

N-Series

Electronic

outboard motors



Comparison between Navy 6.0 Evo (2024)

New and Old Models

Product Appearance Comparison



Navy 6.0 Evo



Navy 6.0
Evo(2024)

Product Introduction

Motor Top Case
Plastic material, with a smaller gap to the lower shell

Decorative Cover

Long Steering Bolt

Bellows
Bundling + Protection

Power Cable with Com Cable Integrated

Oil-Cooled Direct Drive Motor
To minimize power loss caused by transmission and achieve a smaller size with stronger heat dissipation

Lower shell
Integrated die-casting with heat sink

Fan
Drive with forced air cooling, fan noise at 42.3dBA

Transom Bracket

shaft

RS-485 Communication Cable
Elbow, length approximately 5m, compatible with Evo remote control box and battery

Tiller Shaft
The handle can be easily disassembled

Fan Baffle

Driver Board Assy.

Chassis decorative strip
Piercing-type tail light design, rubber material for a better tactile feel

Lift handle
One-piece die-cast lower shell

Anti-grounding Module Assy.
Added feature for machine protection

Anode

Propeller
Equipped with a single propeller, suitable for over 90% of usage scenarios

Navy 6.0 Evo(2024)



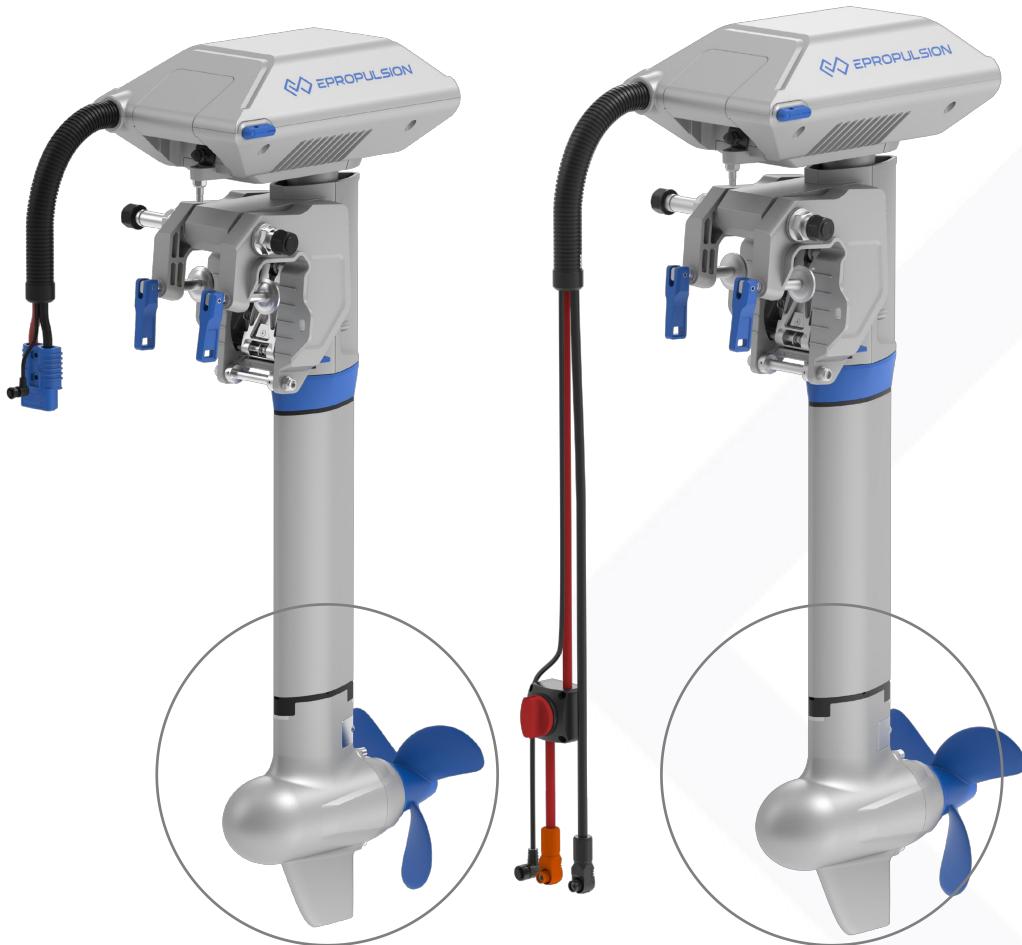
Product Specifications

Navy 6.0 Evo (2024) Product Specifications	
Energy Types	Electricity
Rated Voltage/Rated Current	48V/125A
Applicable Batteries	48V Battery, 4x12V Batteries in Series
Input Voltage Range	39V~60V DC
Maximum Input Power (Forward/Reverse)	6kW/6kW
Equivalent Fuel Outboard Motor	9.9hp
Rated RPM (Forward)	1700rpm
Control System	Evo Remote Control/Evo Tiller/Evo Dual Remote Control/Evo Side-Thrust Controller
Communication	Wired/Wireless
Communication Distance	Wired≤10m/Wireless≤15m
Length × Width × Height (Main Unit)	475mm×314mm×1055mm(S) 475mm×314mm×1180mm(L)
Shaft Length	616mm/741mm
Net Weight	29kg(S)/30kg(L)
Normal Trim Angle	Installation position: 5°, 10°, 15°, 20°
Shallow Water Mode	Shallow water mode: 35°, 50°, 65°
Tilt-up Angle	Tilt up position: 80°
Light Load Propeller (Diameter × Pitch)	12.6' ' ×10.6' '
Heavy Load Propeller (Diameter × Pitch)	11.3' ' ×8.5' '
Controller/Motor Cooling Method	Forced Air Cooling/Oil Cooling + Underwater Natural Cooling
Operating Environment/Storage Temperature	-10°C~45°C

