

# Master Info

- 1 - All motors are Permanent Magnets AC, high efficiency, IP65
- 2 - Intermittent kW: S3 10% - 10' (1 minute at intermittent power then reduced for 9 minutes power to return to stable temperature)
- 3 - Battery: 48V, 96V and 144V can be of any chemistry and brand; 288V and 384V need to be Transfluid's battery.

BATTERY	max [Vdc]	min [Vdc]
48	61	44
96	115	82
144	169	121
288	346	247
384	462	330

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:

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

#### 4 - RATINGS:

- Cruising speed: 70% of rated motor rpm
- Light Duty: air cooled motor, up to 200 hours/year, intermittent kW allowed
- Medium Duty: air cooled motor, up to 500 hours/year, only nominal kW allowed
- 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

5 - Separate thrust bearing is recommended above 20 kW

6 - For Torque calculation use the formula:  $T (Nm) = \frac{kW}{rpm} \times 9550$

# DriveMaster

Permanent magnet motors for installation on shaft lines; available with air or liquid cooling. Maximum efficiency, silent and compact solution. Regeneration via trailing propeller possible.

## Air Cooled

#### Including:

- Motor with mounting brackets and silent blocks
- Motor with integrated thrust bearing
- Vector control inverter IP65
- Main switch and main fuse
- DC-DC converter 12 Vdc
- 1,5m cable for display, lever, key
- Quick install / easy connect / plug and play

#### Optional:

- NMEA2000 compatible (upon request)
- Regeneration kit



#### Light & Medium Duty

PRODUCT CODE	DESCRIPTION	MOTOR SIZE	Light & Medium Duty		BATTERY Vdc	MOTOR rpm
			NOMINAL kW	INTERMITTENT kW		
BV101489A	DriveMaster 2A	180-4	1.5	2	48	1500
BV100854A	DriveMaster 5A	180-8	4	5	48	1500
BV101529A	DriveMaster 7A	180-12	5	7	48	1500
BV101808A	DriveMaster 10A	220-20	8	10	48	1500
BV102008A	DriveMaster 8A	180-12	6	8	96	1500
BV102015A	DriveMaster 15A	220-20	10	15	96	1500
BV101288A	DriveMaster 25A	220-35	20	25	144	1500
BV102035A	DriveMaster 35A	300-50	30	35	144	1500
BV102050A	DriveMaster 50A	300-75	40	50	144	1500

# DriveMaster

## Liquid Cooled

### Including:

- Motor with mounting brackets and silent blocks
- Motor with integrated thrust bearing
- Vector control inverter IP65
- Main switch and main fuse
- DC-DC converter 12 Vdc
- 1,5m cable for display, lever, key
- Quick install / easy connect / plug and play
- Inlet and outlet liquid connections

### Optional:

- NMEA2000 compatible (upon request)
- DP280 ratio  $i = 1.59 - 2.01 - 2.41 - 2.87 - 3.35 - 3.97 - 5.01$
- Regeneration kit



### Medium & Heavy Duty

PRODUCT CODE	DESCRIPTION	MOTOR SIZE	NOMINAL kW	INTERMITTENT kW	BATTERY Vdc	MOTOR rpm
BV101608W	DriveMaster 3W	180-4	2.5	3	48	1500
BV100854W	DriveMaster 7W	180-8	5	7	48	1500
BV100808W	DriveMaster 10W	180-12	8	10	48	1500
BV100810W	DriveMaster 15W	220-20	10	15	48	1500
BV101610W	DriveMaster 20W EVO	220-20 (*)	15	20	48	1500
BV100812W	DriveMaster 20W	220-20	15	20	96	1500
BV101288W	DriveMaster 30W	220-35	25	30	144	1500
BV101642W	DriveMaster 45W	300-50	35	45	144	1500
BV101580W	DriveMaster 55W	300-75	45	55	144	1500

(\*) Special



• Complete the scope of supply by adding control throttle, display, cooling kit, coupling, shaft with propeller