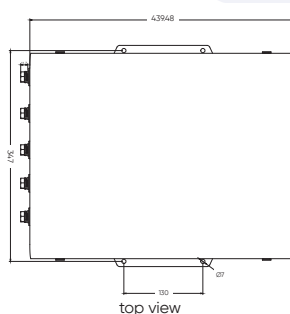
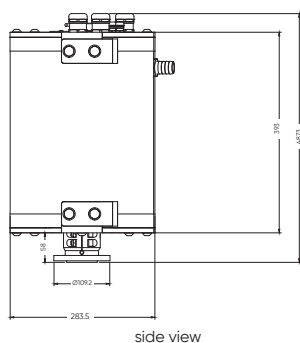
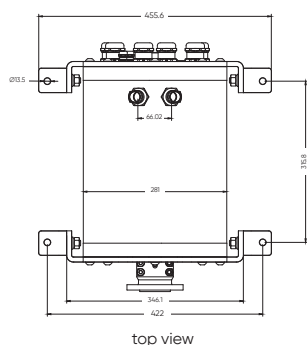


This datasheet gives the detailed specifications of the propulsion system. Our 45 kW propulsion system combines power, efficiency and reliability to meet the highest performance requirements, both for leisure boats and professional use. The 45 kW electric motor is developed for exceptional performance, long life and minimal maintenance. Thanks to the compact and robust design, the motor is easy to install.

Parameter	Value
Motor type	6-phase permanent magnet synchronous motor (PMSM)
Nominal power output	45 kW
Comparable power output in hp	120 hp diesel engine
Battery voltage	40V - 65V (48 Vdc nominal)
Torque	360 Nm
Nominal RPM	1200 RPM
Transmission	None (direct-drive)
Weight motor/controller	approx. 100 kg
Motor shaft diameter	40 mm
Cooling motor/controller	Liquid
Ambient temperature range	-20 °C ~ 60 °C
Communication protocol	CANbus (NMEA converter available)
IP-class motor/controller	IP68
Battery cable size (minimal)	120 mm ² (2x)
Thrust bearing required	Yes

Operation & Monitoring

Add accessories to your propulsion system to create a system completely tailored to your needs.



Type of boats



up to 35 tonnes



up to 35 meter

This is an indication on whether the propulsion system is suitable for a certain boat. It does not take into account the type of boat and the use of the boat. Contact us for a customized advice.

Battery



For this propulsion system we recommend at least 9 GM lithium batteries. You can easily expand these with more batteries for a longer range and/or with a range extender (generator, solar panels and/or wind turbine) for unlimited boating.

Propeller



Note: the propeller choice depends on your boat type, engine power, and sailing profile. Always consult us or your supplier for advice. Often, you can keep your current propeller; only maintenance or adjustment is required.

Installation

Motor mounts are supplied as standard for the installation of the electric motor.



Download the GM app

Monitor your electric propulsion system directly from your phone.



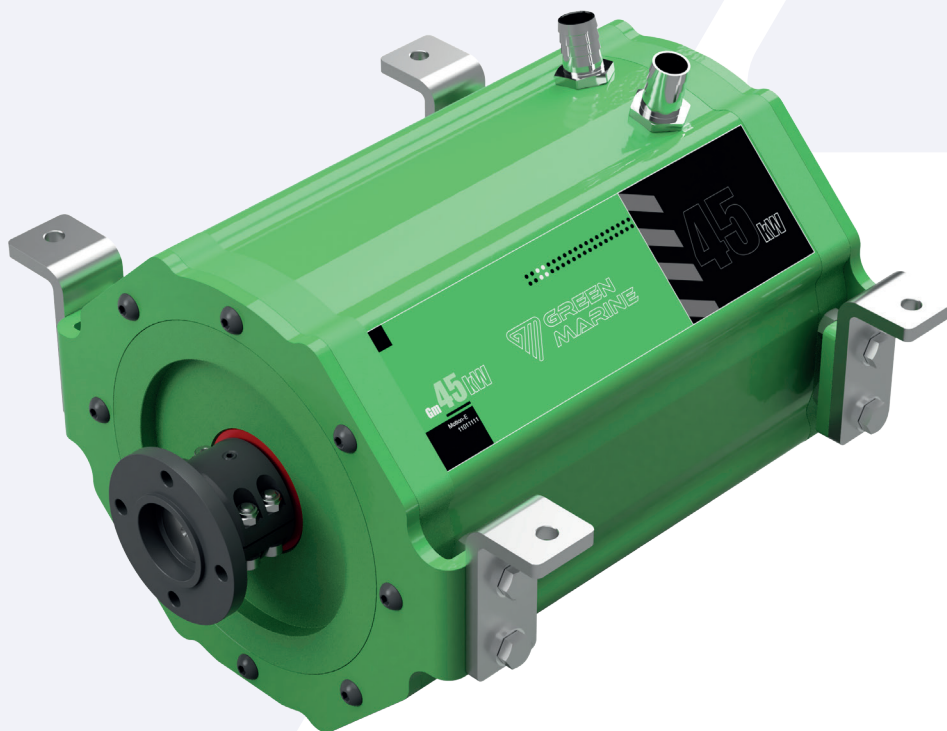
Contact

Do you have any questions or can we help you in another way?
We're there for you.

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