

Electrical drive
system for FRP
boats

SEAGÖ

Redefining Marine Mobility

Electric Out board motors for FRP boats up to 90 HP

- Introduction
- Technical data

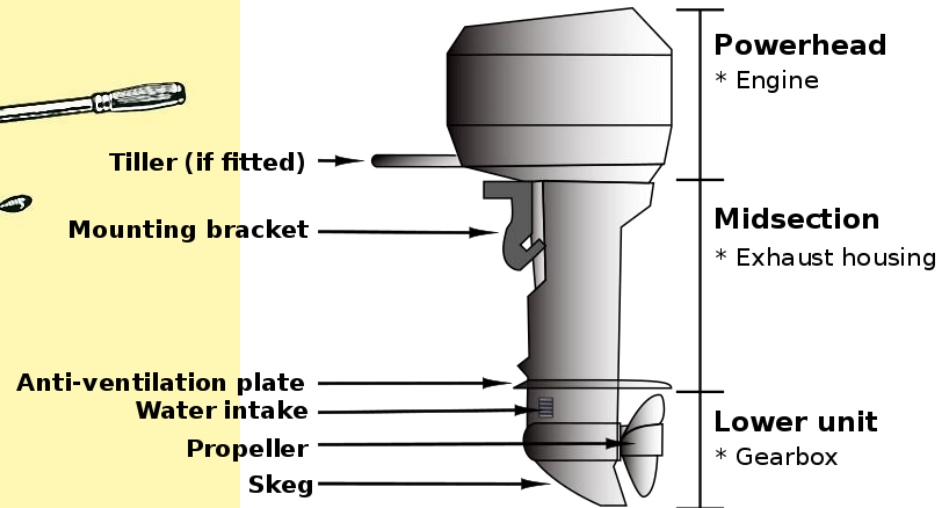
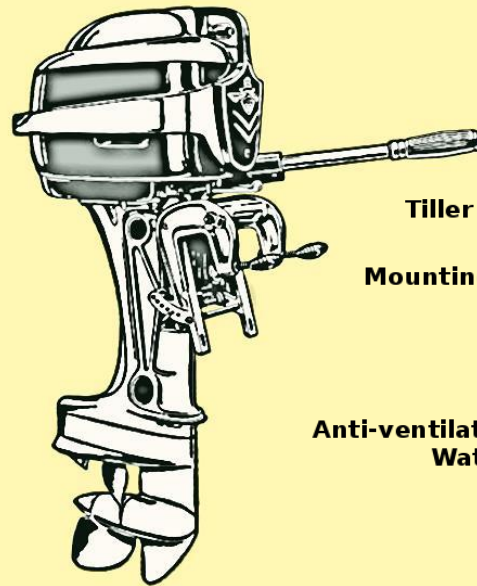
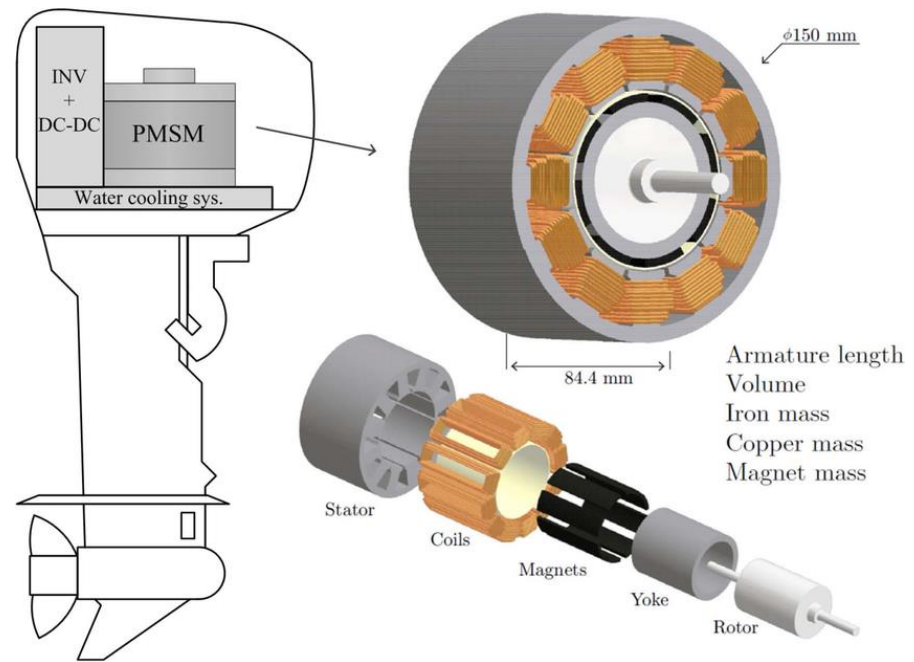
The logo for SEAGÖ, featuring the brand name in a bold, white, sans-serif font. Below the text is a stylized blue graphic element that resembles a wave or a boat's hull, with a white outline and a blue fill.

