



**1002H Hexscreen Electric Thruster with 14150 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	1.5	1	-	-	-	-	-	-	1	0.02	13	13	0.017	96.3%
200	100.0	1.8	4	-	-	-	-	-	-	3	0.04	31	32	0.043	97.7%
300	100.0	2.4	6	-	-	-	-	-	-	5	0.08	61	62	0.083	98.0%
400	100.0	3.1	15	14	14	13	12	11	11	13	0.14	108	110	0.15	98.0%
500	100.0	4.1	24	23	22	21	20	19	18	21	0.24	177	181	0.2	97.9%
600	100.0	5.3	35	32	30	28	26	25	24	30	0.37	275	282	0.4	97.7%
800	100.0	8.4	61	58	56	53	51	48	46	54	0.78	579	594	0.8	97.3%
1000	100.0	12.3	95	91	87	83	79	75	72	86	1.43	1064	1098	1.5	96.9%
1100	100.0	14.6	115	110	105	100	96	91	87	105	1.86	1388	1437	1.9	96.6%
1200	100.0	17.2	137	131	125	119	114	109	104	124	2.38	1775	1842	2.5	96.4%
1300	100.0	19.9	160	153	146	139	133	127	121	143	2.99	2231	2320	3.1	96.2%
1400	107.8	22.9	186	178	170	162	154	147	141	168	3.70	2759	2877	3.9	95.9%
1500	116.0	26.0	213	203	194	185	177	169	161	192	4.51	3368	3520	4.7	95.7%
1600	124.3	29.4	243	232	221	211	202	193	184	220	5.44	4061	4256	5.7	95.4%
1700	132.6	33.0	274	262	250	238	228	217	207	246	6.49	4845	5091	6.8	95.2%
1800	141.0	36.9	307	293	280	267	255	243	232	278	7.68	5726	6032	8.1	94.9%
1900	149.5	40.9	342	326	312	298	284	271	259	309	8.99	6708	7085	9.5	94.7%

