



1002H Hexscreen Electric Thruster with 14300R Motor Performance Table

Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	300	100.0	1.0	1	0.4	1	0.5	0.02	13	13	0.0	96.4%
200	300	100.0	1.2	4	1.7	3	1.4	0.04	31	32	0.0	97.7%
300	300	100.0	1.4	6	2.7	5	2.3	0.06	44	45	0.1	97.9%
400	300	100.0	2.0	15	6.8	13	5.9	0.14	108	110	0.1	97.9%
500	300	100.0	2.7	24	10.8	21	9.5	0.24	177	181	0.2	97.9%
600	300	100.0	3.5	35	15.9	30	13.6	0.37	275	281	0.4	97.7%
800	300	100.0	5.5	61	27.5	54	24.5	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%
1100	300	128.3	9.5	115	52.2	105	47.6	1.86	1388	1435	1.9	96.7%
1200	300	140.6	11.2	137	62.0	124	56.2	2.38	1775	1840	2.5	96.5%
1300	300	152.9	13.0	160	72.7	143	64.9	2.99	2231	2318	3.1	96.2%
1400	300	165.3	14.9	186	84.3	168	76.2	3.70	2759	2874	3.9	96.0%
1500	300	177.9	17.0	213	96.8	192	87.1	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	246	111.6	6.49	4845	5086	6.8	95.3%
1800	300	216.2	24.0	307	139.4	278	126.1	7.68	5726	6025	8.1	95.0%
1900	300	229.1	26.7	342	155.3	309	140.2	8.99	6708	7077	9.5	94.8%
2000	300	242.2	29.4	380	172.4	342	155.1	10.45	7798	8249	11.1	94.5%
2100	300	255.4	32.4	419	190.1	375	170.1	12.07	9002	9547	12.8	94.3%

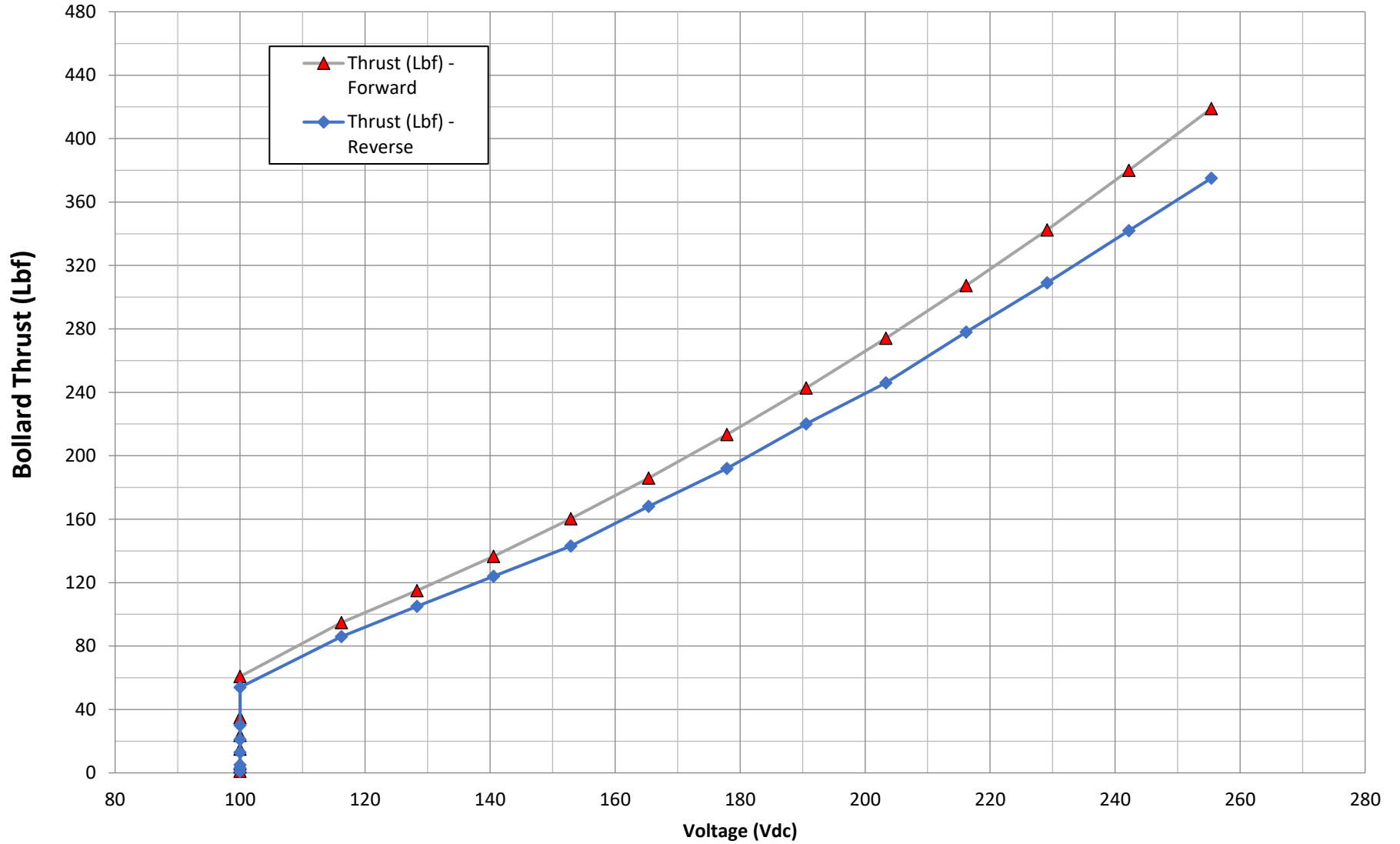
Table Information:

- 1) The Minimum Voltage column in the above table shows the minimum Voltage needed to achieve the performance at that corresponding 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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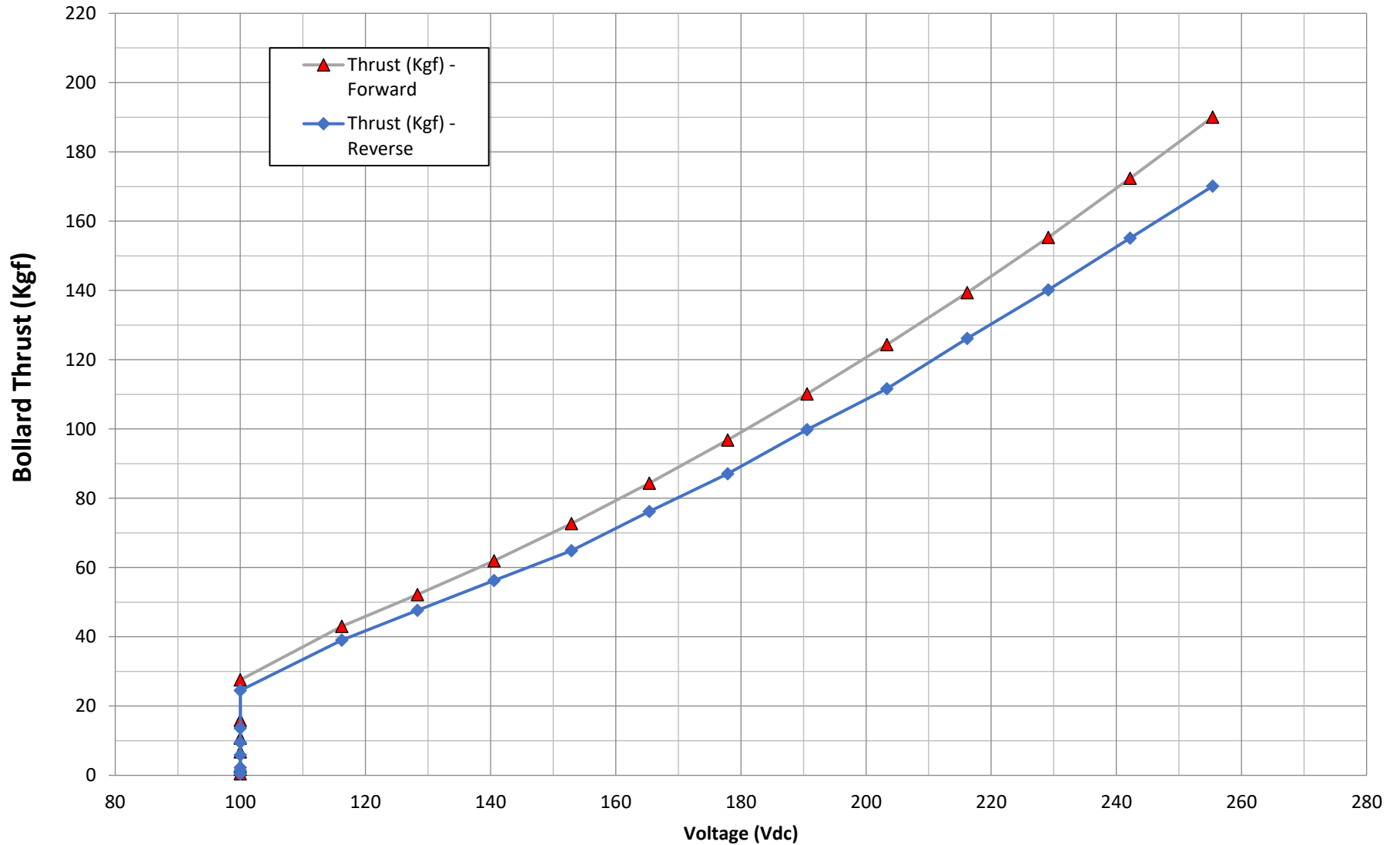
1002H-14300R Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