Technical offer



Specification	3-90 HP OB Electric engines
System voltage	48/72/96 VDC and tailor made voltages
Battery power	50 to 400 AH
Motor capacity	3HP to 90 HP
Power transmission	Direct vertical gear transmission
Expected milage	Based on Battery capacity
Indicators	Motor performance and battery status and mobile phone connectivity
Reversing	Possible
Battery system	LiFePo4 with BMS and mobile connect Application
Throttle	Hand throttle and front control options
Battery charging time	3-4 Hours

Design view



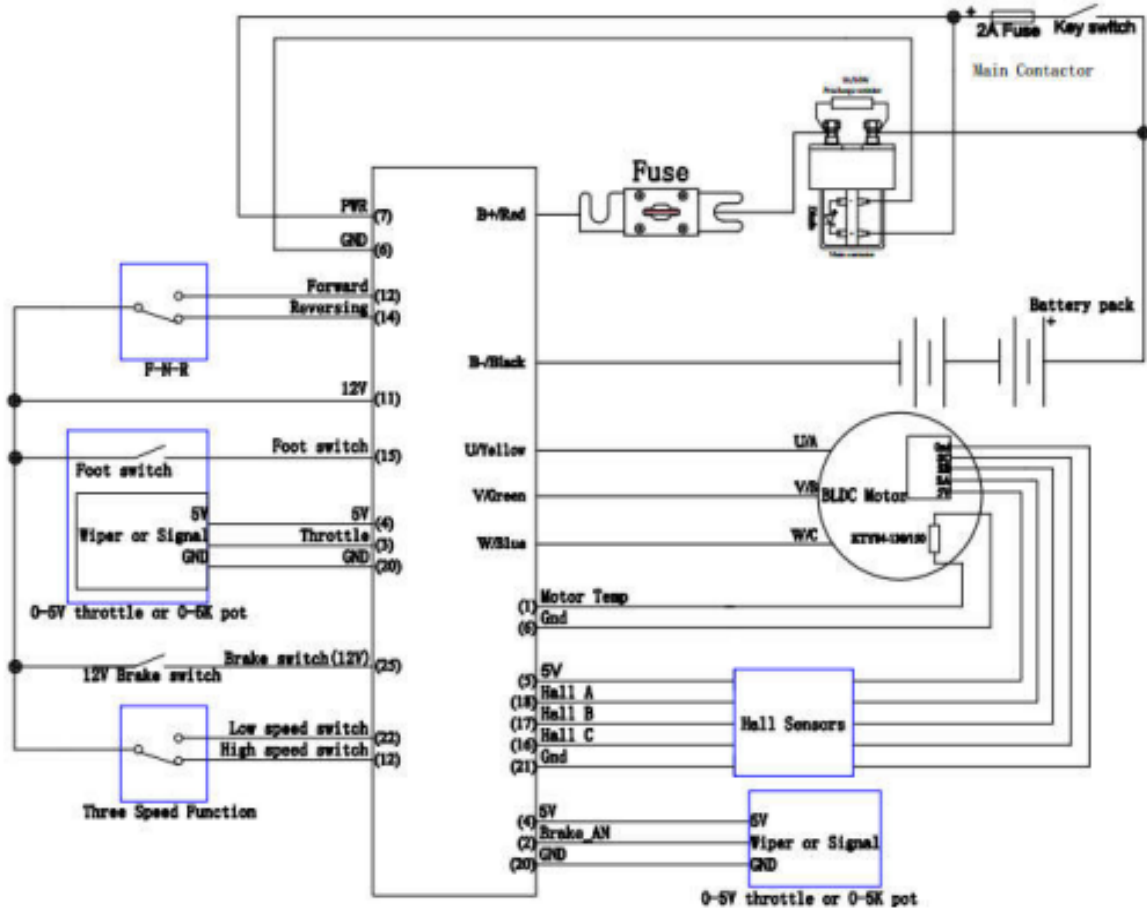
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10 HP outboard



