INNERSPACE CORPORATION
1138 E. EDNA PLACE, COVINA, CA 91724
TEL: (626) 331-0921 FAX: (626) 966-6391
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NOMINAL VOLTAGE: 300 VDC

1002H Hexscreen Electric Thruster with 14300R Motor Performance Table

Speed	System Voltage	Min Voltage	Current	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency
(RPM)	(VDC)	(VDC)	(A rms)	0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	(Pout/Pin)
100	300	11.7	1.0	1	0.4	1	0.4	0.02	13	13	0.0	96.4%
250	300	28.6	1.3	6	2.7	5	2.4	0.06	44	45	0.1	97.9%
500	300	57.1	2.7	24	10.8	21	9.7	0.24	177	181	0.2	97.9%
800	300	92.2	5.5	61	27.5	55	25.0	0.78	579	594	0.8	97.4%
1000	300	116.2	8.0	95	43.0	86	39.0	1.43	1064	1097	1.5	96.9%
1200	300	140.6	11.2	137	62.0	124	56.1	2.38	1775	1840	2.5	96.5%
1300	300	152.9	13.0	160	72.7	145	65.9	2.99	2231	2318	3.1	96.2%
1400	300	165.3	14.9	186	84.3	168	76.4	3.70	2759	2874	3.9	96.0%
1500	300	177.9	17.0	213	96.8	193	87.7	4.51	3368	3517	4.7	95.8%
1600	300	190.5	19.2	243	110.1	220	99.8	5.44	4061	4252	5.7	95.5%
1700	300	203.3	21.5	274	124.3	248	112.7	6.49	4845	5086	6.8	95.3%
1800	300	216.2	24.0	307	139.4	279	126.3	7.68	5726	6025	8.1	95.0%
1900	300	229.1	26.7	342	155.3	310	140.8	8.99	6708	7077	9.5	94.8%
2000	300	242.2	29.4	379	172.1	344	156.0	10.45	7798	8249	11.1	94.5%
2100	300	255.4	32.4	418	189.7	379	171.9	12.07	9002	9547	12.8	94.3%

Table Information:

1) The Minimum Voltage column in the above table shows the minimum Voltage needed to achieve the performance at that corrosponding propeller RPM/Thrust.
2) The Current shown represents the continues RMS Current to the motor to achieve the Thrust at the corresponding propeller RPM.
3) The Shaft HP developed is a function of the propeller and increases with propeller RPM.
4) The maximum performance achieved will depend on the limitations of customers system Voltage and driver Current capacity.
5) For Thrust at Forward Vehicle Speed (Kts), anything lower than 500 RPM varies greatly with vehicle design.
6) The Current/RPM might need to be limited depending on customer connector spec and or system Current limitations.
7) Minimum Voltage to achieve full Thrust is 255 VDC.
8) Max Voltage should not exceed 10% of rated Voltage.

