



H106 Hexscreen Electric Thruster with 12150RH10 Motor Performance Table

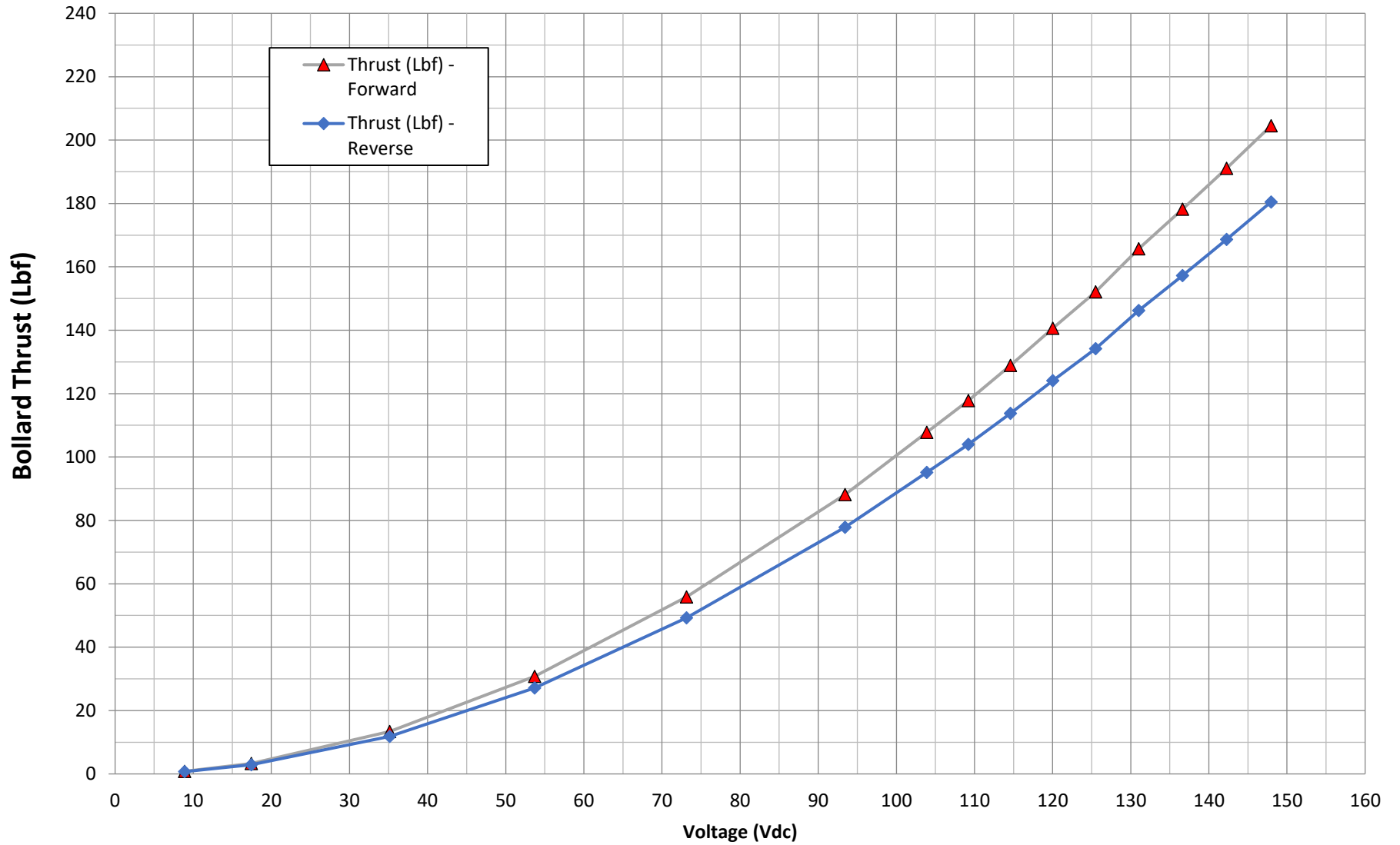
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	150	8.9	1.1	1	0.4	1	0.3	0.00	0	1	0.0	43.5%
200	150	17.4	1.7	3	1.5	3	1.3	0.00	4	5	0.0	74.5%
400	150	35.1	3.8	13	6.1	12	5.4	0.04	29	35	0.0	82.2%
600	150	53.7	7.3	31	14.0	27	12.3	0.13	99	123	0.2	81.0%
800	150	73.1	12.3	56	25.3	49	22.4	0.32	240	306	0.4	78.6%
1000	150	93.4	18.6	88	40.0	78	35.3	0.64	474	625	0.8	75.9%
1100	150	103.9	22.4	108	48.9	95	43.1	0.86	638	854	1.1	74.7%
1150	150	109.2	24.3	118	53.4	104	47.2	0.98	729	986	1.3	74.0%
1200	150	114.6	26.4	129	58.5	114	51.6	1.12	832	1135	1.5	73.4%
1250	150	120.0	28.6	141	63.8	124	56.3	1.27	946	1299	1.7	72.8%
1300	150	125.5	30.8	152	69.0	134	60.9	1.43	1064	1476	2.0	72.1%
1350	150	131.0	33.2	166	75.1	146	66.3	1.61	1203	1680	2.3	71.6%
1400	150	136.6	35.6	178	80.8	157	71.3	1.80	1342	1891	2.5	71.0%
1450	150	142.3	38.1	191	86.7	169	76.5	2.00	1491	2120	2.8	70.3%
1500	150	148.0	40.7	205	92.8	180	81.9	2.21	1651	2369	3.2	69.7%