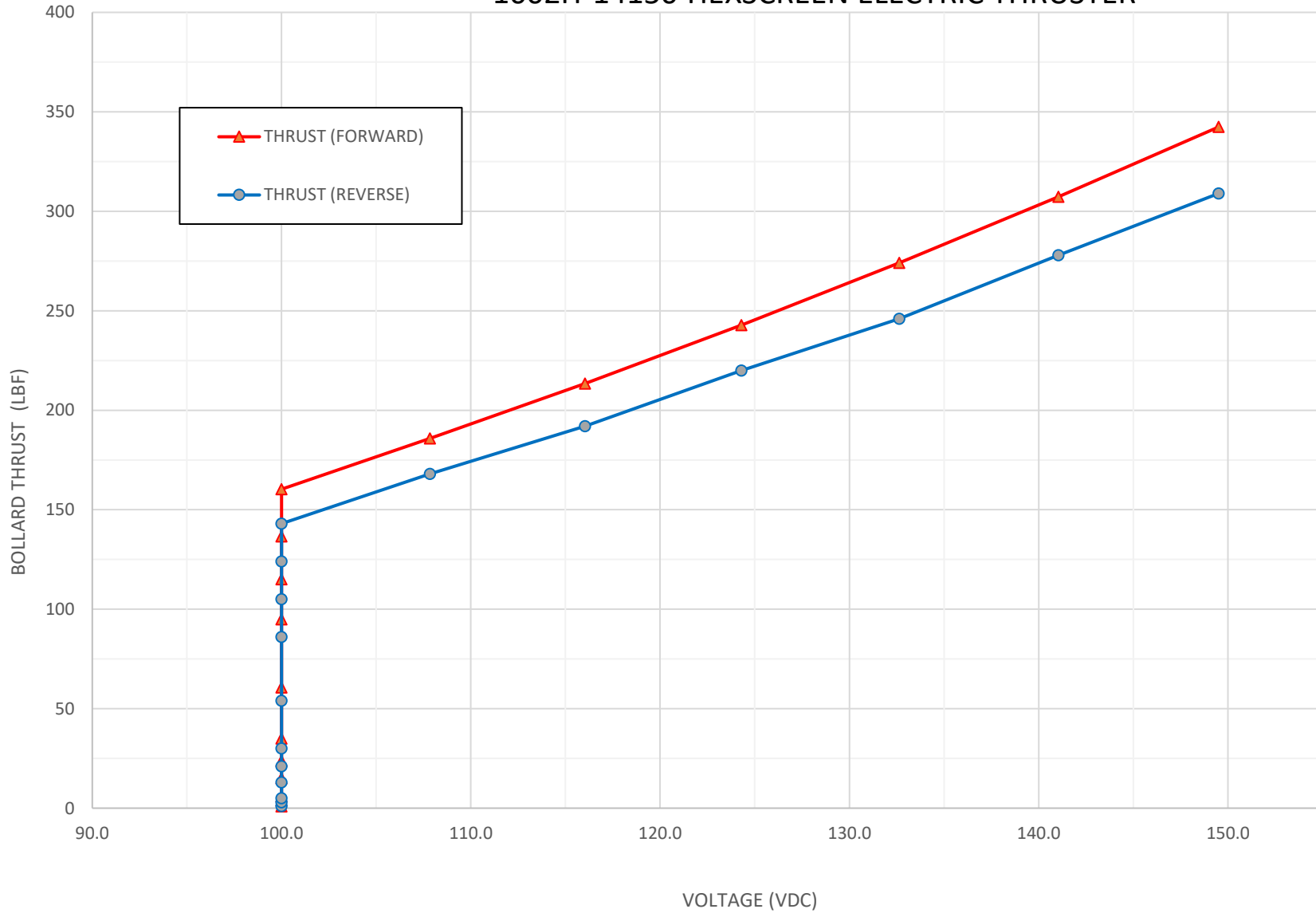
**NOTES:**

- 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 continuous 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.



**INNERSPACE CORPORATION**  
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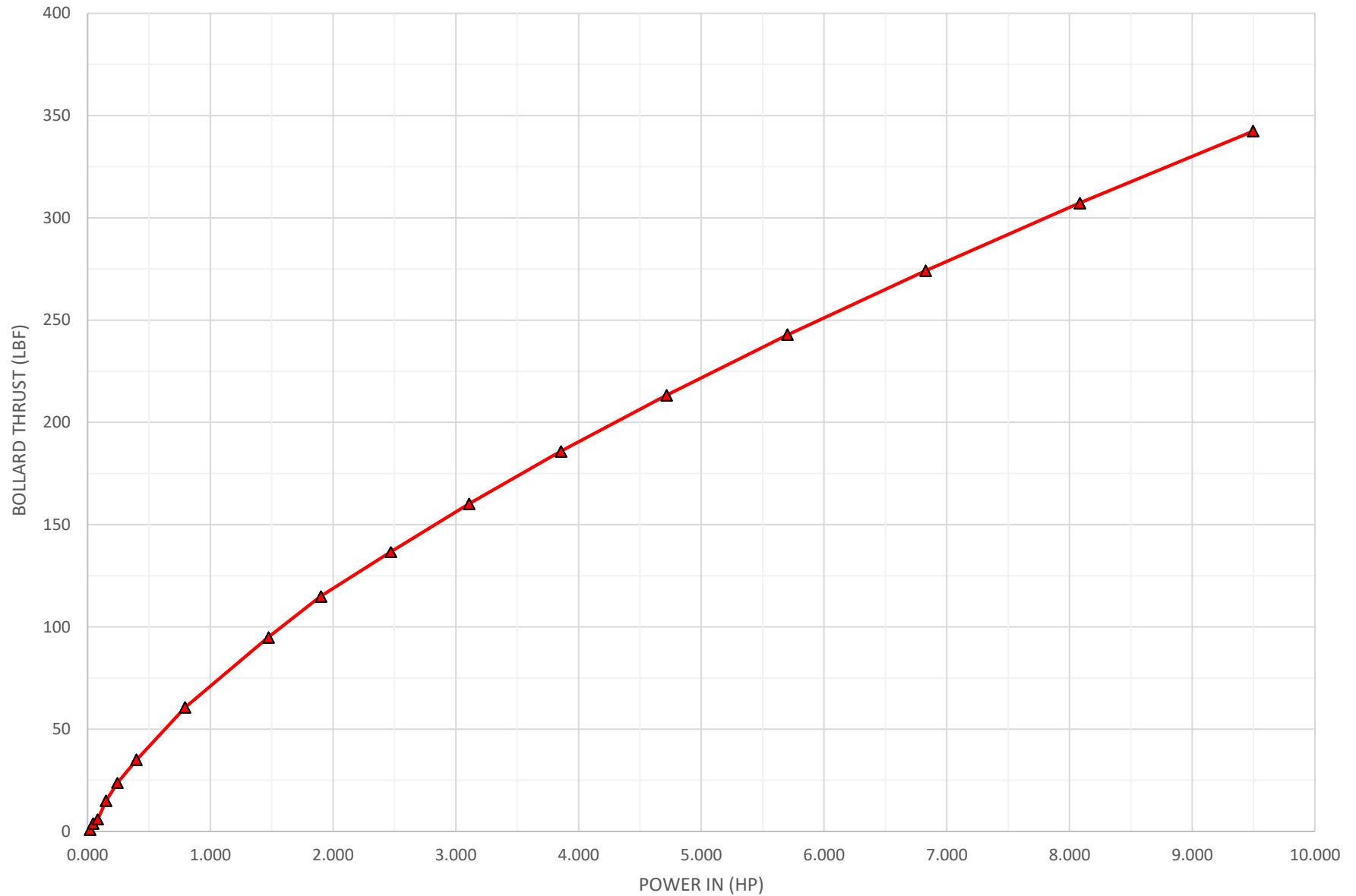
## 1002H-14150 HEXSCREEN ELECTRIC THRUSTER





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