

1002H Hexscreen Electric Thruster with 14600R Motor Performance Table

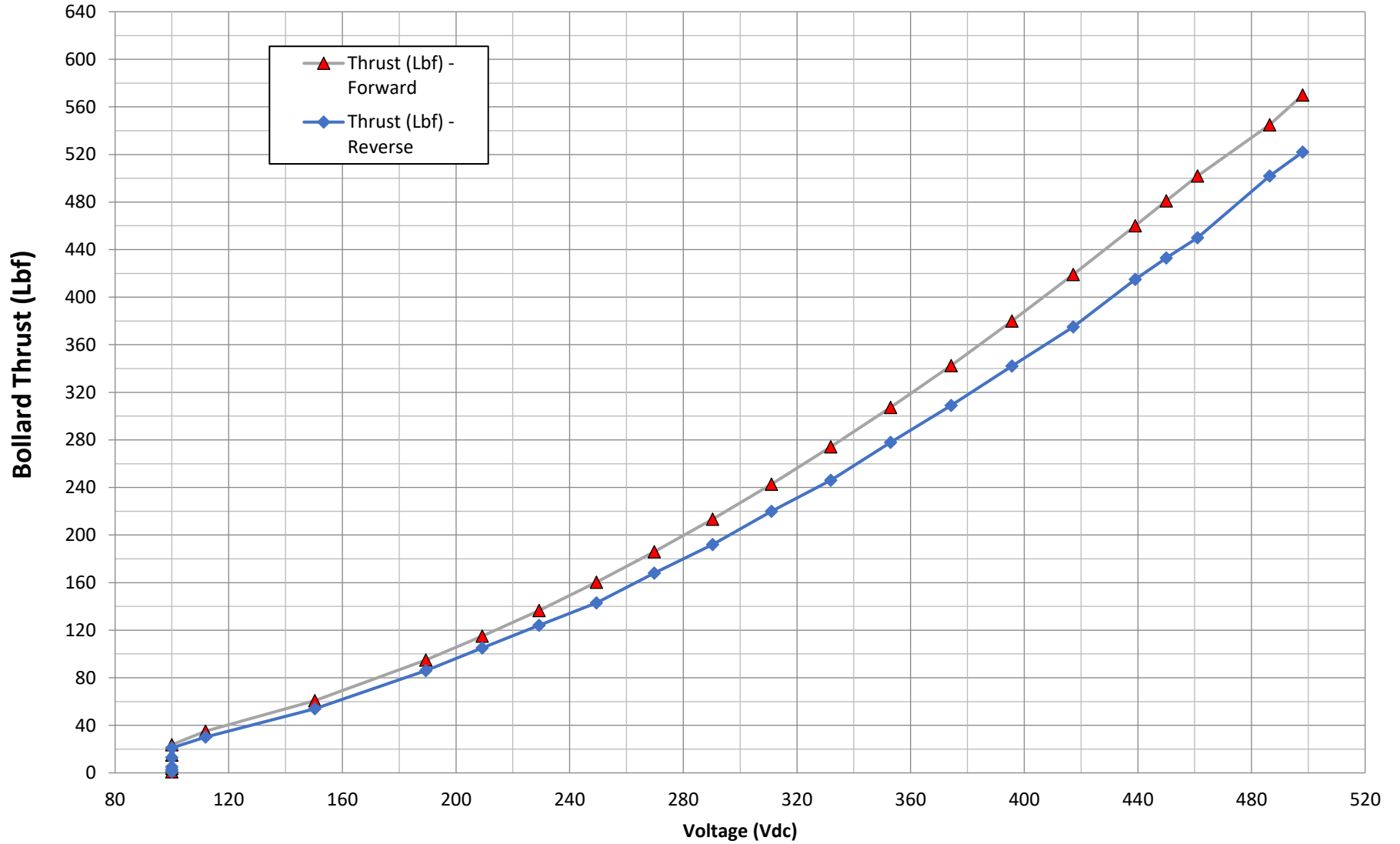
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	600	100.0	0.5	1	0.4	1	0.5	0.01	10	11	0.0	96.9%
200	600	100.0	0.6	4	1.7	3	1.4	0.04	27	27	0.0	98.0%
300	600	100.0	0.8	6	2.7	5	2.3	0.07	54	55	0.1	98.2%
400	600	100.0	1.1	15	6.8	13	5.9	0.13	98	100	0.2	98.1%
500	600	100.0	1.5	24	10.8	21	9.5	0.22	165	169	0.3	98.0%
600	600	111.8	2.0	35	15.9	30	13.6	0.35	261	267	0.4	97.8%
800	600	150.3	3.2	61	27.5	54	24.5	0.75	560	575	0.8	97.4%
1000	600	189.4	4.8	95	43.0	86	39.0	1.39	1040	1073	1.4	96.9%
1100	600	209.2	5.7	115	52.2	105	47.6	1.83	1362	1410	1.9	96.6%
1200	600	229.2	6.8	137	62.0	124	56.2	2.34	1747	1812	2.4	96.4%
1300	600	249.4	7.8	160	72.7	143	64.9	2.95	2200	2288	3.1	96.1%
1400	600	269.8	9.0	186	84.3	168	76.2	3.65	2726	2843	3.8	95.9%
1500	600	290.3	10.3	213	96.8	192	87.1	4.47	3332	3485	4.7	95.6%
1600	600	311.0	11.7	243	110.1	220	99.8	5.39	4023	4219	5.7	95.4%
1700	600	331.9	13.1	274	124.3	246	111.6	6.44	4805	5052	6.8	95.1%
1800	600	353.0	14.6	307	139.4	278	126.1	7.62	5683	5991	8.0	94.9%
1900	600	374.3	16.3	342	155.3	309	140.2	8.93	6663	7043	9.4	94.6%
2000	600	395.7	18.0	380	172.4	342	155.1	10.39	7751	8215	11.0	94.3%
2100	600	417.3	19.8	419	190.1	375	170.1	12.00	8953	9514	12.8	94.1%
2200	600	439.1	21.7	460	208.7	415	188.2	13.77	10273	10947	14.7	93.8%
2250	600	450.0	22.6	481	218.2	433	196.4	14.72	10980	11716	15.7	93.7%
2300	600	461.1	23.6	502	227.7	450	204.1	15.71	11718	12521	16.8	93.6%
2400	600	486.4	24.8	545	247.2	502	227.7	17.90	13351	14394	19.3	92.8%
2450	600	498.0	27.0	570	258.5	523	237.2	19.02	14191	15321	20.5	92.6%