Main Difference points

Main Difference

Motor Part



2024



Navy 6.0 Evo

Weight: ~ 21kg
volume: 448mm×340mm×373mm
Water cooling



Navy 6.0 Evo (2024)

~ 12kg
360mm×287mm×322mm
Oil cooling

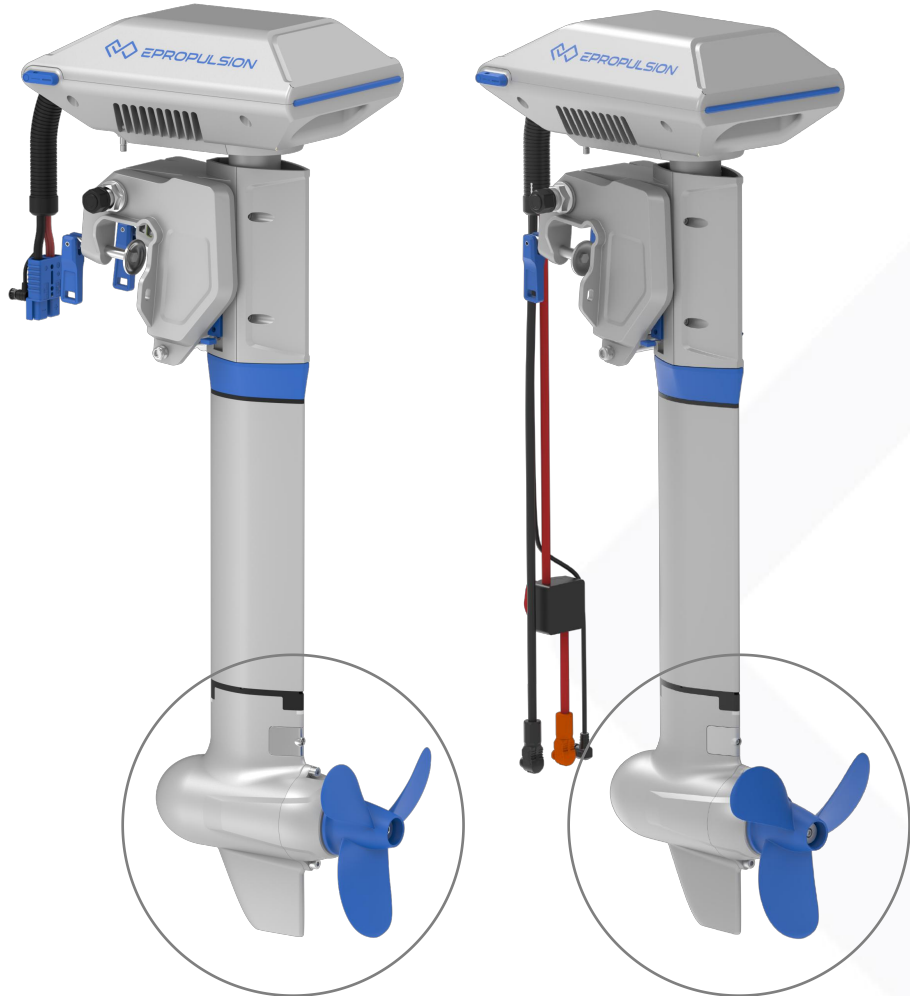
Decreasing the motor's weight by **43%**

Decreasing its volume by **41%**

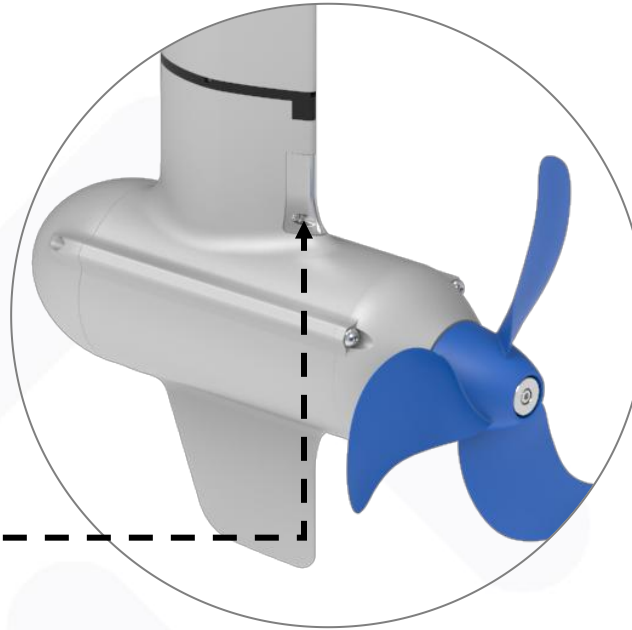
The motor adopts cooling oil for heat dissipation and lubrication to extend the service life of the oil seal;

