



H106 Thruster with 9300 motor

SPEED RPM	VOLTAGE (VDC)	CURRENT (A rms)	THRUST (Lbf) at Bollard Condition (0 kts) to 6 kts vehicle speed							REVERSE Thrust (lbf)	POWER SHAFT		POWER IN		Efficiency Pout/Pin
			0 kts	1 kts	2 kts	3 kts	4 kts	5 kts	6 kts		(HP)	(watts)	(watts)	(HP)	
100	100.0	1.0	1	-	-	-	-	-	-	1	0.02	14	15	0.0	89.4%
200	100.0	1.4	4	-	-	-	-	-	-	3	0.05	38	41	0.1	92.4%
300	100.0	2.0	8	8	8	7	7	7	6	8	0.11	83	89	0.1	92.6%
400	100.0	2.9	15	14	13	13	12	12	12	13	0.21	159	173	0.2	92.0%
500	100.0	4.1	23	22	21	20	19	19	18	21	0.37	277	304	0.4	91.2%
600	100.0	5.5	33	31	30	29	28	27	26	30	0.60	448	496	0.7	90.2%
700	100.0	7.2	45	43	41	40	38	37	35	41	0.91	681	763	1.0	89.2%
800	108.8	9.1	58	56	54	52	50	48	46	53	1.32	987	1120	1.5	88.1%
900	124.8	11.3	74	71	68	66	63	61	58	68	1.85	1377	1582	2.1	87.1%
1000	141.3	13.8	91	87	84	81	78	75	72	83	2.50	1862	2164	2.9	86.0%
1100	158.5	16.5	110	106	102	98	94	91	87	101	3.28	2451	2884	3.9	85.0%
1200	176.2	19.5	131	126	121	117	112	108	104	120	4.23	3155	3758	5.0	84.0%
1300	194.5	22.7	154	148	142	137	132	127	122	141	5.34	3984	4804	6.4	82.9%
1400	213.4	26.2	178	171	165	159	153	147	141	163	6.63	4949	6040	8.1	81.9%
1500	232.8	29.9	205	197	189	182	175	169	162	188	8.13	6061	7486	10.0	81.0%

NOTES:

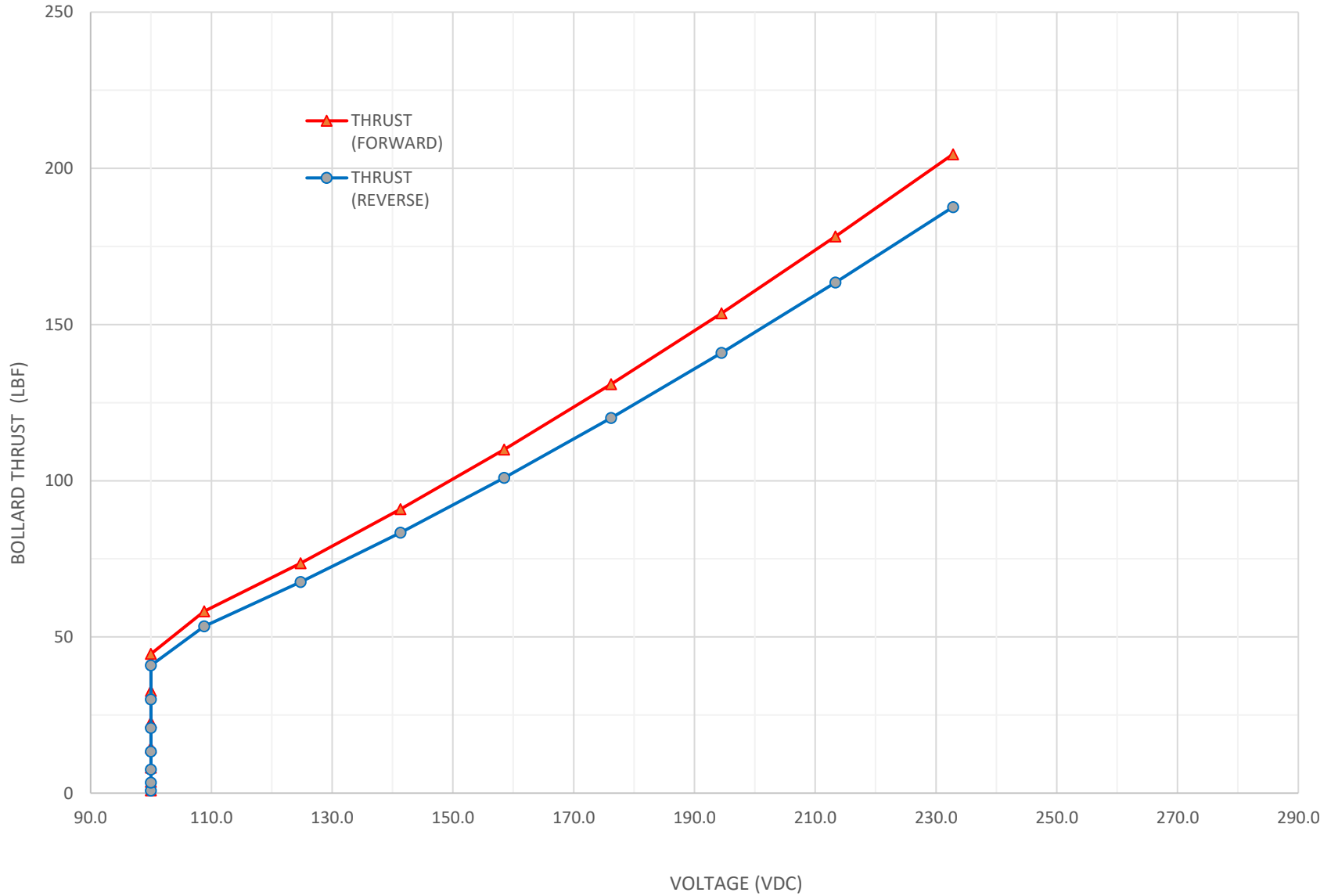
- 1) Voltage in the above chart shows the minimum voltage needed to achieve the performance at that given propeller rpm
- 2) The system voltage should typically be 20-40 VDC higher than the minimum voltage referenced above.
- 3) The Current shown represents the continues RMS current to the motor to achieve the torque at the corresponding propeller rpm.
- 4) The Shaft HP developed is a function of the propeller and increases with propeller rpm.
- 5) The maximum performance achieved will depend on the limitations of customers system voltage and driver current capacity.
- 6) For Thrust at Forward Vehicle Speed (Kts), anything lower than 500 rpm varies greatly with vehicle design.
- 7) Thrust at forward vehicle speed from 1 kts to 6 kts is based on a local water speed with a very conservative vehicle wake factor.
Basically estimated conservatively at worst case from test results of various customer vehicles
- 8) The current/rpm might need to be limited depending on customer connector spec and or system current limitations.
- 9) Performance based on the Innerspace 6 Blade Lenticular Propeller. Other props are available upon request.