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 498 VDC.
- 8) Max Voltage should not exceed 10% of rated Voltage.



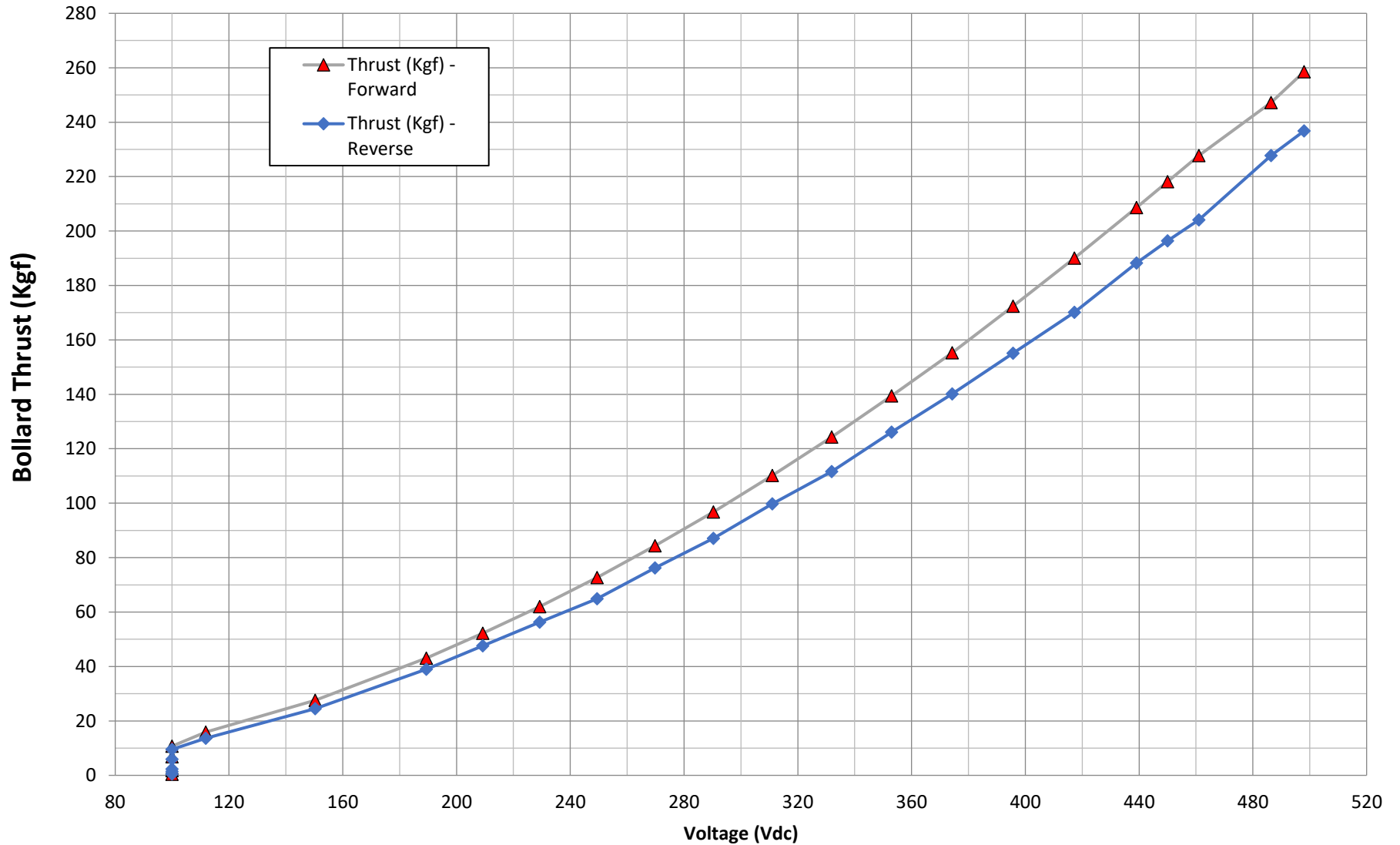
1002H-14600R Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



