



**1002H Hexscreen Electric Thruster with 14600R Motor Performance Table**

Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Torque		Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				(N-M)	(In-Lbs)	0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
600	600	111.8	2.0	4.2	36.7	34	15.5	31	14.0	0.35	261	267	0.4	97.8%
800	600	150.3	3.2	6.7	59.1	61	27.5	55	25.0	0.75	560	575	0.8	97.4%
1000	600	189.4	4.8	9.9	87.9	95	43.0	86	39.0	1.39	1040	1073	1.4	96.9%
1200	600	229.2	6.8	13.9	123.0	137	62.0	124	56.1	2.34	1747	1812	2.4	96.4%
1400	600	269.8	9.0	18.6	164.5	186	84.3	168	76.4	3.65	2726	2843	3.8	95.9%
1500	600	290.3	10.3	21.2	187.7	213	96.8	193	87.7	4.47	3332	3485	4.7	95.6%
1600	600	311.0	11.7	24.0	212.4	243	110.1	220	99.8	5.39	4023	4219	5.7	95.4%
1700	600	331.9	13.1	27.0	238.8	274	124.3	248	112.7	6.44	4805	5052	6.8	95.1%
1800	600	353.0	14.6	30.1	266.7	307	139.4	279	126.3	7.62	5683	5991	8.0	94.9%
1900	600	374.3	16.3	33.5	296.3	342	155.3	310	140.8	8.93	6663	7043	9.4	94.6%
2000	600	395.7	18.0	37.0	327.4	379	172.1	344	156.0	10.39	7751	8215	11.0	94.3%
2100	600	417.3	19.8	40.7	360.2	418	189.7	379	171.9	12.00	8953	9514	12.8	94.1%
2200	600	439.1	21.7	44.6	394.5	459	208.2	416	188.7	13.77	10273	10947	14.7	93.8%
2250	600	450.0	22.6	46.6	412.3	480	217.8	435	197.4	14.72	10980	11716	15.7	93.7%
2300	600	461.1	23.6	48.6	430.4	502	227.7	455	206.3	15.71	11718	12521	16.8	93.6%

