



**H106 Thruster with 9150 motor**

SPEED RPM	VOLTAGE (VDC)	CURRENT (A rms)	THRUST (Lbf) at Bollard Condition (0 kts) to 6 kts vehicle speed							REVERSE	POWER SHAFT		POWER IN		Efficiency
			0 kts	1 kts	2 kts	3 kts	4 kts	5 kts	6 kts	Thrust (lbf)	(HP)	(watts)	(watts)	(HP)	Pout/Pin
100	100.0	1.4	1	-	-	-	-	-	-	1	0.02	14	15	0.0	88.2%
200	100.0	2.0	4	-	-	-	-	-	-	3	0.05	38	41	0.1	91.5%
300	100.0	2.9	8	8	8	7	7	7	6	8	0.11	83	90	0.1	91.7%
400	100.0	4.2	15	14	13	13	12	12	12	13	0.21	159	175	0.2	91.1%
500	100.0	5.8	23	22	21	20	19	19	18	21	0.37	277	307	0.4	90.1%
600	100.0	7.8	33	31	30	29	28	27	26	30	0.60	448	503	0.7	89.1%
700	100.0	10.2	45	43	41	40	38	37	35	41	0.91	681	774	1.0	87.9%
800	100.0	12.9	58	56	54	52	50	48	46	53	1.32	987	1138	1.5	86.8%
900	100.0	16.0	74	71	68	66	63	61	58	68	1.85	1377	1609	2.2	85.6%
1000	106.8	19.5	91	87	84	81	78	75	72	83	2.50	1862	2204	3.0	84.5%
1050	113.3	21.4	100	96	93	89	86	83	80	92	2.87	2142	2554	3.4	83.9%
1100	119.9	23.3	110	106	102	98	94	91	87	101	3.28	2451	2941	3.9	83.3%
1150	126.7	25.4	120	116	111	107	103	99	95	110	3.74	2788	3368	4.5	82.8%
1200	133.5	27.5	131	126	121	117	112	108	104	120	4.23	3155	3838	5.1	82.2%
1250	140.4	29.8	142	137	132	127	122	117	113	130	4.76	3553	4351	5.8	81.6%