Main Difference

Motor Part

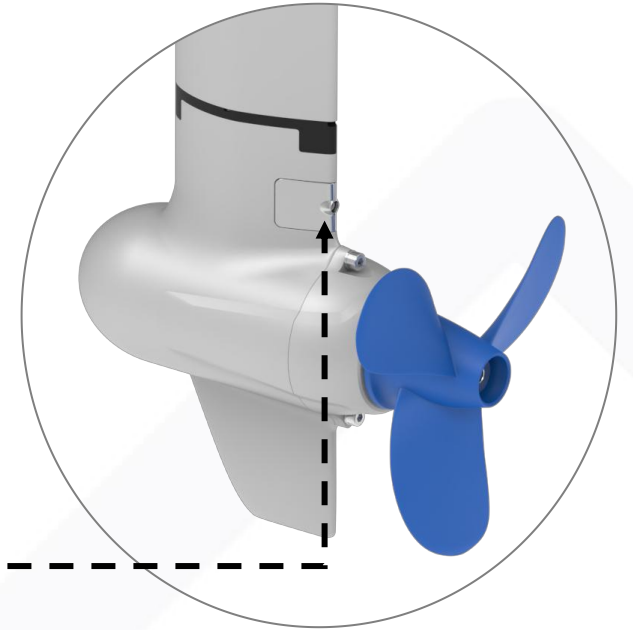


2024



Navy 6.0 Evo

Anode block: H shape
Propellers: Low Pitch Propeller and High Pitch Propeller are standard. Adapt the propeller according to the Boat type

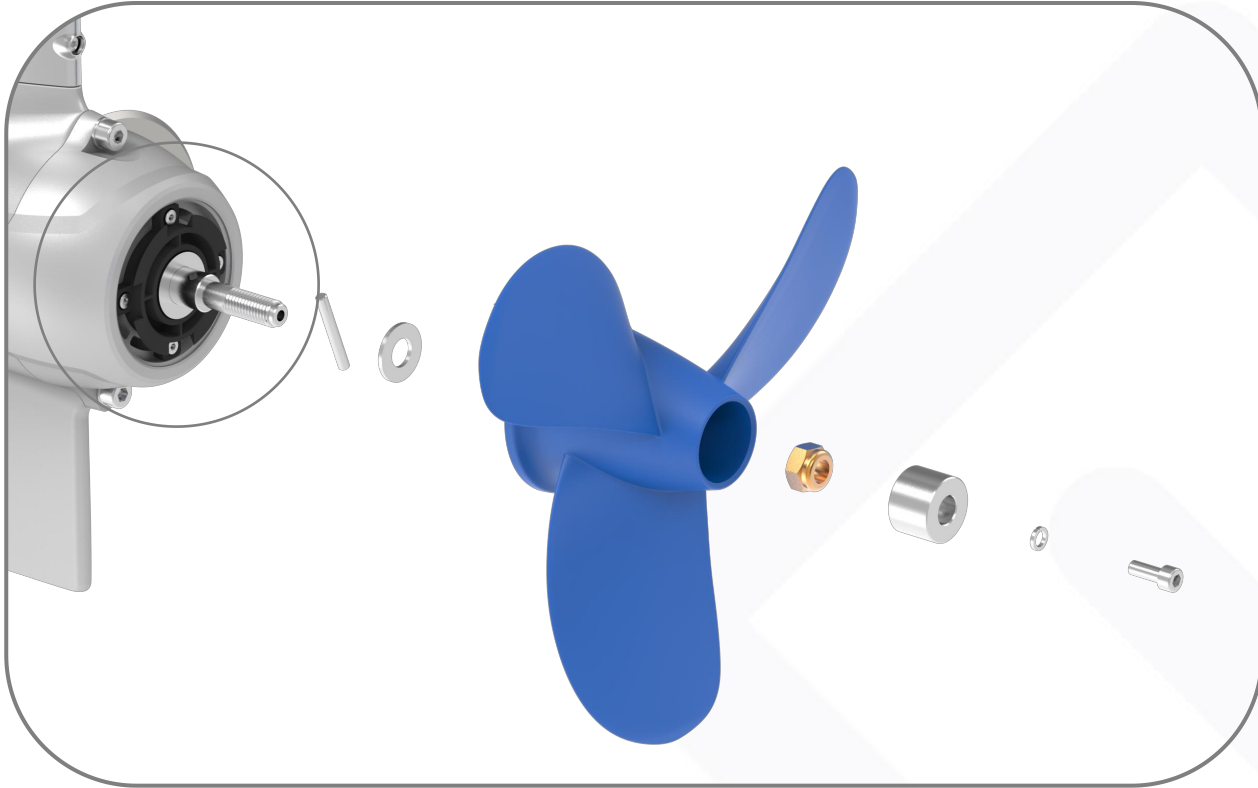


Navy 6.0 Evo (2024)

