



# MARINE



✓ EFFICIENT

✓ LIGHT

✓ POWERFUL

PERMANENT MAGNET DC ELECTRIC MOTORS

## LIGHT WEIGHT

27kg Weight

## EFFICIENT

Up to 93% efficiency

## RELIABLE

Limited moving parts

## ECO FRIENDLY

No emissions  
No fuel

## POWERFUL

Available from 16 to 26Kw

## LOW COST

Save on fuel bills

# SWORDFISH TWIN DRIVE (48-75HP)

## Overview

Our reliable and powerful Swordfish twin drive system provides unrivalled efficiency and clean power for canal broad beam barges, sailing boat catamarans and much more.

## Key Features

- 48-75HP (16kw & 26kw out)
- 40-80ft craft size
- 48v input & 72v input
- Consistent reliability
- Quiet & efficient
- Easy to install
- Suitable for a range of vessels

## Swordfish Twin Marine Drive System



### ? What's included?

- ✓ Electric DC Motor
- ✓ Controller assembly
- ✓ Display
- ✓ Leads & installation manual
- ✓ Throttle
- ✓ Motor frame/direct drive & gearing assembly
- ✗ Batteries
- ✗ Charger

## Applications



Narrow Boats & Broad Beam Barges



Sailing Boats



Catamarans



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# SWORDFISH

## TWIN DRIVE SYSTEM

ALL OF OUR MOTORS HAVE  
A 2 YEAR EXTENDABLE  
WARRANTY

✓ EFFICIENT    ✓ LIGHT    ✓ POWERFUL

PERMANENT MAGNET DC ELECTRIC MOTORS

TECHNICAL SPECIFICATIONS	SWORDFISH 16	SWORDFISH 20	SWORDFISH 26
REPLACE COMBUSTION ENGINE SIZE	48-60 HP (40-70FT)	50-56 (40-70FT)	60-75 HP (50-80FT)
MOTOR TYPE	LEM 200-D135 X 2	LEM 200-95 X 2	LEM 200-D135 X 2
VOLTAGE	48V DC	48V DC	72V DC
CURRENT	180 Amp	220 Amp	200 Amp
POWER OUTPUT	16 KW	20 KW	26 KW
AVERAGE EFFICIENCY	90%	90%	90%
BATTERY RECHARGE FUNCTION	YES	YES	YES
RATED SPEED ENGINE	2160 RPM	3500 RPM	3240 RPM
RATED TORQUE	72 Nm	48 Nm	72 Nm
SPEED CONSTANT	45 RPM/V	81 RPM/V	45 RPM/V
PEAK CURRENT	350 Amp	400 Amp	400 Amp
PEAK POWER	30 KW	40 KW	53 KW
PEAK TORQUE	144 Nm	96 Nm	144 Nm
REDUCTION GEARING STANDARD	28 : 56	22 : 72	28 : 56
REDUCTION GEARING STANDARD	22 : 72 AND 22 : 90	22 : 40	22 : 72 AND 22 : 90
STANDARD RPM PROPELLER SHAFT	990 RPM	1100 RPM	1270 RPM
OPTIONAL RPM PROPELLER SHAFT	848 RPM	875 RPM	990 RPM
OPTIONAL RPM PROPELLER SHAFT	660 RPM	_____	790 RPM
WEIGHT OF MOTOR AND FRAME	27 KG	27 KG	27 KG
WEIGHT OF MOTOR CONTROL BOX	18KG - LARGE 2 OFF	18KG - LARGE 2 OFF	18KG - LARGE 2 OFF

### BMV 700 INTELLIGENT DISPLAY

Key ignition with voltage, battery capacity and available range.



### STANDARD THROTTLE

One direction setting or neutral position with forward and reverse. Can be top or side mounted.



### LYNCH DUAL THROTTLE

To use with Catamarans and Twin Prop applications.

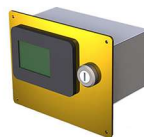


### BMV 712

Monitors battery condition remotely through an app.

### SIGMA DISPLAY

Key ignition with battery capacity levels, throttle settings and programme codes for the controller.



### THRUST BEARING



### DC TO DC CONVERTOR