Note:
System Voltage equals 600VDC. Graph shows Thrust with Voltages below 600VDC.



1002H-14600R Hexscreen Electric Thruster Thrust (Kgf) vs Voltage (Vdc)

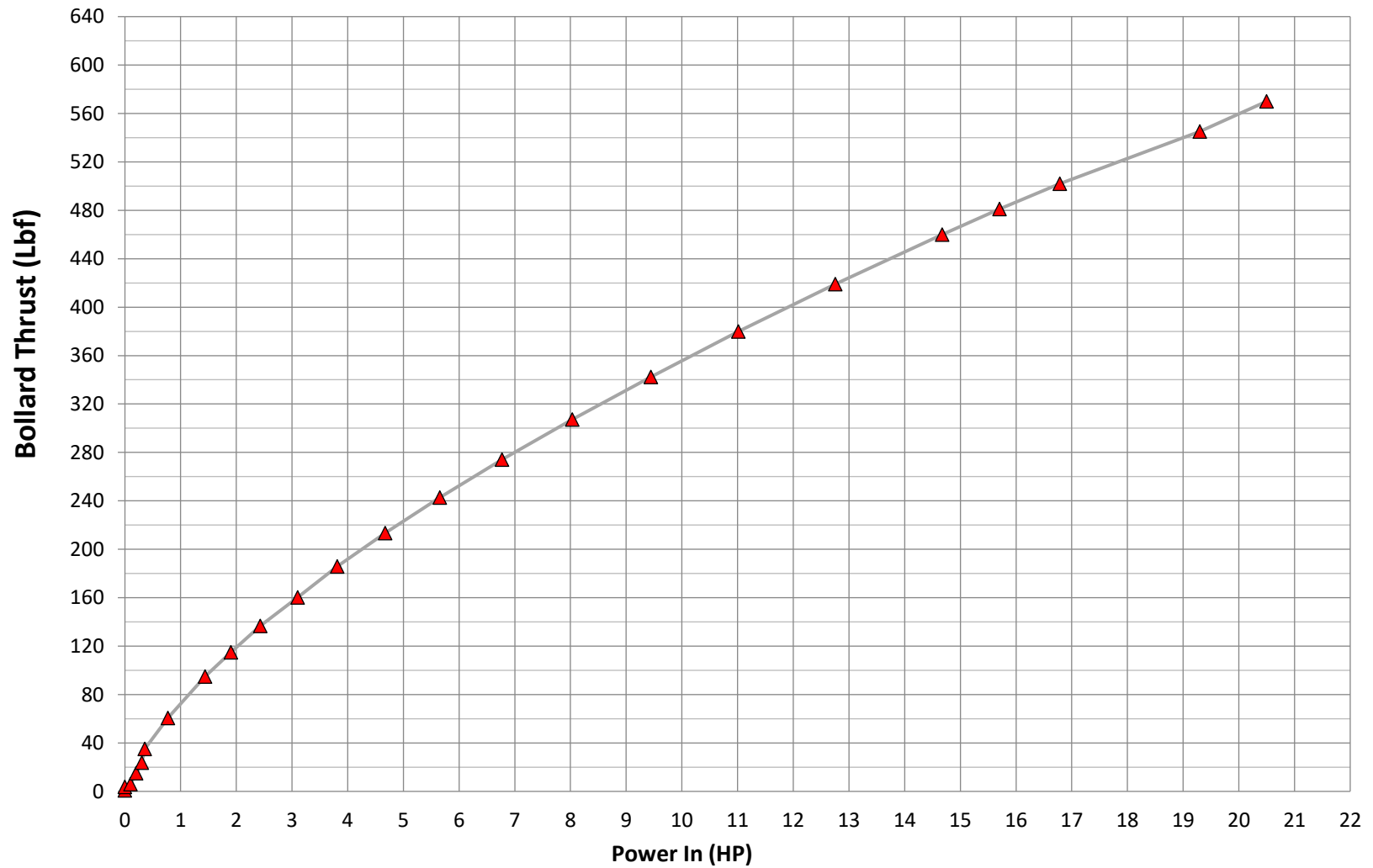