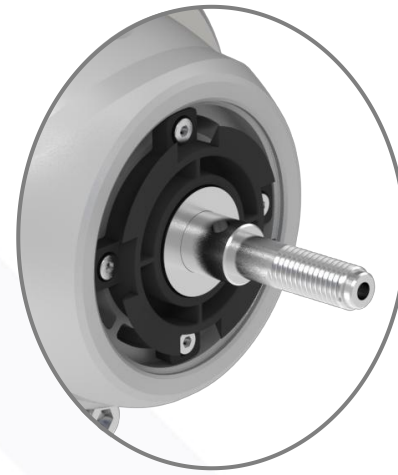
Anode block: V-shaped anode block, larger scouring area, more effective protection, longer service life
Propeller: single propeller as standard, no need to worry about the Boat type

Main Difference

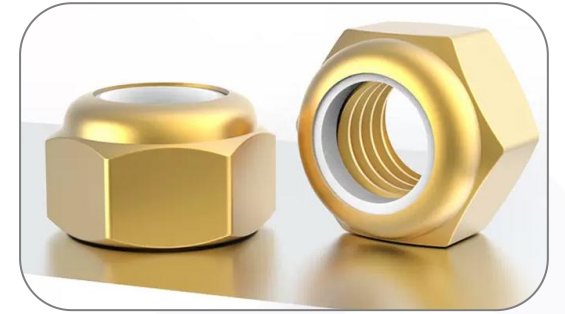
Motor Part



Navy 6.0 Evo (2024)



The oil seal cover is added for prevents tangling of fishing line. Assurance the service life of the oil seal



The lock nut of the propeller is changed to brass to completely avoid the problem of motor shaft thread damage



Optional Fishing net cutter (work with metal Propeller) is used to deal with water plants, ropes and other sundries in the water area, so as to avoid machine failure caused by sundries

NO:NE-LU30-00

Main Difference

Fixture part---lifting method

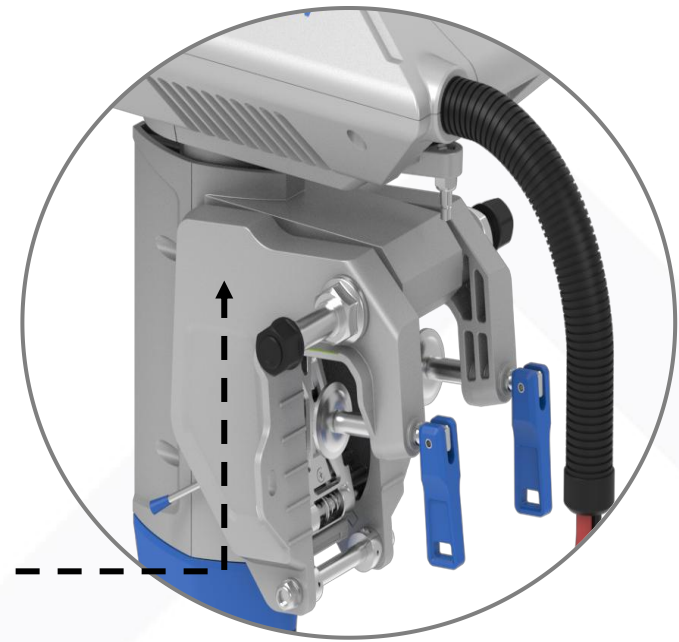


2024



Navy 6.0 Evo

Need to use two hands during the till up and need to press the button if we want to till down;



Navy 6.0 Evo (2024)

Cancel the tilting release button
one-handed tilting & release

Main Difference

Fixture part---gear angle



2024



Navy 6.0 Evo

1. Normal sailing angle 5°, 10°, 15°, 20°
2. Lifting angle: 60°



Navy 6.0 Evo (2024)

1. Installation position 5°, 10°, 15°, 20°
2. Added shallow water sailing angles: 35°, 50°, 65°, suitable for shallow water sailing
3. Increase the tilt up position to 80°, to prevent the growth of microorganisms or vegetation

Main Difference

Fixture part---strength



2024



Navy 6.0 Evo
The material of Bracket Clamp
Left/Right Assy: ADC12



Navy 6.0 Evo (2024)

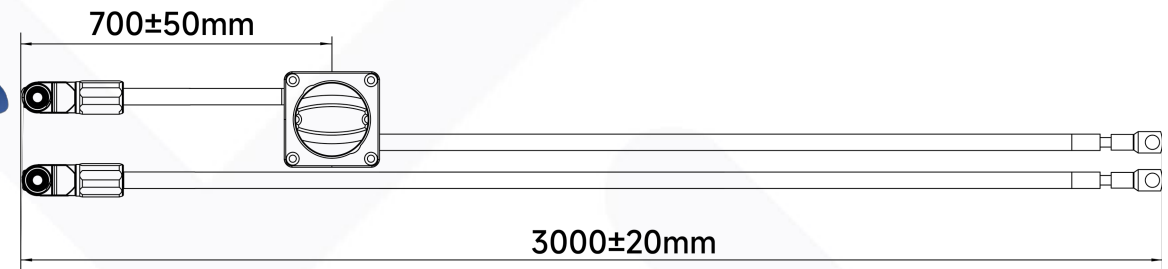
1. The material of the Bracket Clamp Left/Right Assy : A360, the structure is strengthened, Greater strength, better toughness
2. Added a new collision protection structure, which triggers the collision protection function when sailing with a large inertia and hits an obstacle, protects the structure of the bracket assembly from breaking, and extended its service life .