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



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

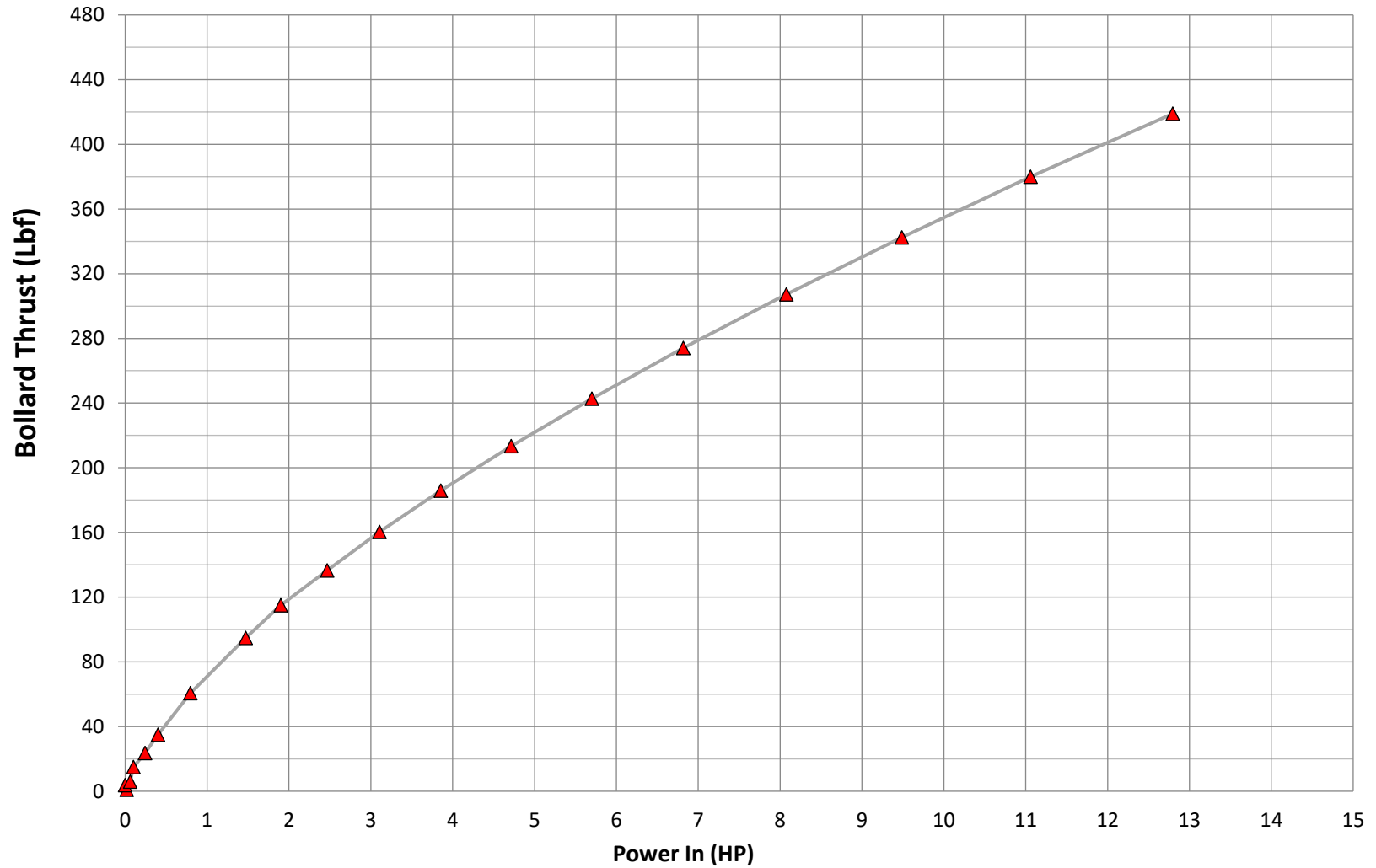