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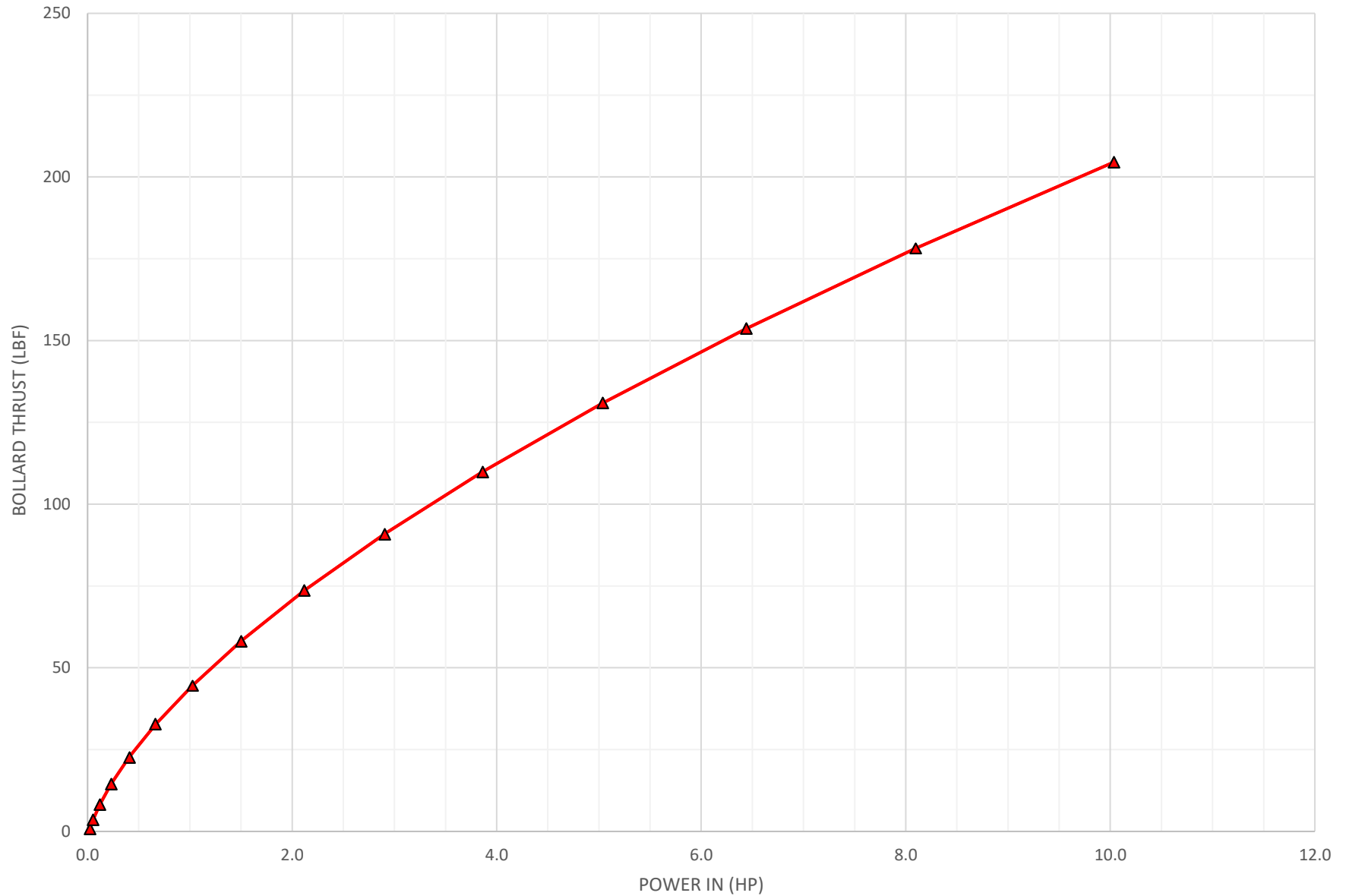
H106-9300 HEXSCREEN ELECTRIC THRUSTER





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