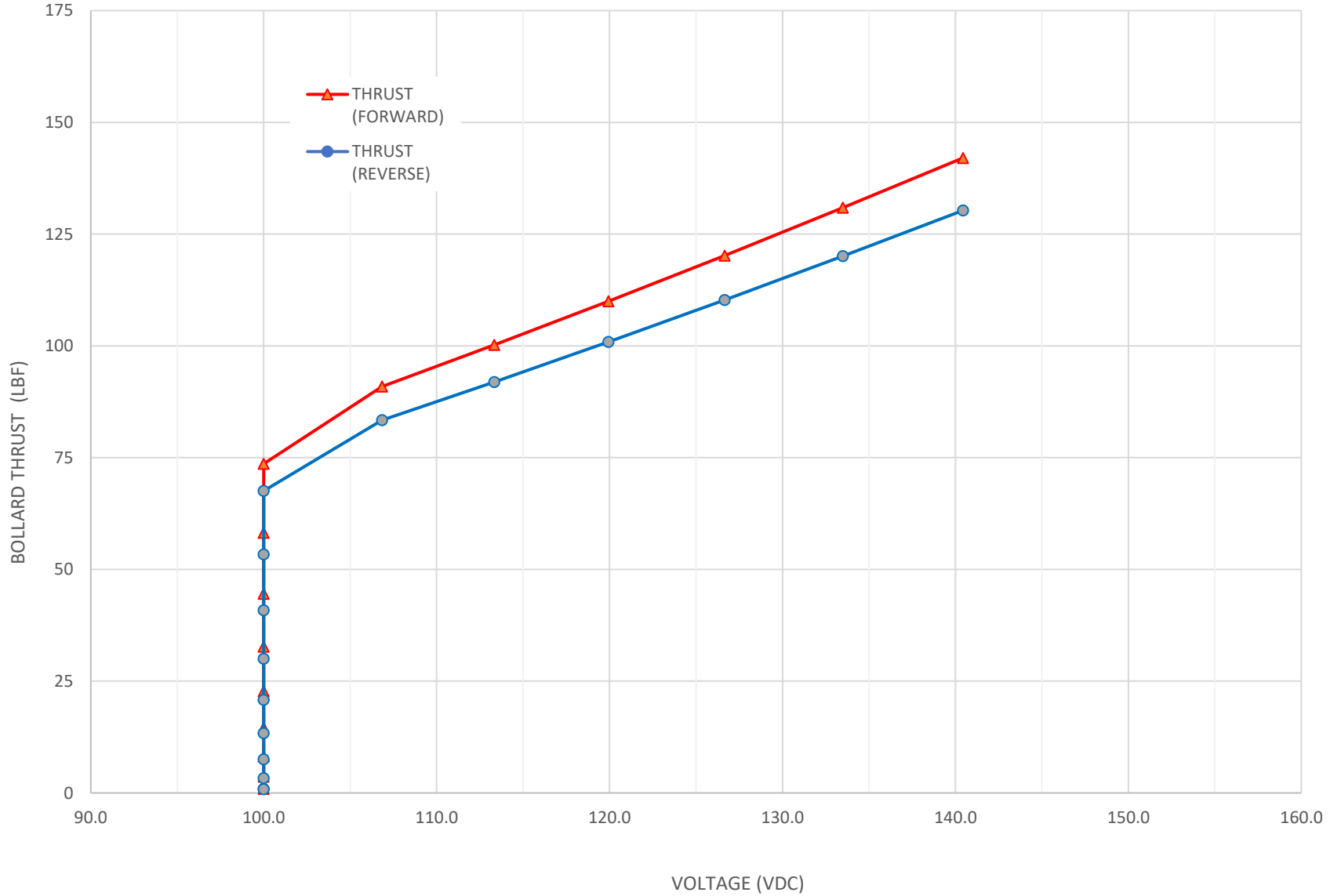
**NOTES:**

- 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.



**INNERSPACE CORPORATION**  
1138 E. EDNA PLACE, COVINA, CA 91724  
TEL: (626) 331-0921 FAX: (626) 966-6391  
www.innerspacethrusters.com

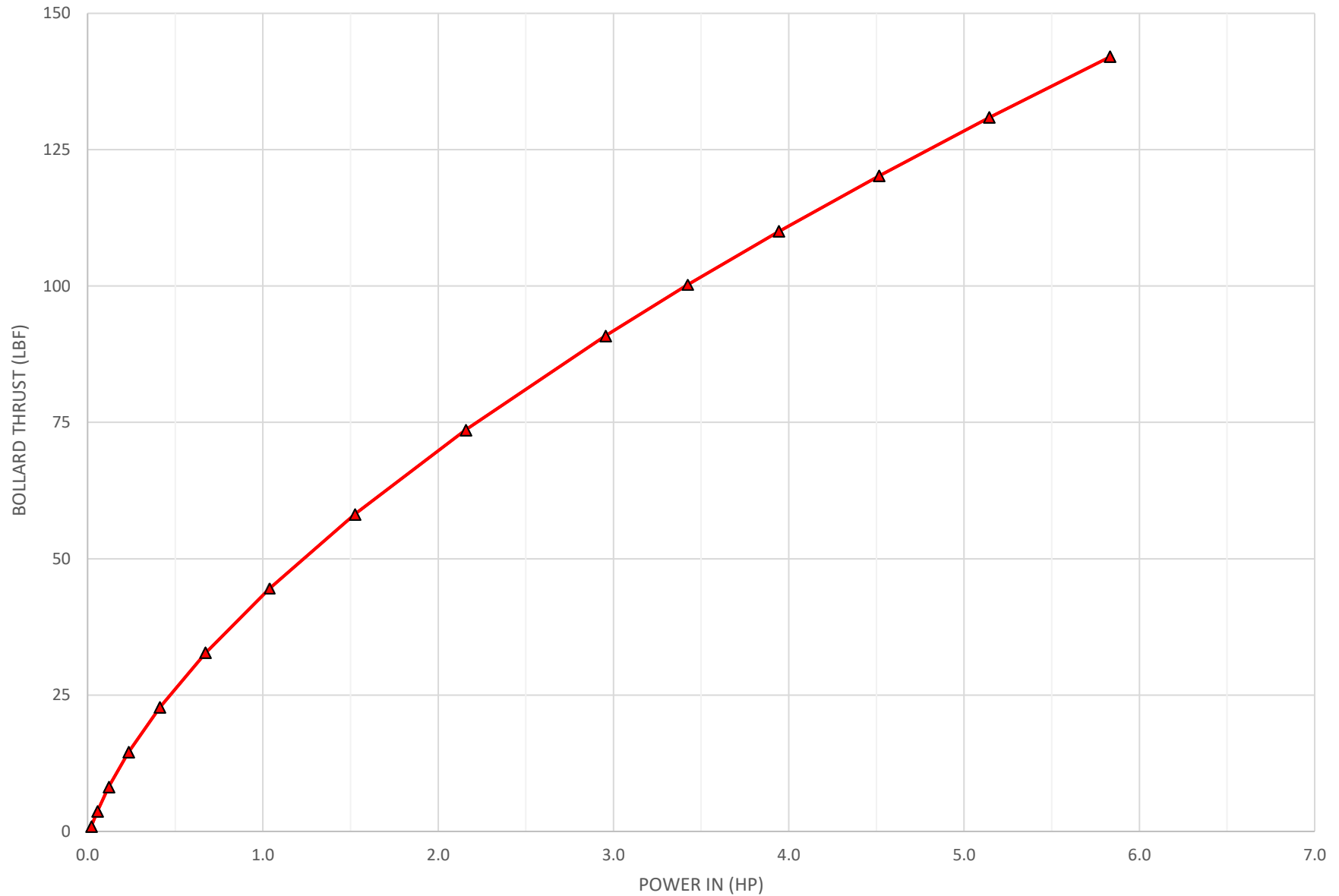
### H106-9150 HEXSCREEN ELECTRIC THRUSTER





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