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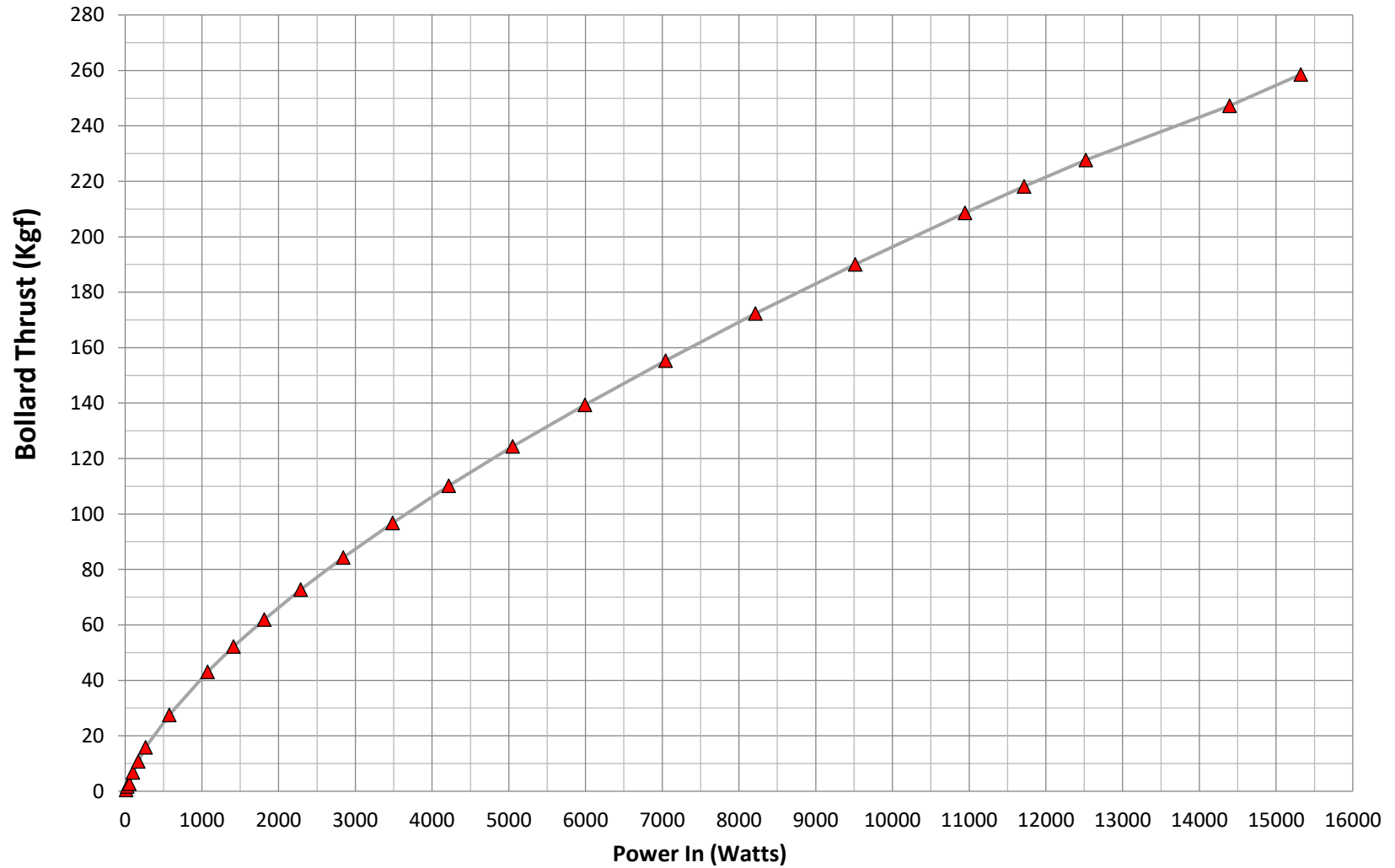
1002H-14600R Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