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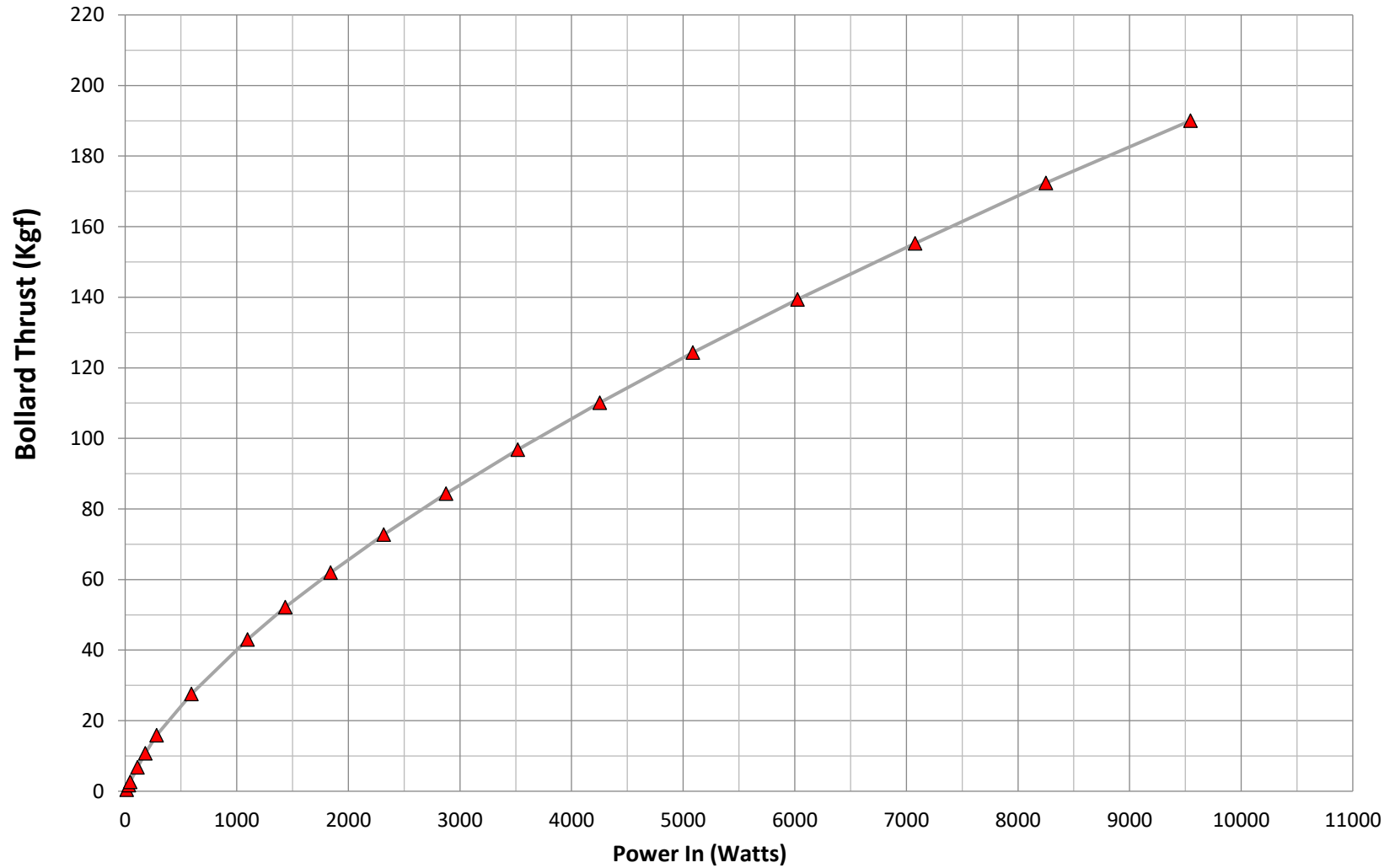
1002H-14300R Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