Main Difference

Power wire part



2024



Enhanced safety and corrosion resistance of the Power cord :
The power cord connector is upgraded to an Amphenol waterproof connector, which can be directly connected to the battery.
The power switch is integrated into the power cord and the switch is optimized for waterproof.

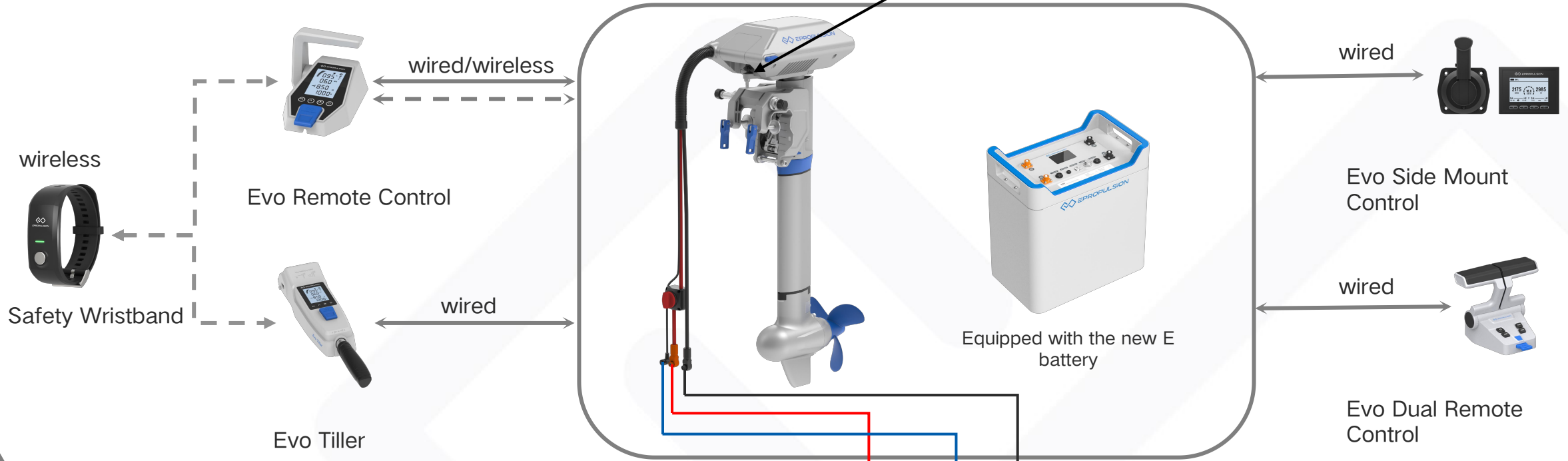
Upgrade High light

1. Upgraded to an oil-cooled motor, achieving higher power density, decreasing the motor's weight by 43%, and decreasing its volume by 41%.
2. Optimized the trim & tilt function, providing more trim position and add shallow water trim position: Before 5°,10°,15°,20°,60° After 5°, 10°,15°,20°,35°,50°,65°,80°.
3. New collision protection structure and strength material of the bracket will help to handle even the most challenging operating conditions with ease.
- 4.Improved the wiring harness connection for superior waterproofing and corrosion resistance.

Product Instructions

Product Instructions

communication interface



- ① When the Evo Remote Control communicates with the main unit wirelessly or uses the Evo Tiller, the elbow communication cable with the main unit can be connected to the E series battery.
- ② When the Evo Remote Control is wired through the elbow communication cable with the host, you can use a 5m communication cable to connect the battery to the communication connector on the chassis.