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



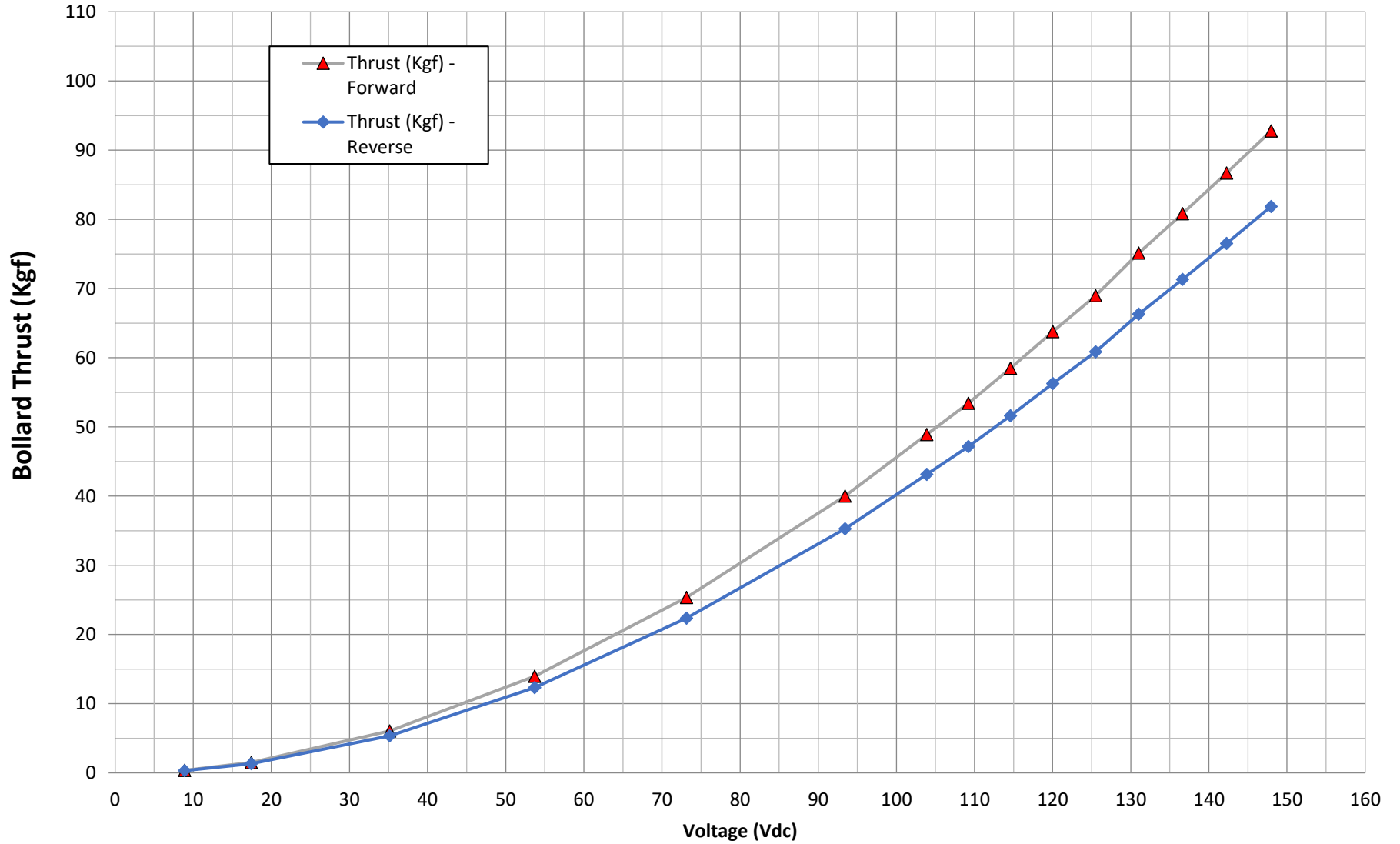
H106-12150RH10 Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



