

# Datasheet

## GM22.5 Propulsion system

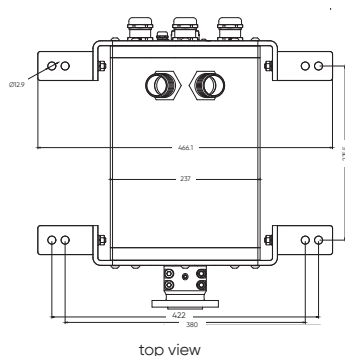


This datasheet gives the detailed specifications of the propulsion system. Our 22.5 kW propulsion system combines power, efficiency and reliability to meet the highest performance requirements, both for leisure boats and professional use. The 22.5 kW electric motor is developed for exceptional performance, long life and minimal maintenance. Thanks to the compact and robust design, the motor is easy to install.

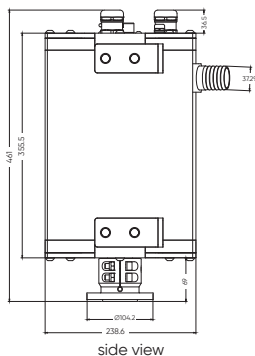
| Parameter                     | Value                                             |
|-------------------------------|---------------------------------------------------|
| Motor type                    | 3-phase permanent magnet synchronous motor (PMSM) |
| Power output                  | 22.5 kW                                           |
| Comparable power output in hp | 60 hp diesel engine                               |
| Battery voltage               | 40V - 65V (48 Vdc nominal)                        |
| Torque                        | 180 Nm                                            |
| Nominal RPM                   | 1200 RPM                                          |
| Transmission                  | None (direct-drive)                               |
| Motor weight                  | approx. 65 kg                                     |
| Motor shaft diameter          | 35 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 <sup>2</sup>                               |
| Thrust bearing required       | Yes                                               |

### Operation & Monitoring

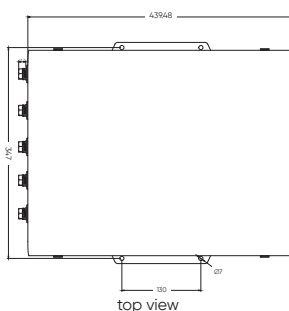
Add accessories to your propulsion system to create a system completely tailored to your needs.



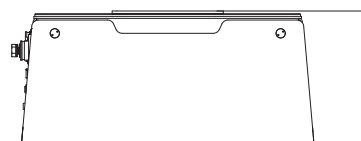
top view



side view



top view



side view

### Type of boats



up to 20 tonnes



up to 20 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 5 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 3-blade

17" x 11"  
(speed 12 km/h)

17" x 12"  
(speed 15 km/h)

Note: This is a guideline only; 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

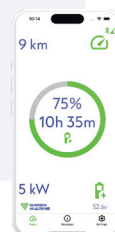
Monitor your electric propulsion system directly from your phone.



iOS



Android



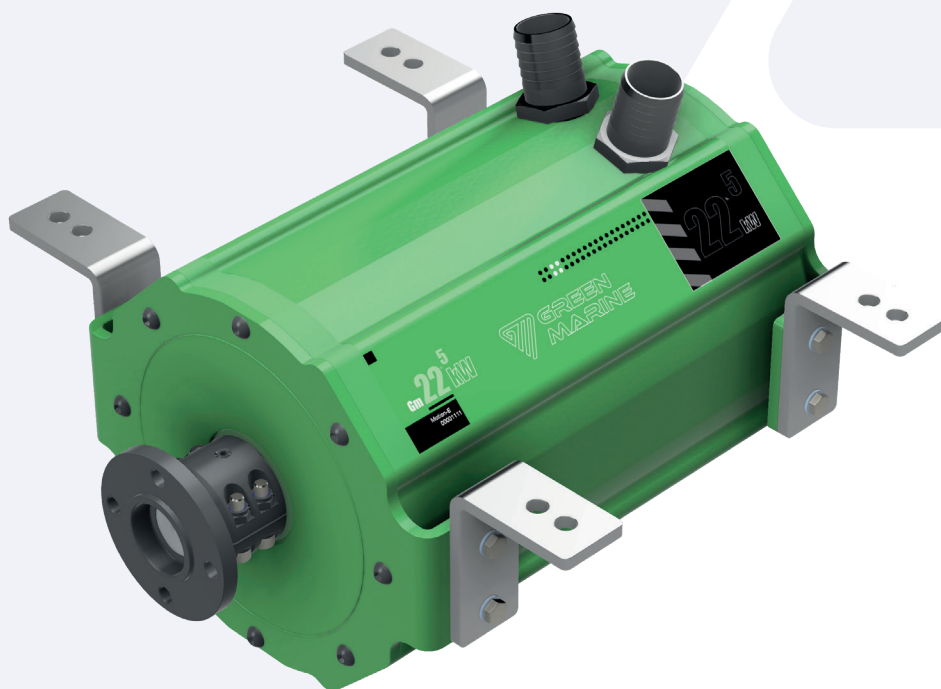
### Contact

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

+31 (0) 75 234 0007  
service@greenmarinemotors.com  
Zuidijk 412, 1505 HE Zaandam  
The Netherlands

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