



ELECTRIC DRIVE SOLUTIONS

DRIVEMASTER

LIQUID COOLED

OVERVIEW

The DriveMaster is a simple, easy-to-install inboard electric propulsion system designed to deliver high performance, excellent efficiency and reliability. It is air or liquid cooled.

KEY FEATURES

- Motor with mounting brackets and silent blocks
- Motor with integrated thrust bearing (max 20 kW)
- Vector control inverter IP65
- Precharge circuit
- DC-DC converter 12 Vdc
- 5m cable for display, lever, key
- Quick install, easy connect, plug and play
- Inlet and outlet liquid connections
- Key panel (OFF-ON-ECO)

INCLUDED

- Main switch and main fuse (Only for 48/96/144 Vdc battery w/o internal switch and fuse)
- TF display
- Drop box DP280
- (ratio $i = 1.59 - 2.01 - 2.41 - 2.87 - 3.35 - 3.97 - 5.01$)
- Regeneration kit (Cable + key panel ON-OFF)

APPLICATION



Marine



LIGHT WEIGHT

From 19 Kg to 195 Kg

EFFICIENT

95% to 97% efficiency

RELIABLE

More than 100,000 hours working

ECO FRIENDLY

No emissions, no fuel

POWERFUL

2 kW to 55 kW

LOW COST

Save on fuel bills

**All motors**

Permanent Magnets AC,
high efficiency, IP65

Intermittent kW: S3 10% - 10'
(1 minute at intermittent
power then reduced for 9
minutes to return to stable
temperature)

Ratings

Cruising speed: 70% of rated
motor rpm

Medium Duty: liquid cooled
motor, up to 1000 hours/
year, intermittent kW allowed

Heavy Duty: liquid cooled
motor, up to 3000 hours
per year, intermittent kW
allowed, max 80% of time at
rated rpm and load

Ratings

For Torque calculation use
the formula:

$$T \text{ (Nm)} = \frac{\text{kW}}{\text{rpm}} \times 9550$$

Batteries can be of any chemistry and brand.

TF BATTERY	min [Vdc]	max [Vdc]
51	44	59
102	88	118
140	121	162
307	264	355
409	352	473

To evaluate the battery characteristics in case of customer's
supply please use the following formula giving the max (A)
current required by Transfluid's motors:

$$I \text{ (A)} = \frac{\text{kW} \times 1000}{V} \times 2$$

DriveMaster - Liquid cooled system specifications

Product code	Model	Motor Size	Nominal kW	Intermittent kW	Battery Vdc	Motor rpm
BV101608W	DriveMaster 3W	180-4	2.5	3	48 (51)	1500
BV100854W	DriveMaster 7W	180-8	5	7	48 (51)	1500
BV100808W	DriveMaster 10W	180-12	8	10	48 (51)	1500
BV100810W	DriveMaster 15W	220-20	10	15	48 (51)	1500
BV101610W	DriveMaster 20W EVO	220-20 (s)	15	20	48 (51)	1500
BV100812W	DriveMaster 20W	220-20	15	20	96 (102)	1500
BV101288W	DriveMaster 30W	220-35	25	30	144 (140)	1500
BV101642W	DriveMaster 45W	300-50	35	45	144 (140)	1500
BV101580W	DriveMaster 55W	300-75	45	55	144 (140)	1500

(s) Special
() Transfluid battery

Unit 4 Flightway Dunkeswell
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**2 YEAR EXTENDABLE WARRANTY
WITH ALL OF OUR MOTORS**