Note:
System Voltage equals 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.



H106-12150RH10 Hexscreen Electric Thruster Thrust (Kgf) vs Voltage (Vdc)

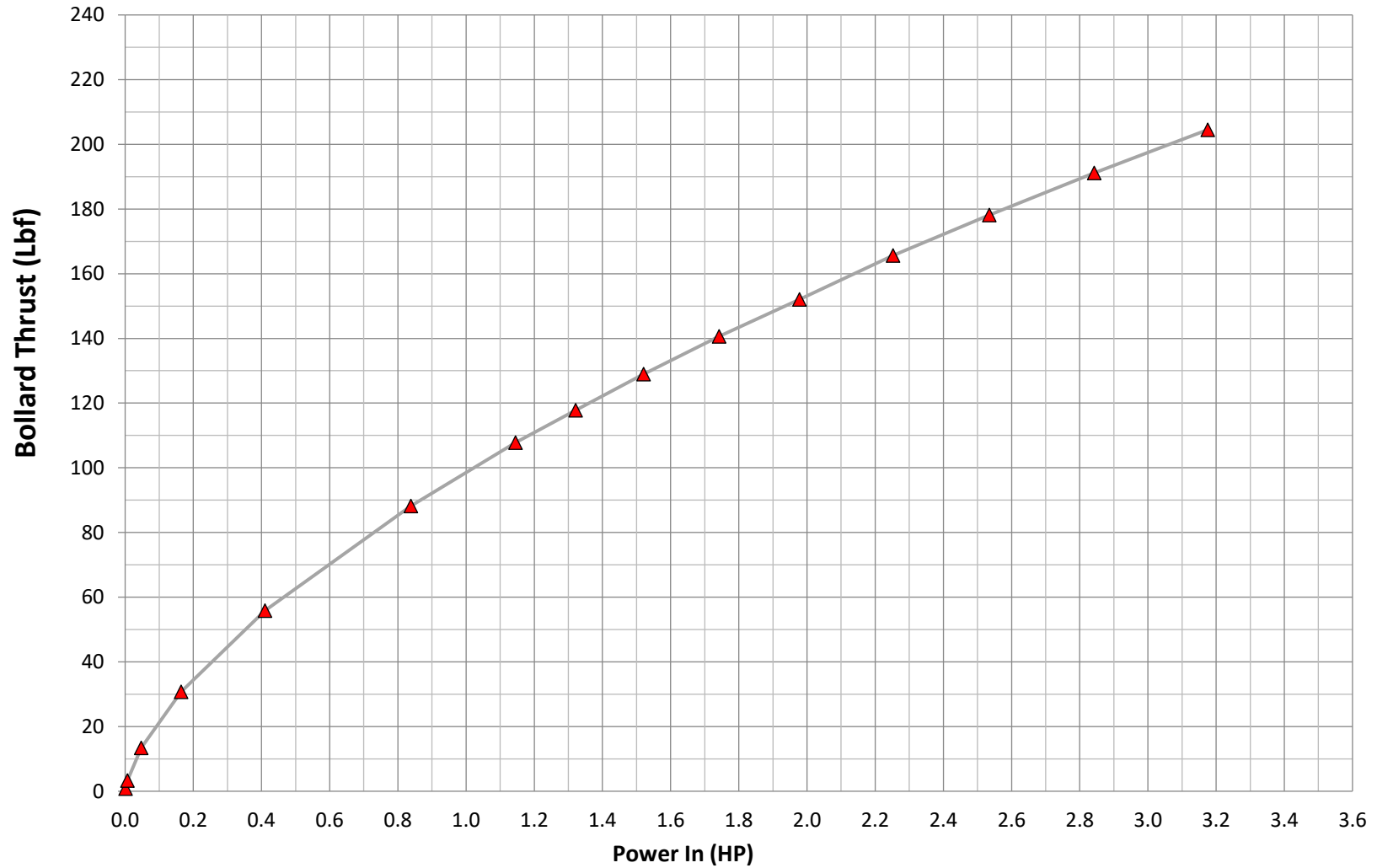