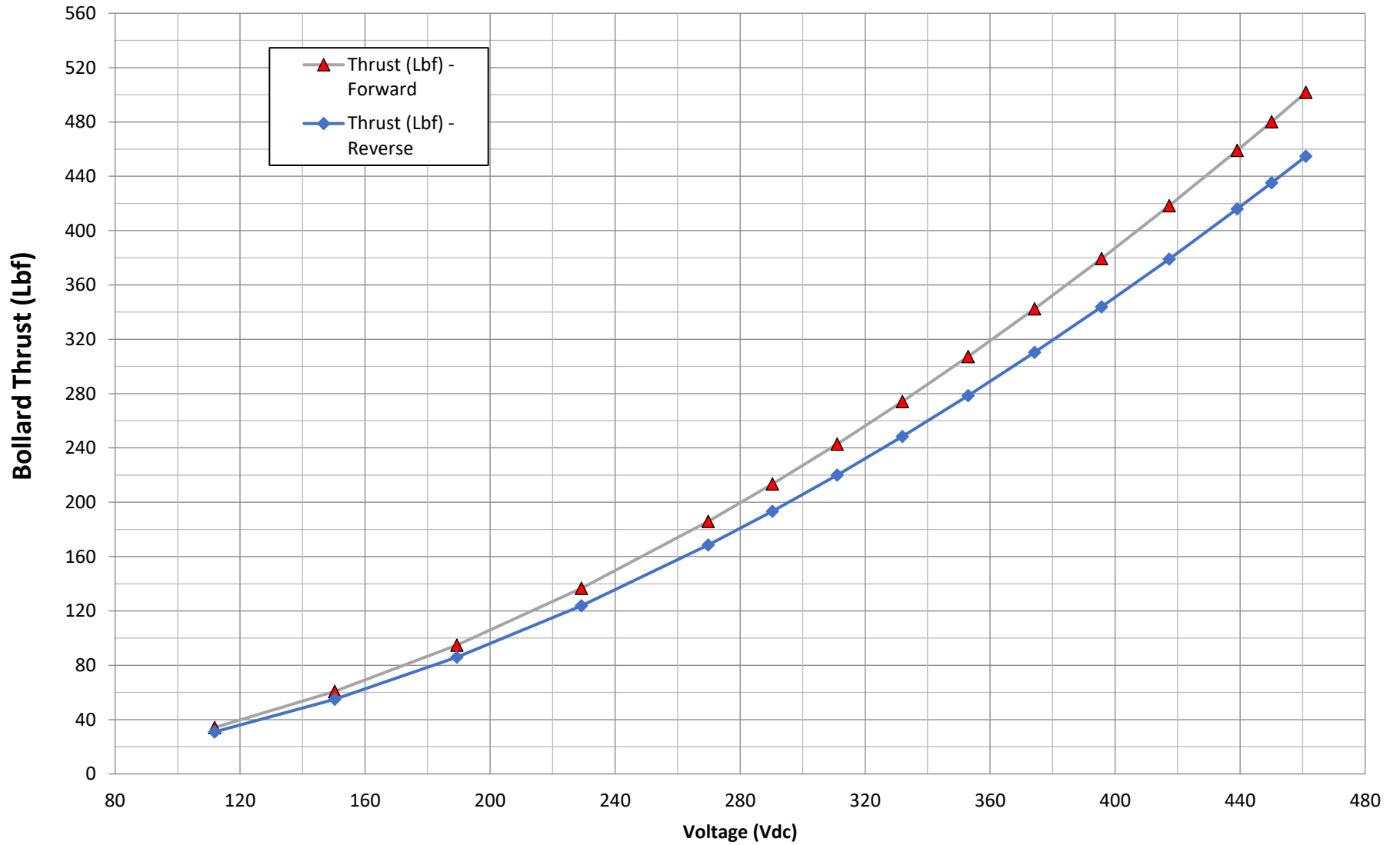
**Table Information:**

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



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