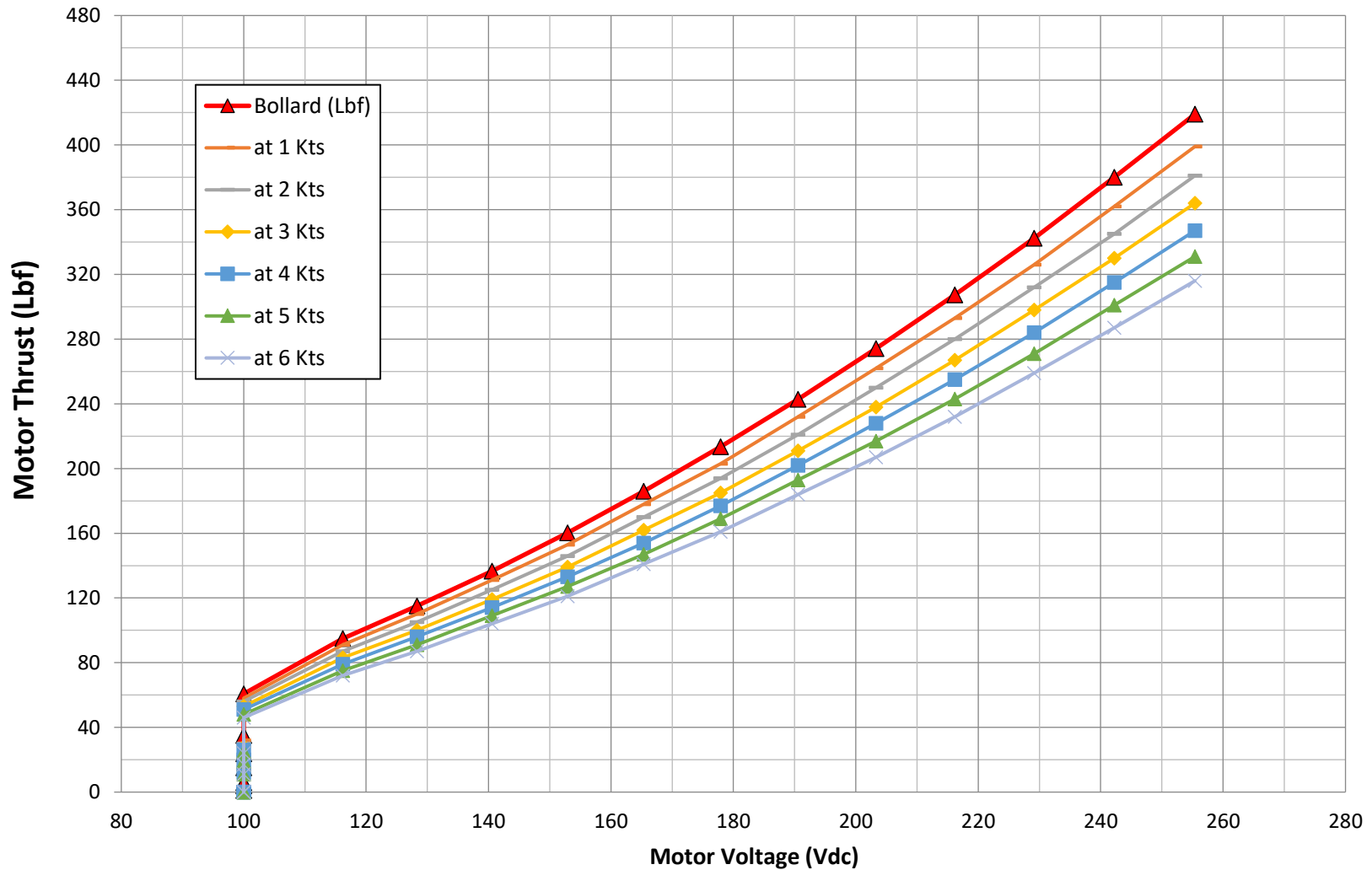
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1002H-14300R Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