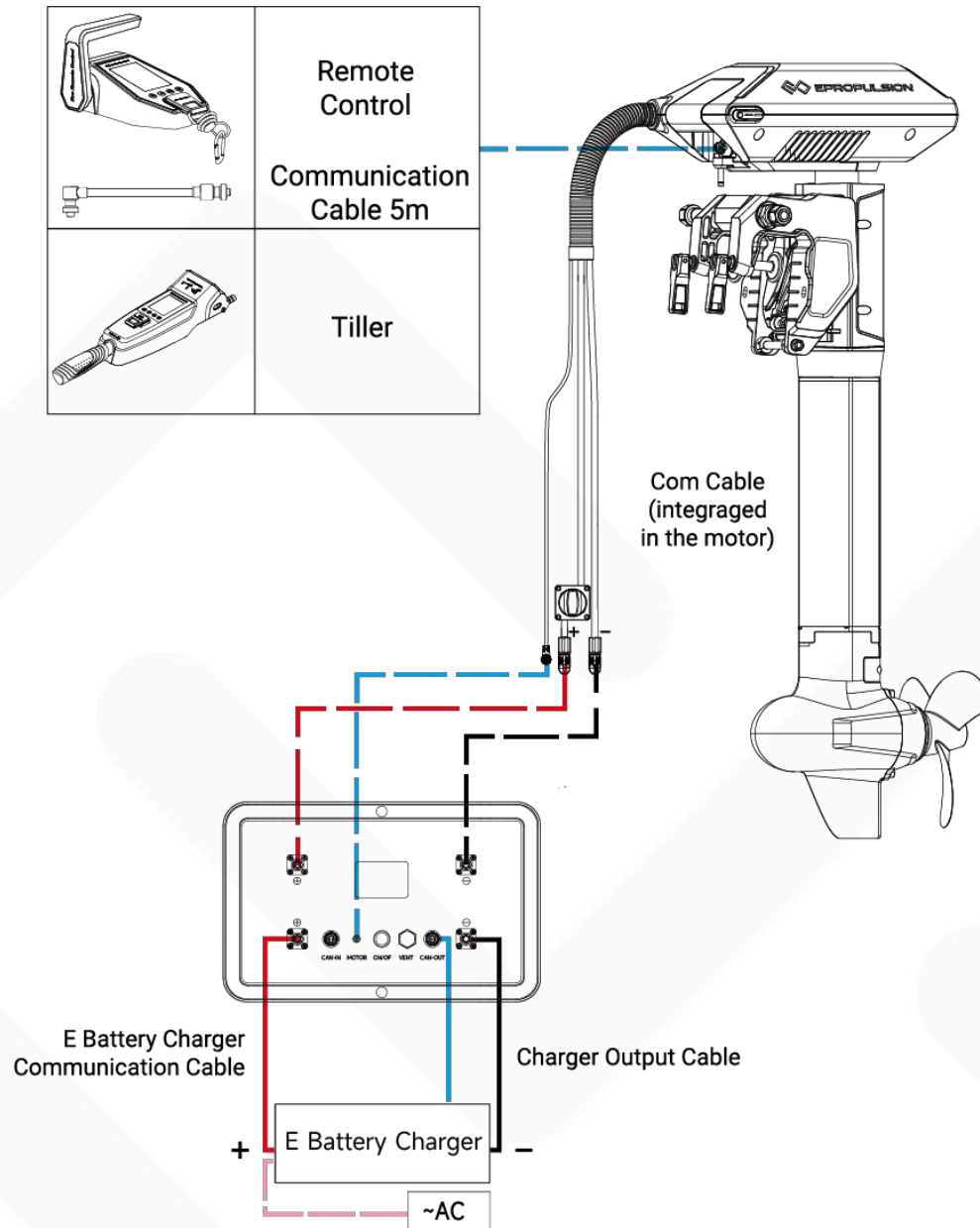
E 1 6 3



The 4.6m elbow communication cable can be connected to the Evo Remote Control/E series battery