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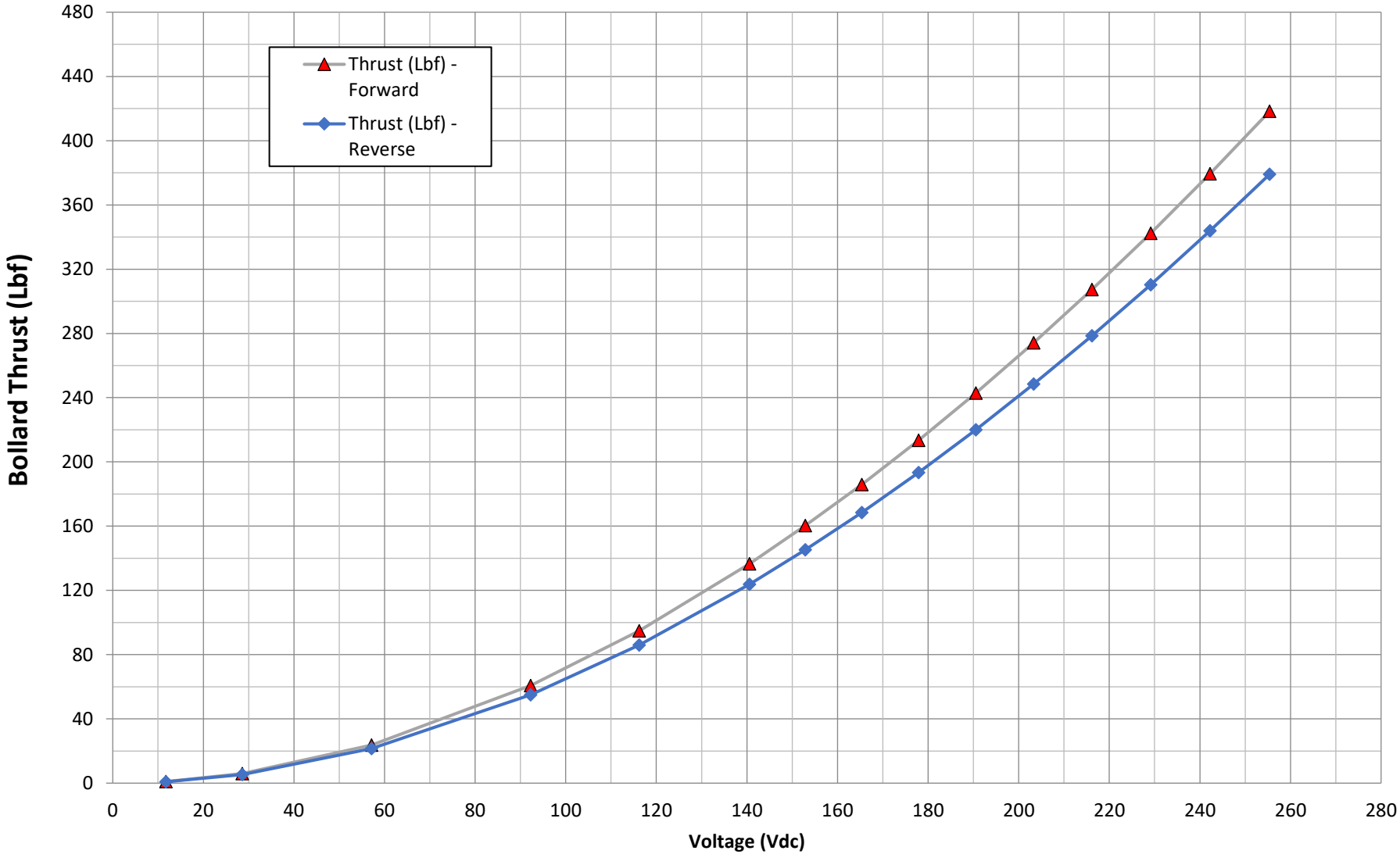
1002H-14300R Hexscreen Electric Thruster
Thrust (Lbf) vs Voltage (Vdc)



Note:
System Voltage equals 300 Vdc. Graph shows Thrust with Voltages below 300 Vdc.