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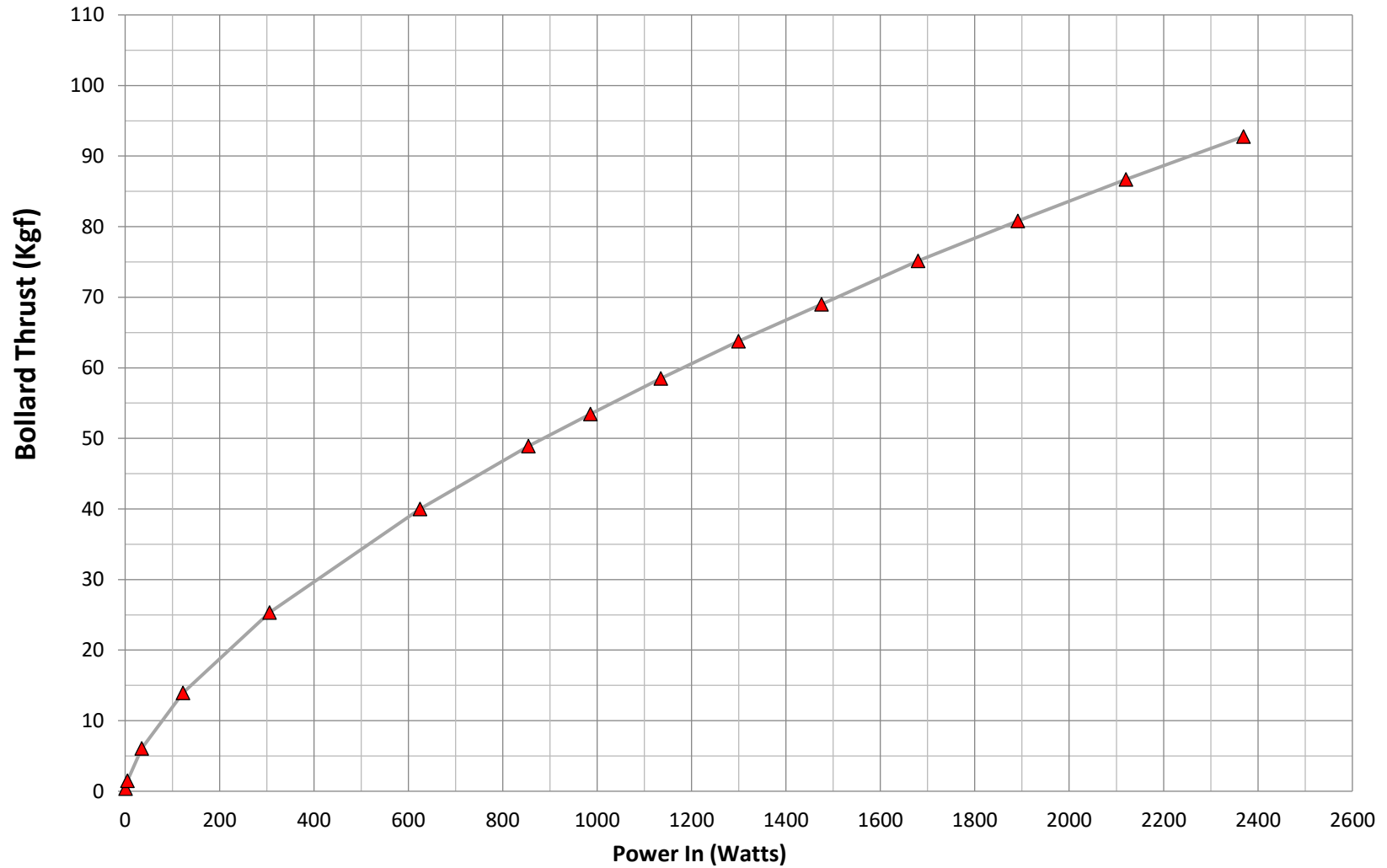
H106-12150RH10 Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