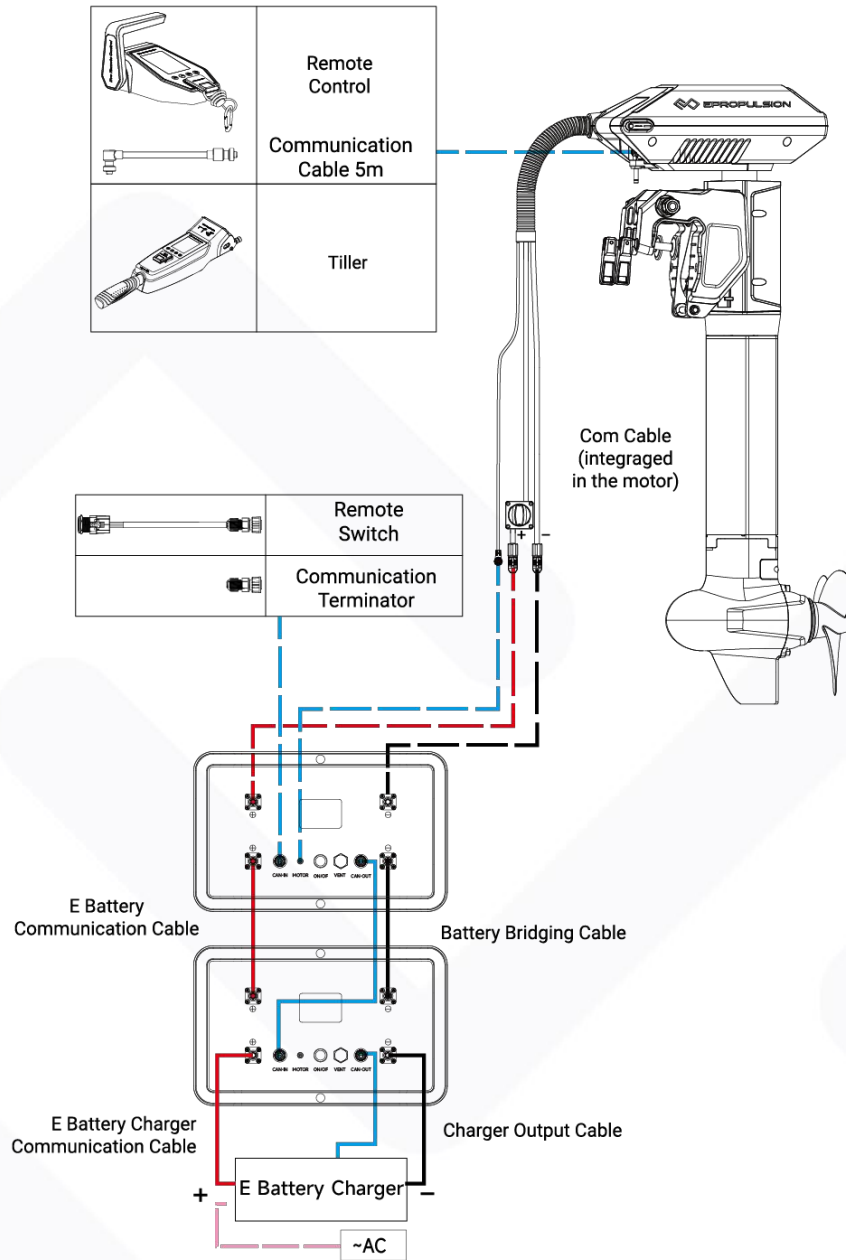
System Diagram

NAVY 6.0 Evo (2024) single motor+single E Battery+Evo Remote Control/Evo Tiller+E Battery Charger