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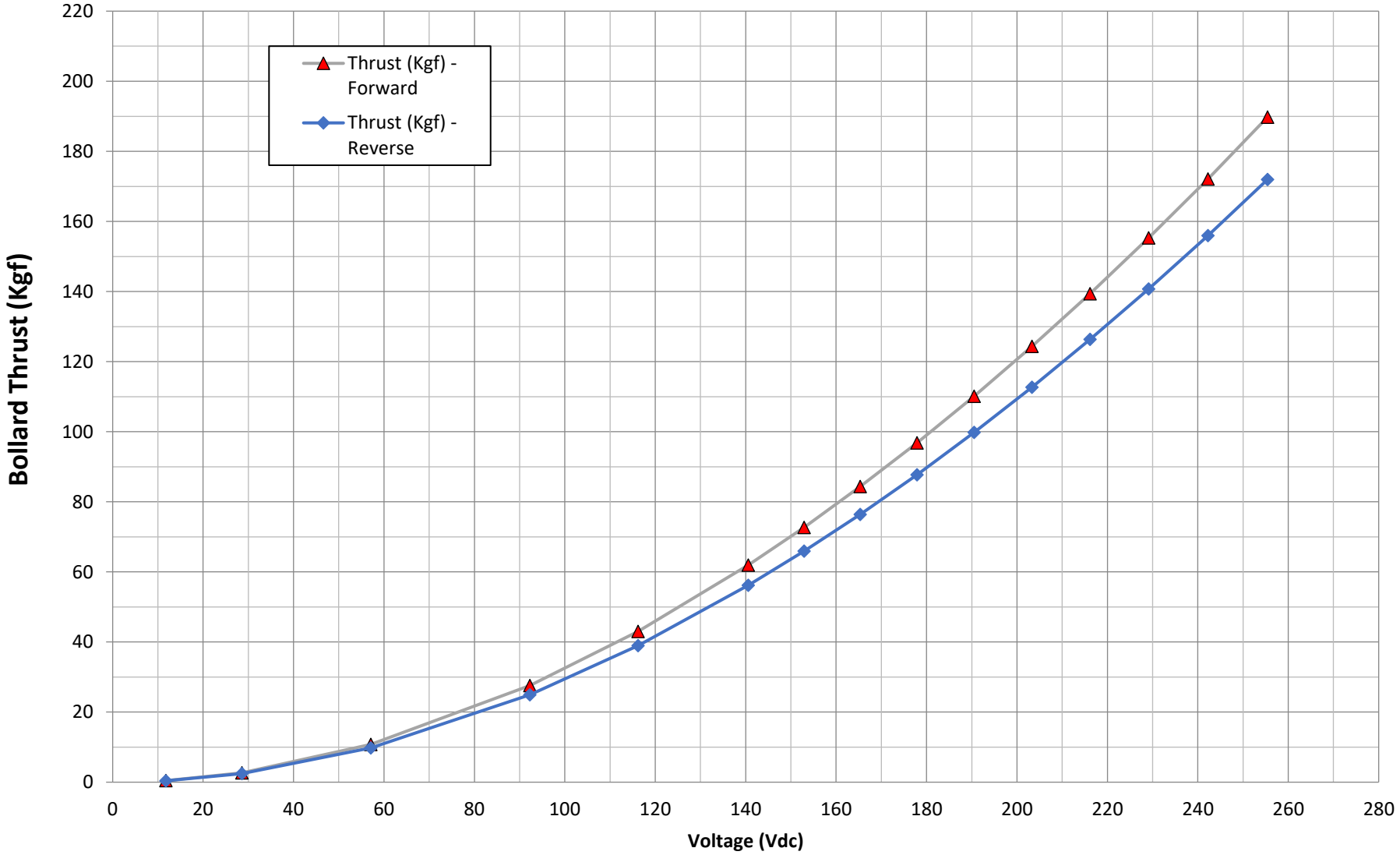
Thrust (Kgf) vs Voltage (Vdc)