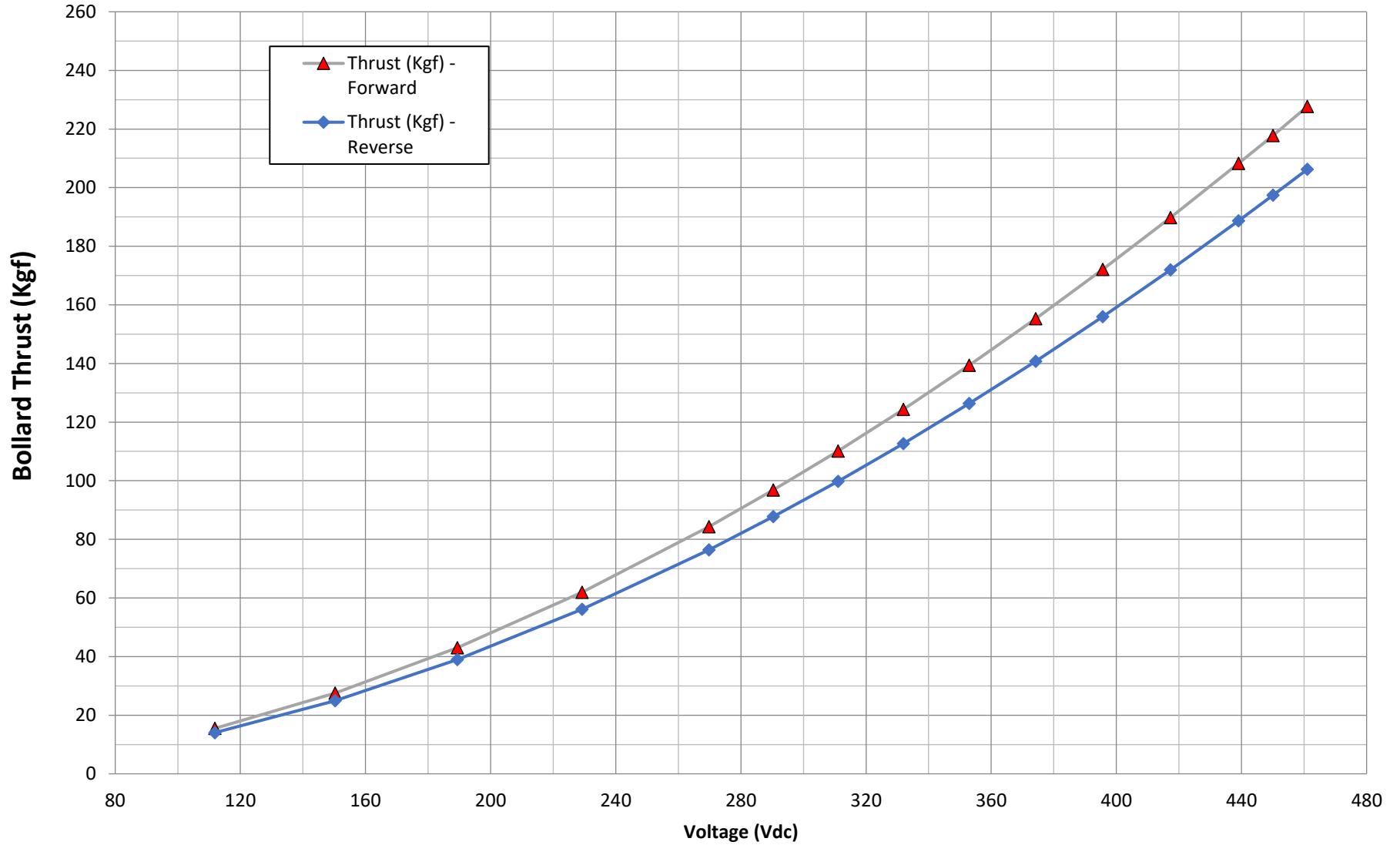


Note:  
System Voltage equals 600VDC. Graph shows Thrust with Voltages below 600VDC.