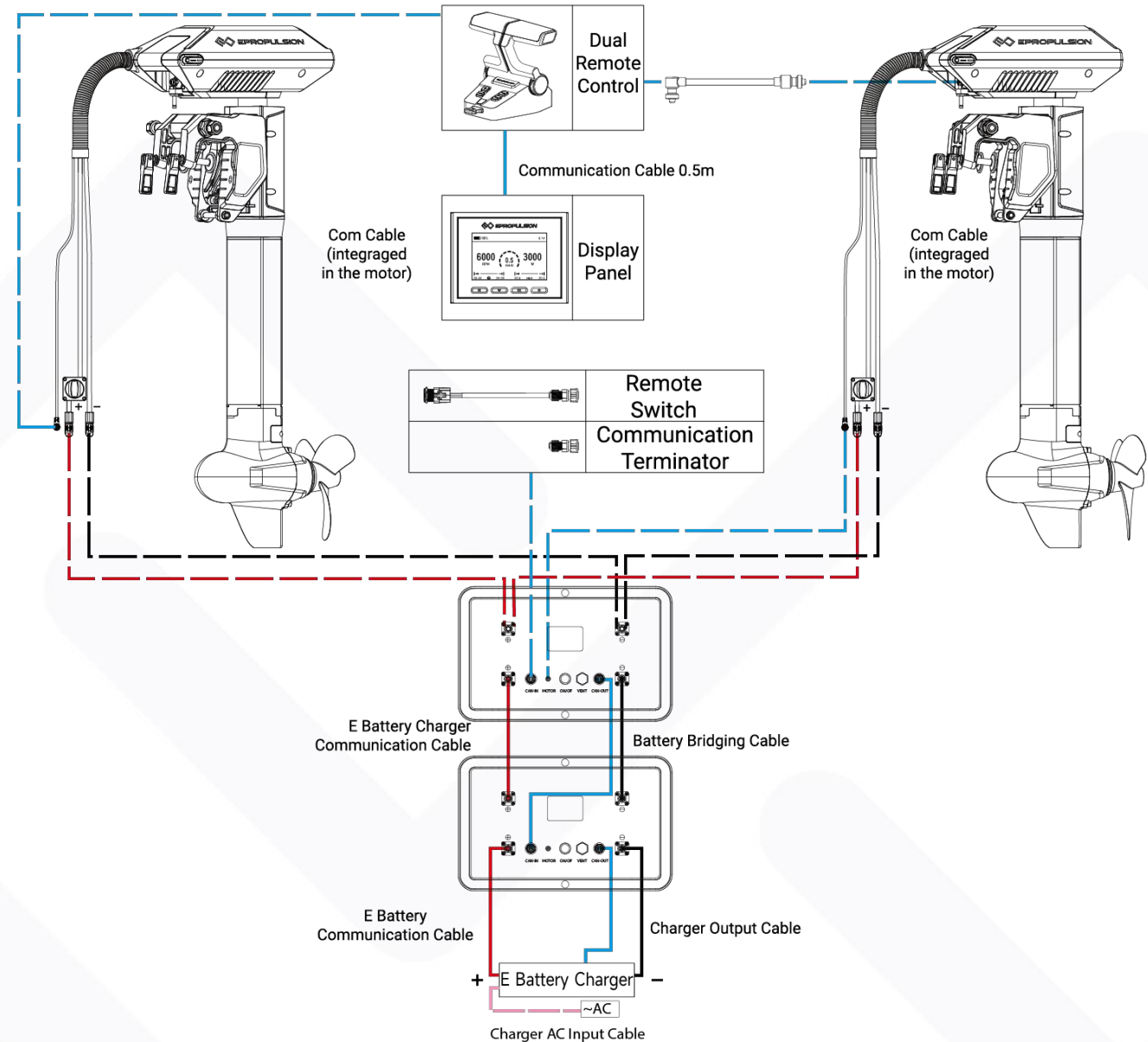
System Diagram

NAVY 6.0 Evo (2024) single motor+two batteries (Remote switch/Communication terminator) +Evo Remote Control/Evo Tiller+E Battery Charger



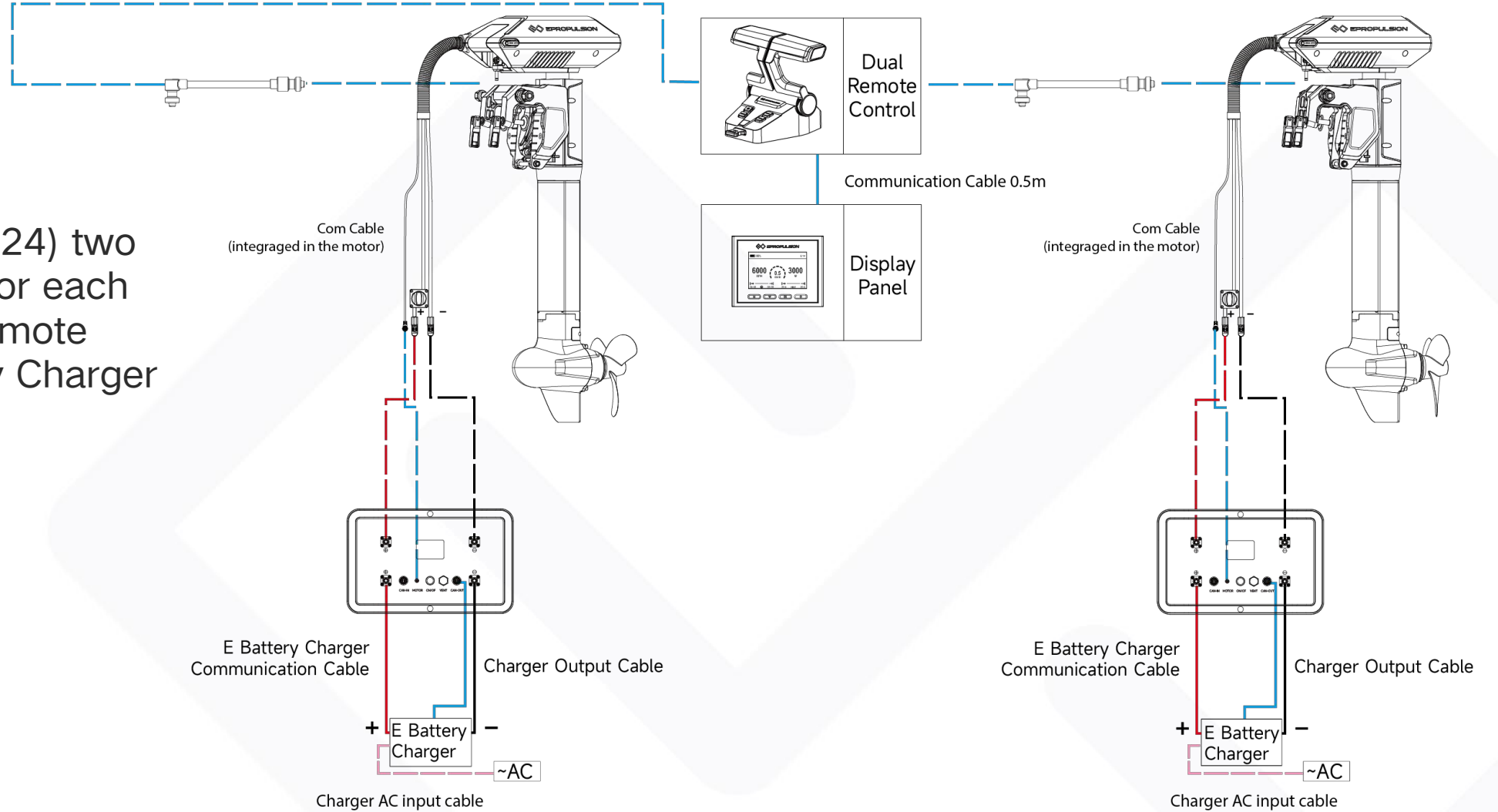
System Diagram

NAVY 6.0 Evo (2024) two motor
+two Batteries in parallel (Remote
switch/Communication terminator)
+ Evo Dual remote Control + E
Battery Charger



System Diagram

NAVY 6.0 Evo (2024) two motor+E Battery for each one+ Evo Dual Remote Control +E Battery Charger



Thanks