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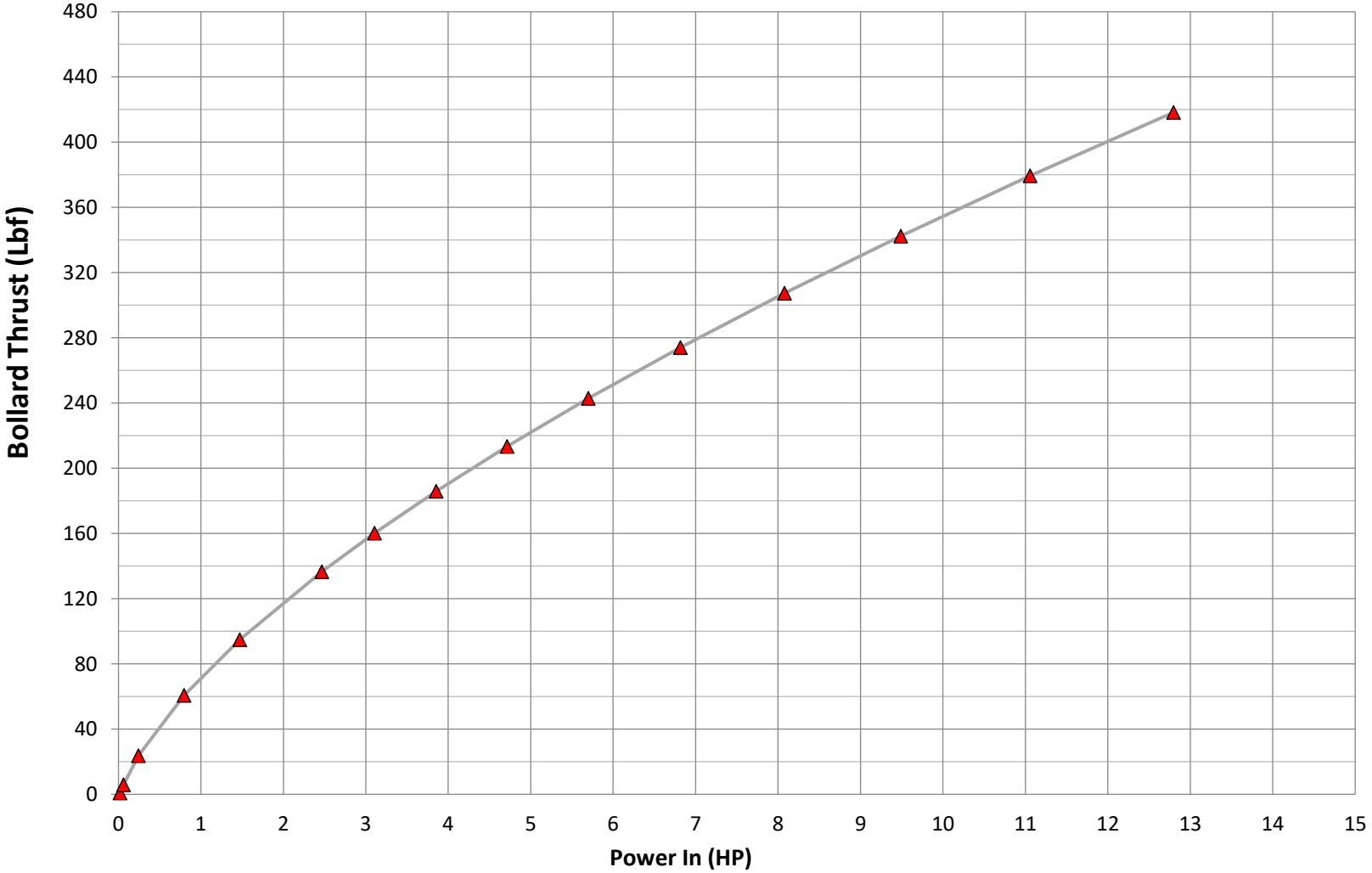
1002H-14300R Hexscreen Electric Thruster
Thrust (Lbf) vs Power In (HP)