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

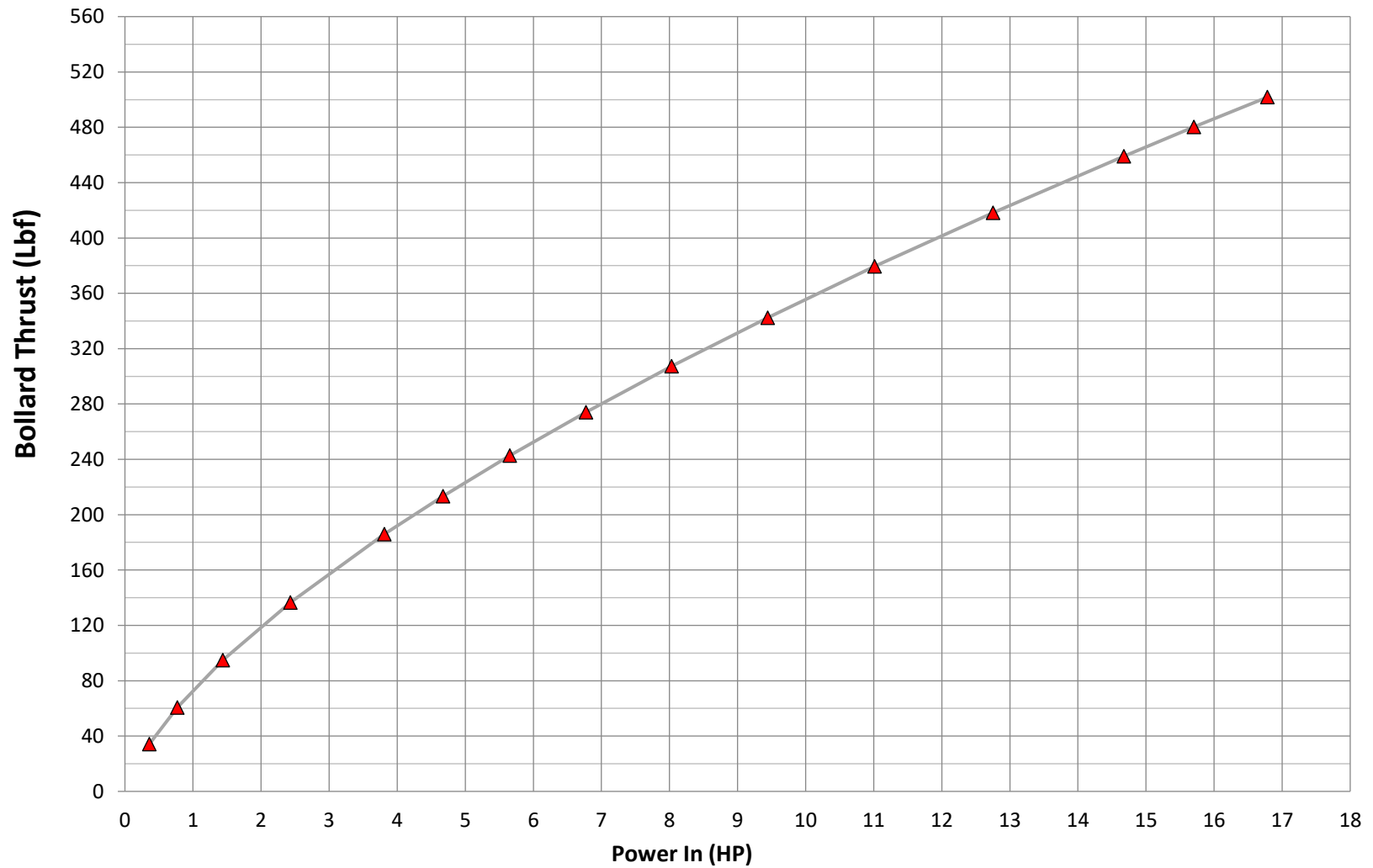


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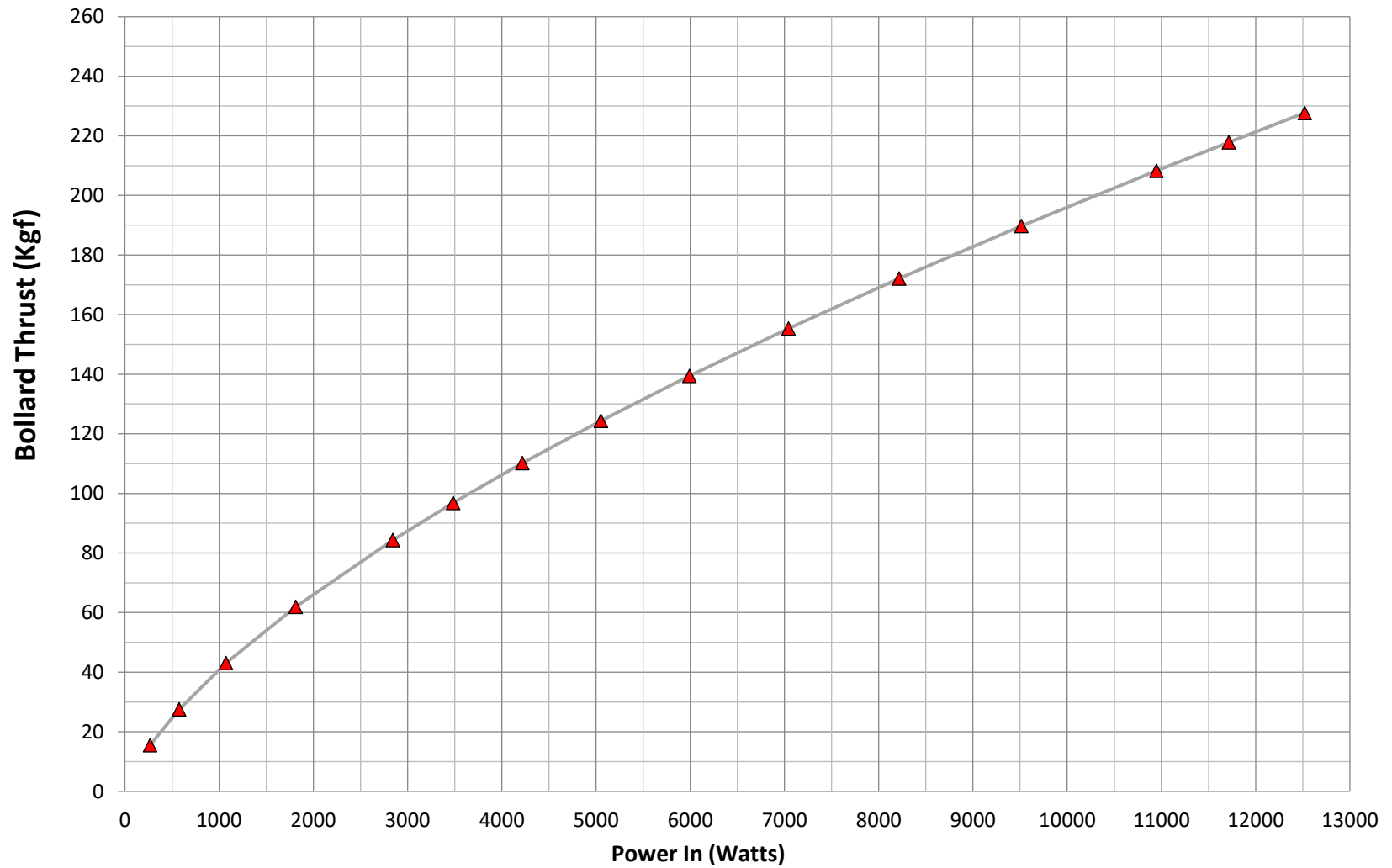
### 1002H-14600R Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