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

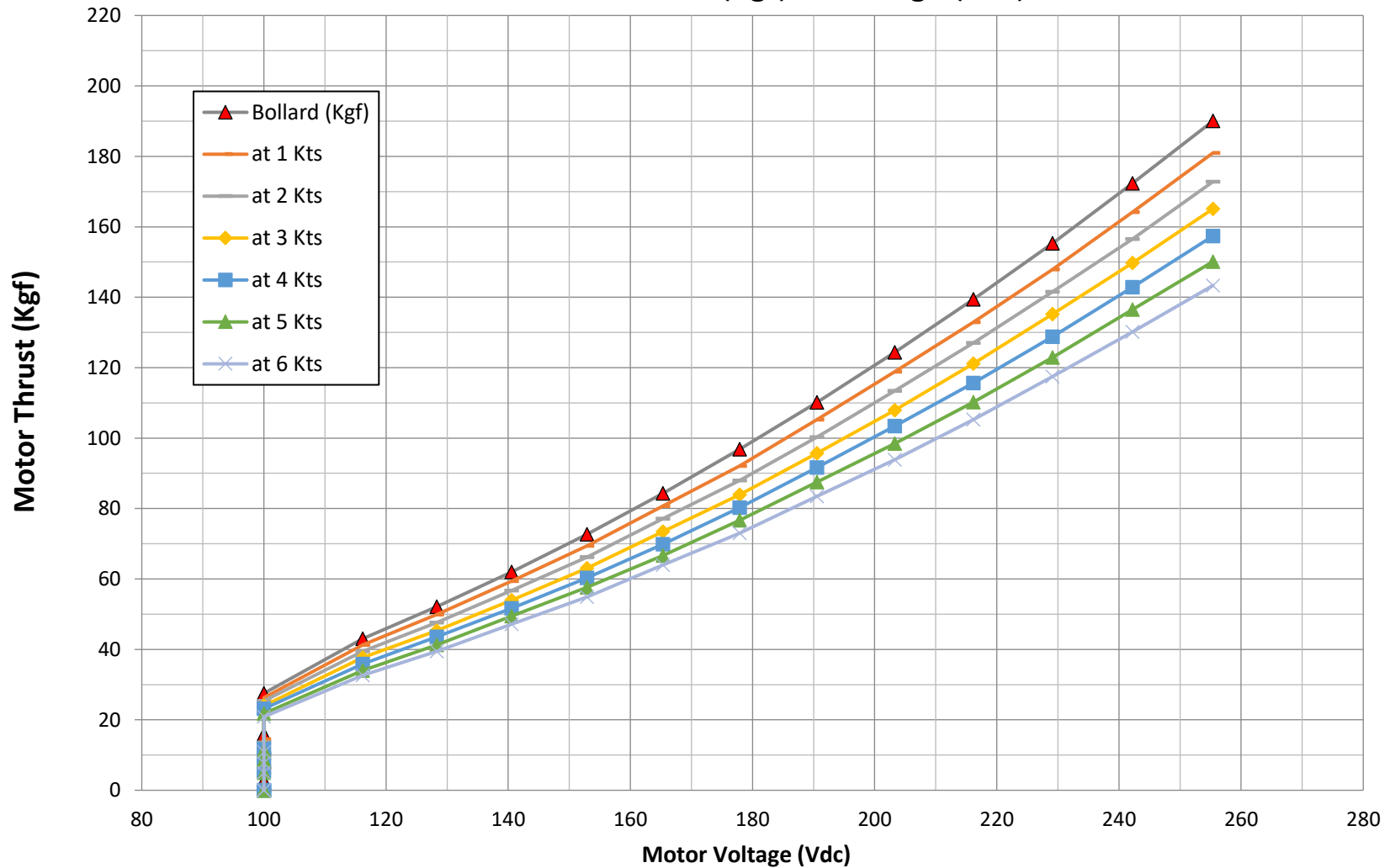


Note:

- 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.



1002H-14300R Hexscreen Electric Thruster Thrust (Kgf) 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.