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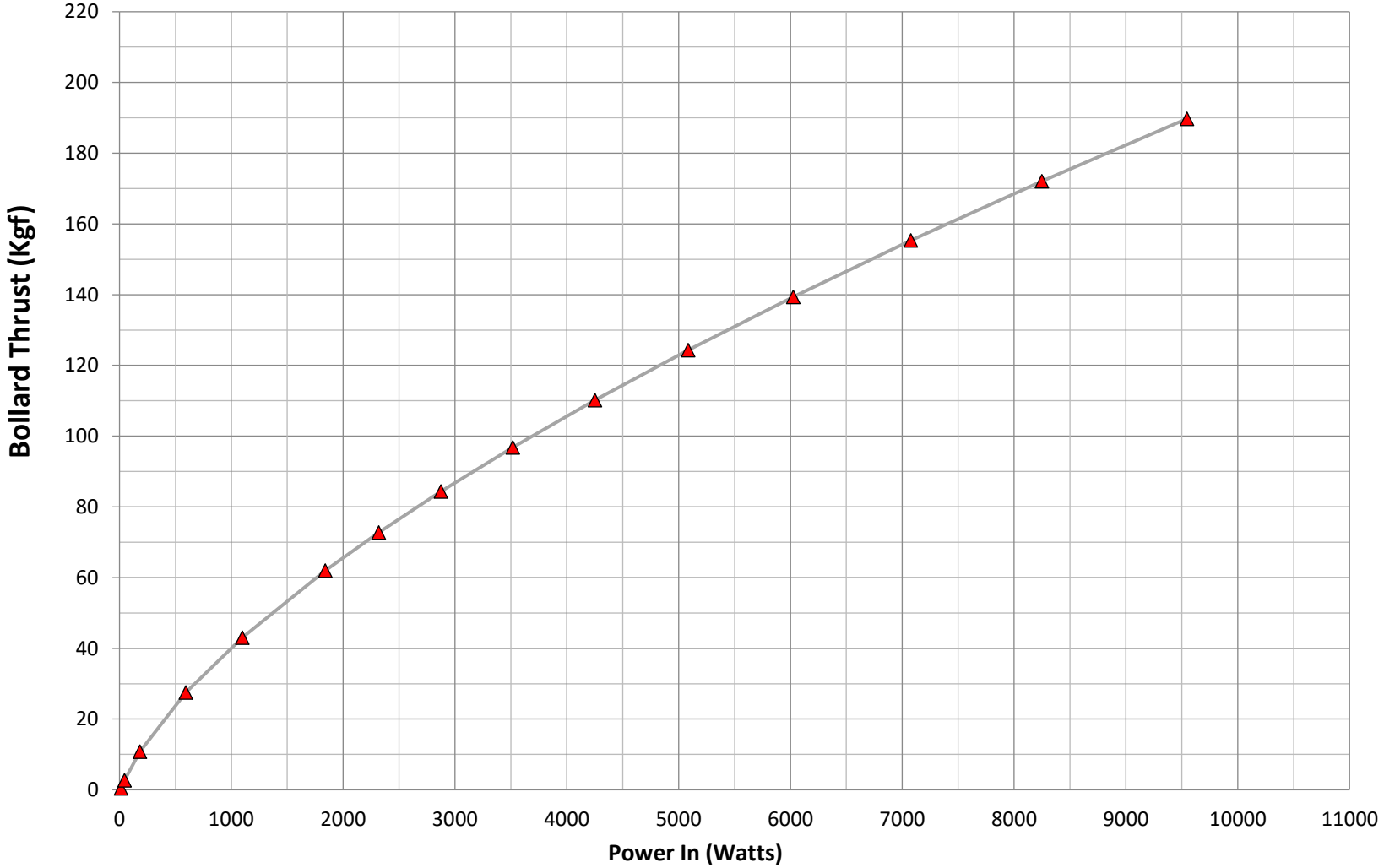
1002H-14300R Hexscreen Electric Thruster
Thrust (Kgf) vs Power In (Watts)