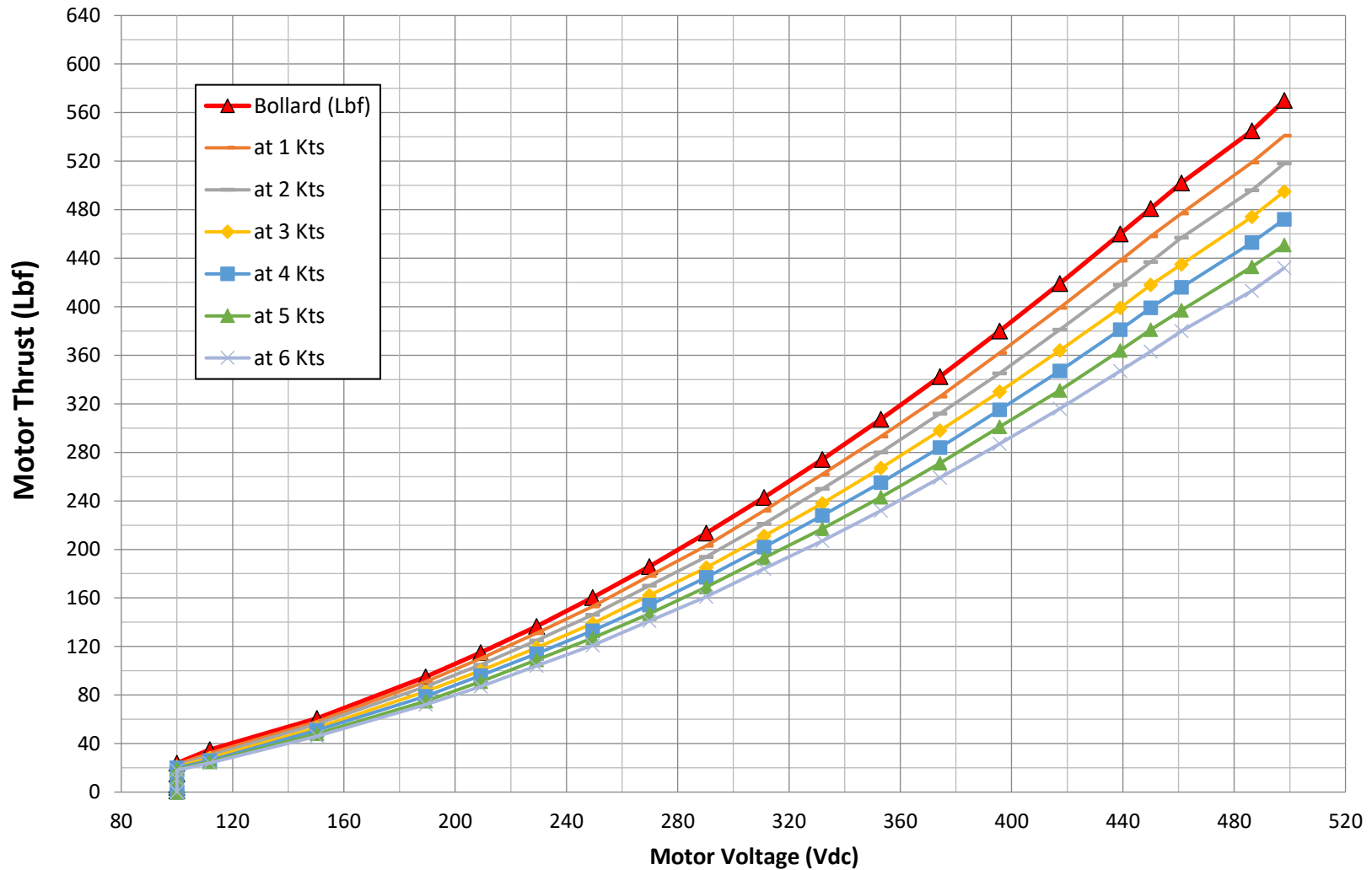
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1002H-14600R Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