Outboard transmission system has following subcomponents

- Battery – Controller – Motor – Power transfer system
- A dedicated battery management system will monitor the battery properties at all the times
- An E-stop electrical system can hold the motion at any time
- Power transmission is made on stainless, so corrosive free operation
- Battery is the new form of "fuel" for electric propulsion outboards, you never need to go to gasoline station to refuel your outboard anymore. You only need to recharge your batteries at home or docking place.
- Water cooling construction
- Regenerative braking
- Reversing is possible
- Lighting for fishing can be fed from battery



10 HP outboard

Operating hours may vary based on throttle condition and pay load conditions



Specification	10 HP Electric engine
System voltage	72 VDC
Motor capacity	7300W / 4300 RPM
Power transmission	Vertical gear transmission
Expected torque and Max torque	17.8 NM/ 26 NM
Speed range	5-7 Nautical miles
Mileage with 100AH	20-25 KM per charge
Indicators	Motor performance and battery status
Reversing	Possible
Braking	Hand braking
Throttle	Hand throttle & front control optional
Battery Life	2000 – 5000 Cycles options
Battery charging time	3 to 4 Hours
Battery power 100% throttle with 100AH	60 Mins
Battery power 75% throttle	85 Mins
Battery power 50% throttle	125 Mins
Battery power 25% throttle	190 Mins

20 HP outboard

Operating hours may vary based on throttle condition and pay load conditions



Specification	20 HP Electric engine
System voltage	96 VDC
Motor capacity	1500W / 5500 RPM
Power transmission	Vertical gear transmission
Expected torque and Max torque	26.3 NM/ 32.6 NM
Speed range	5-7 Nautical miles
Mileage with 200AH	20-25 KM per charge
Indicators	Motor performance and battery status
Reversing	Possible
Braking	Hand braking
Throttle	Hand throttle & front control optional
Battery Life	2000 – 5000 Cycles options
Battery charging time	3 to 4 Hours
Battery power 100% throttle with 200AH	75 Mins
Battery power 75% throttle	115 Mins
Battery power 50% throttle	165 Mins
Battery power 25% throttle	220 Mins