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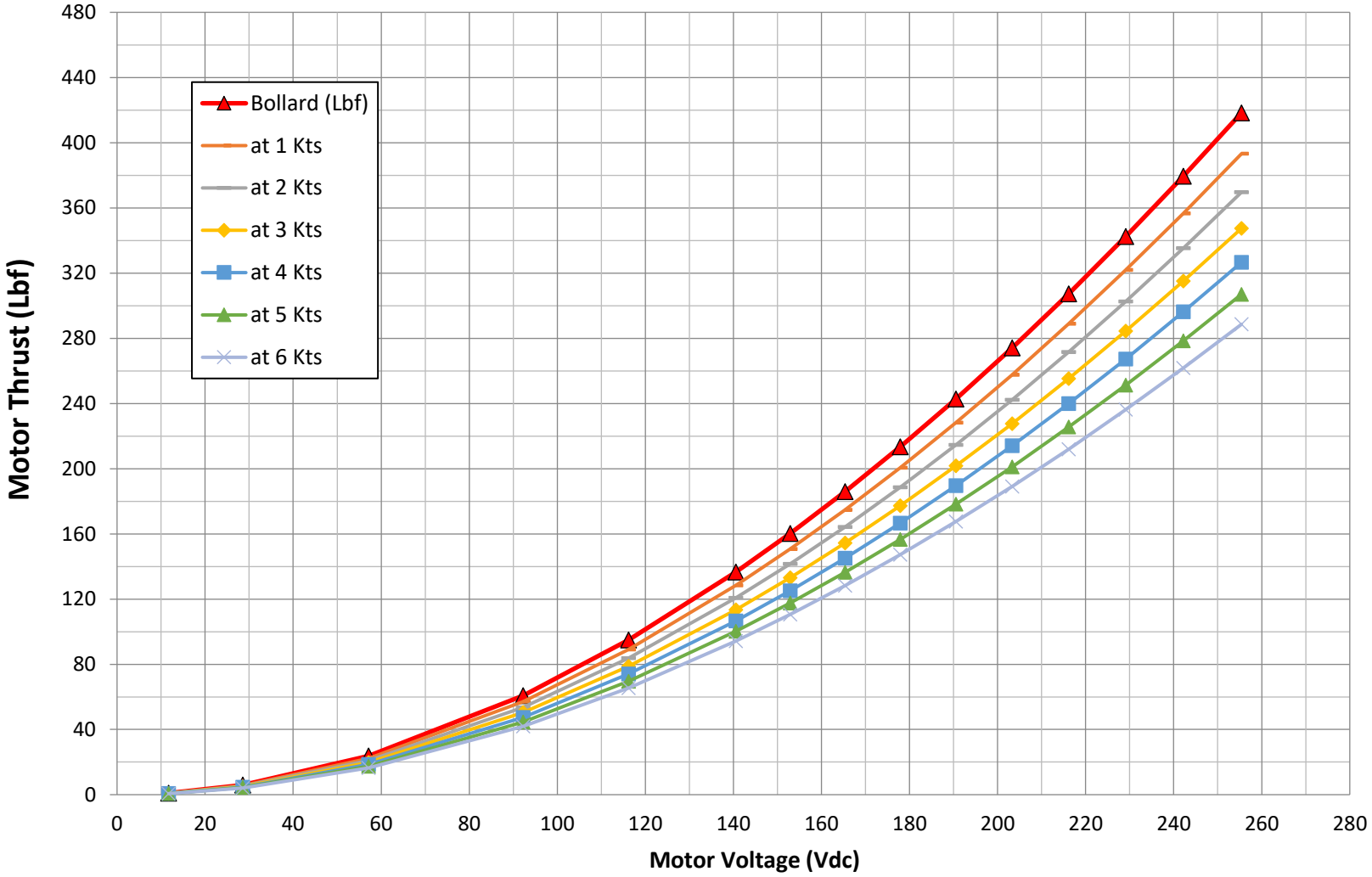
Thrust (Lbf) vs Voltage (Vdc)



Note:
1) For Thrust at Forward Vehicle Speed (Kts), anything lower than 500 RPM varies greatly with vehicle design.
2) 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.
3) System Voltage equals 300 Vdc. Graph shows Thrust with Voltages below 300 Vdc.