1002H-14600R Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



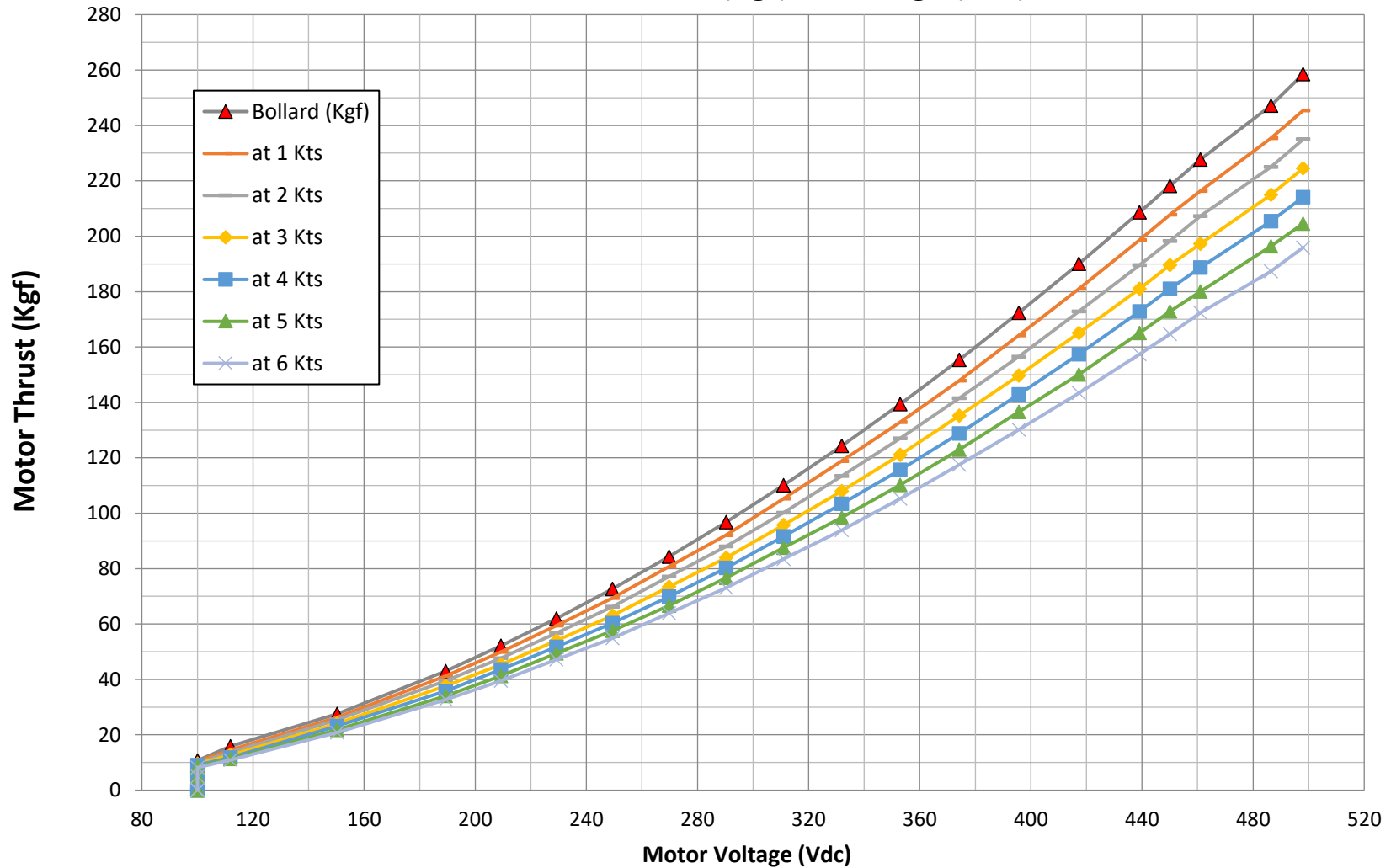
Note:

- 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 600VDC. Graph shows Thrust with Voltages below 600VDC.



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1002H-14600R 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 600VDC. Graph shows Thrust with Voltages below 600VDC.