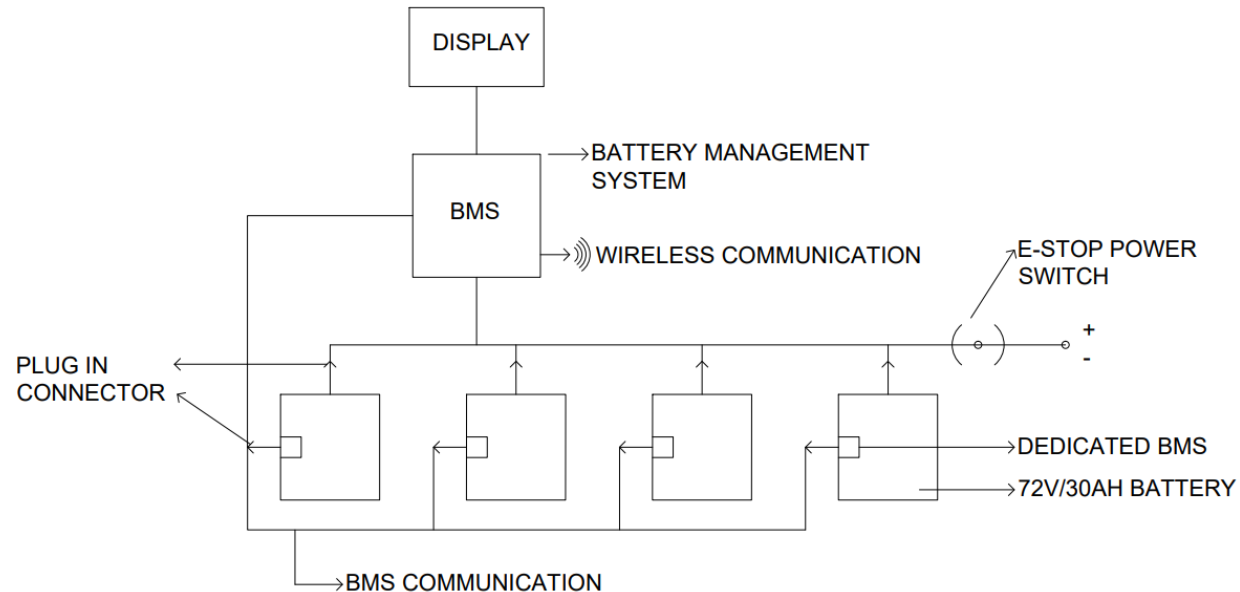
Battery recommendation

Horse power	Battery Voltage	Minimum AH required
5.0 HP	48 VDC	50 AH
7.5 HP	48 VDC	80 AH
10 HP	72 VDC	100 AH
15 HP	96 VDC	180 AH
20 HP	96 VDC	220 AH
30 HP	Tailor made 115 – 220 VDC	150 AH
40 HP	Tailor made 115 – 220 VDC	200 AH



Battery Configuration

Battery configuration

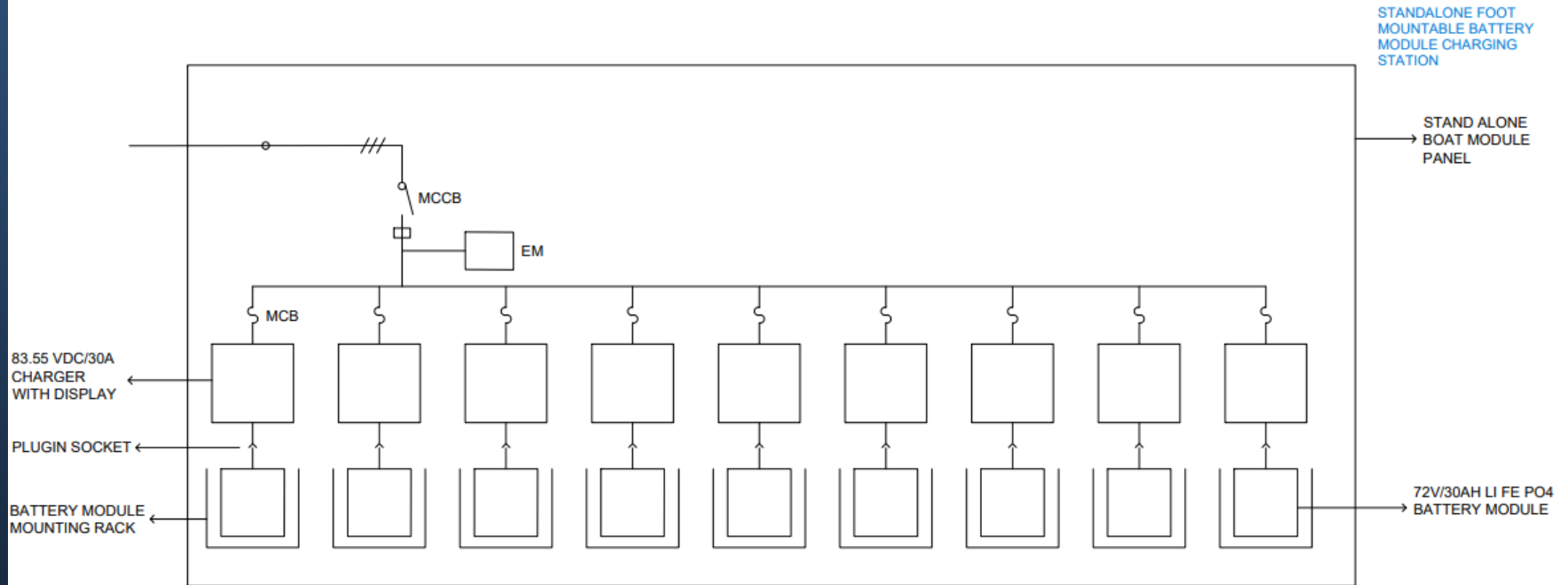


- Every module 30AH modules connected in parallel
- Click fit connectors for easy termination
- Dedicated BMS for every Battery module
- Overall BMS for load sharing and protection
- IP 65 enclosure for outdoor usage
- Single point E-stop for power isolation
- Wireless communication with mobile App for remote monitoring
- Module weight is 15 kg and easy to handle for charging

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Inland & Floating battery charging station

Battery Charger Configuration



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- Inland & floating battery charging station can have multiples of 30AH charging modules
- Plug and charge – No termination required
- Protection against over charging, spikes and voltage variations
- Remote monitoring