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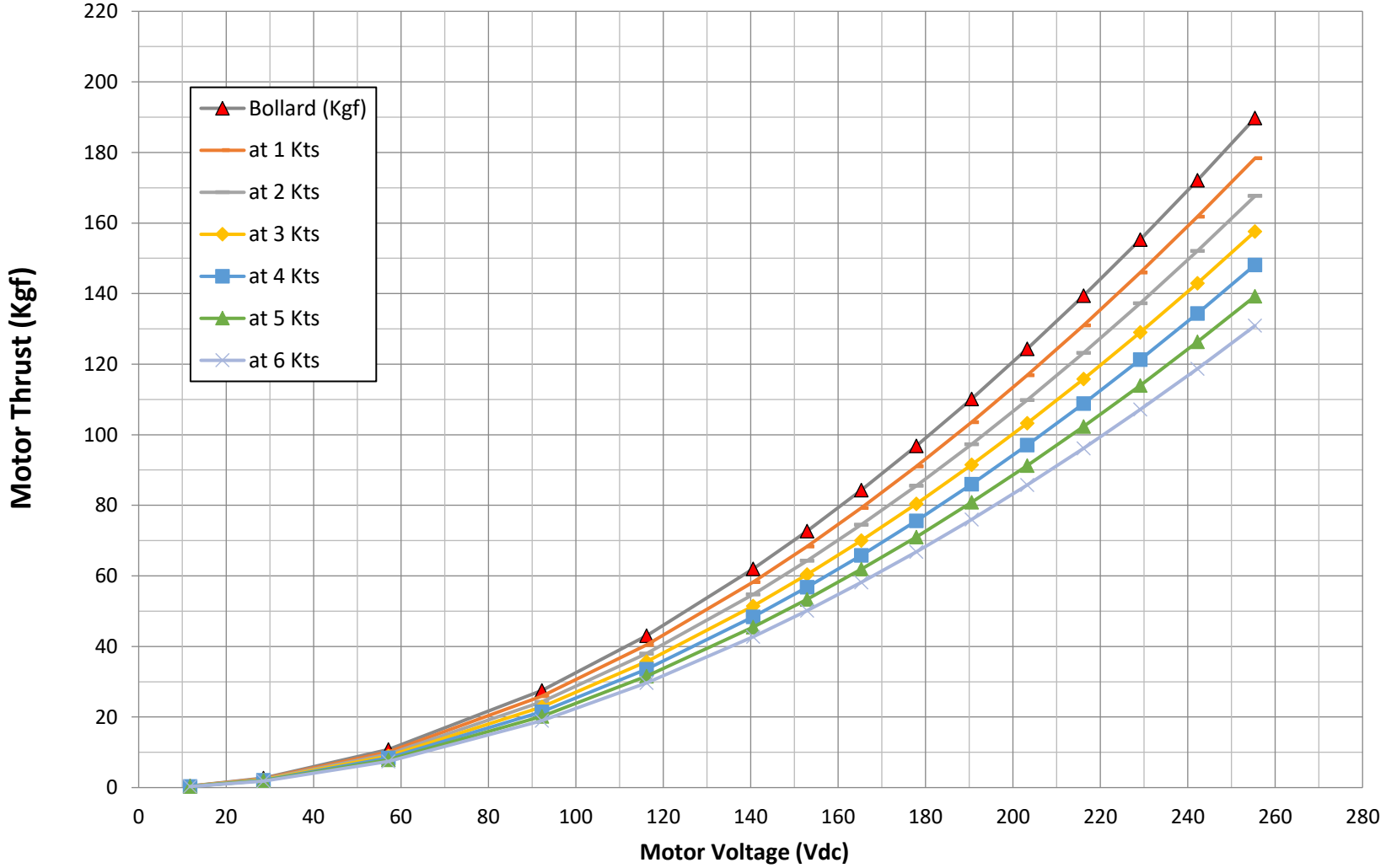
Thrust (Kgf) vs Voltage (Vdc)



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