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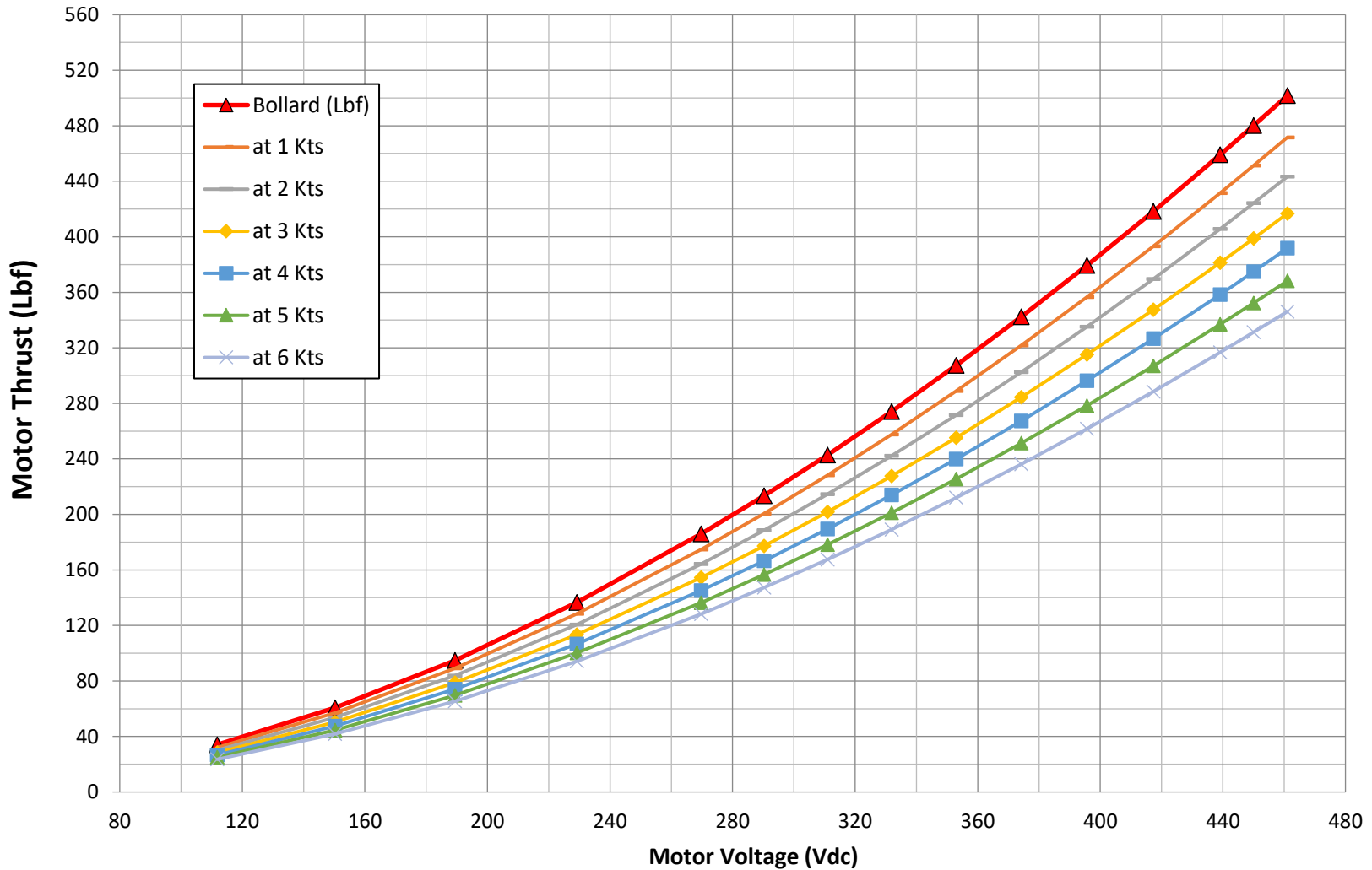
### 1002H-14600R Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





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

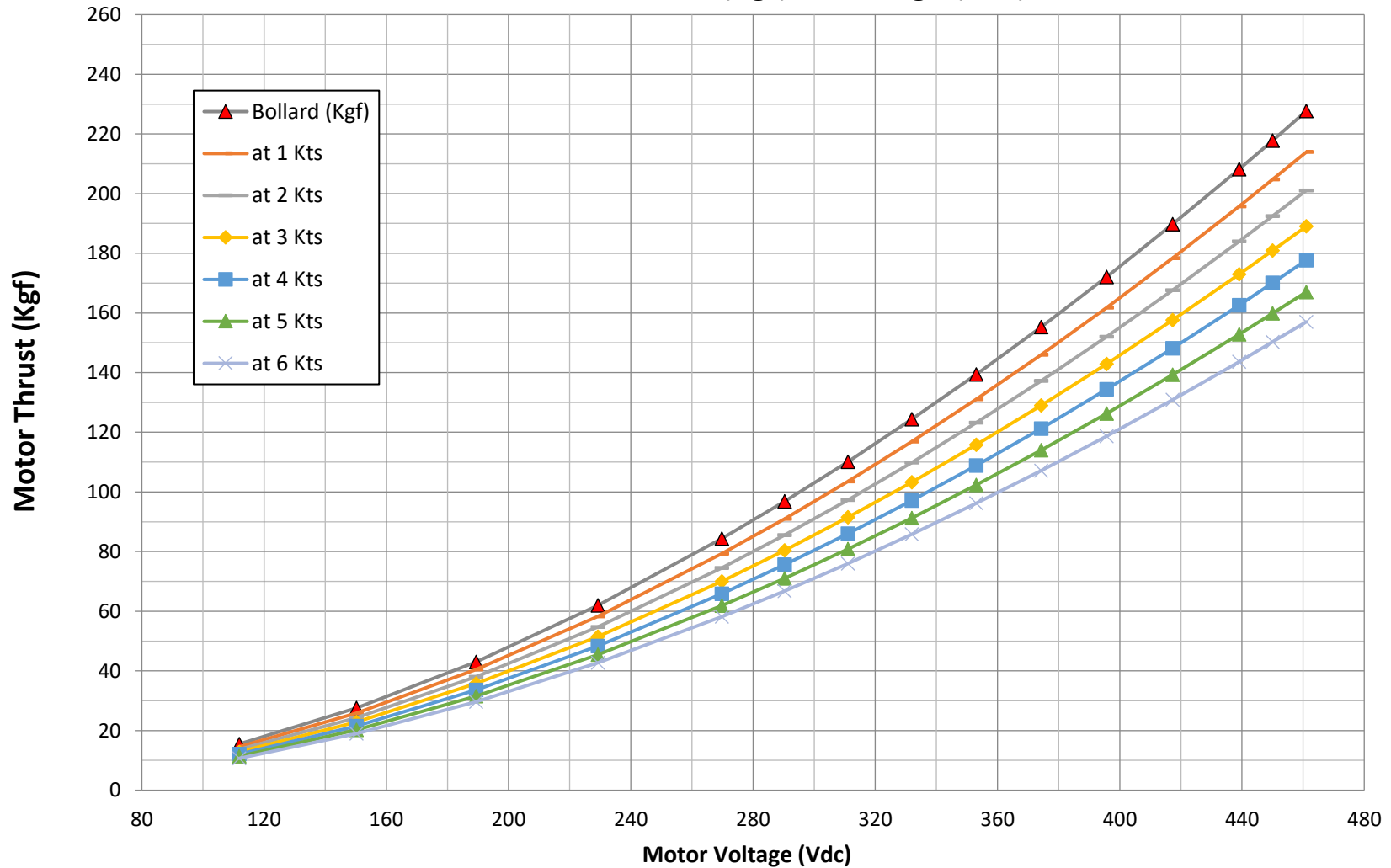


Note:

- 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.



## 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.