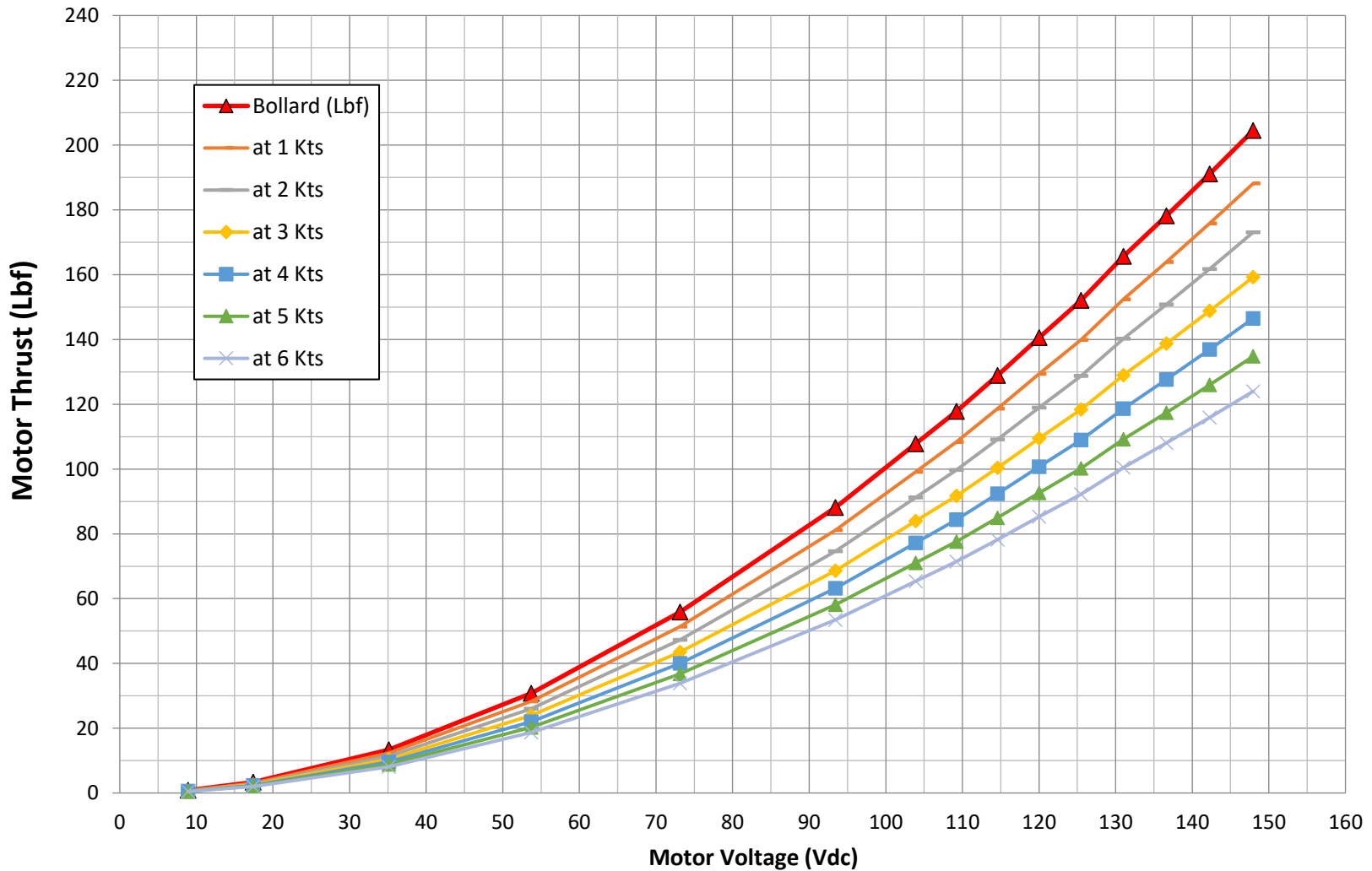
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H106-12150RH10 Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





H106-12150RH10 Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)

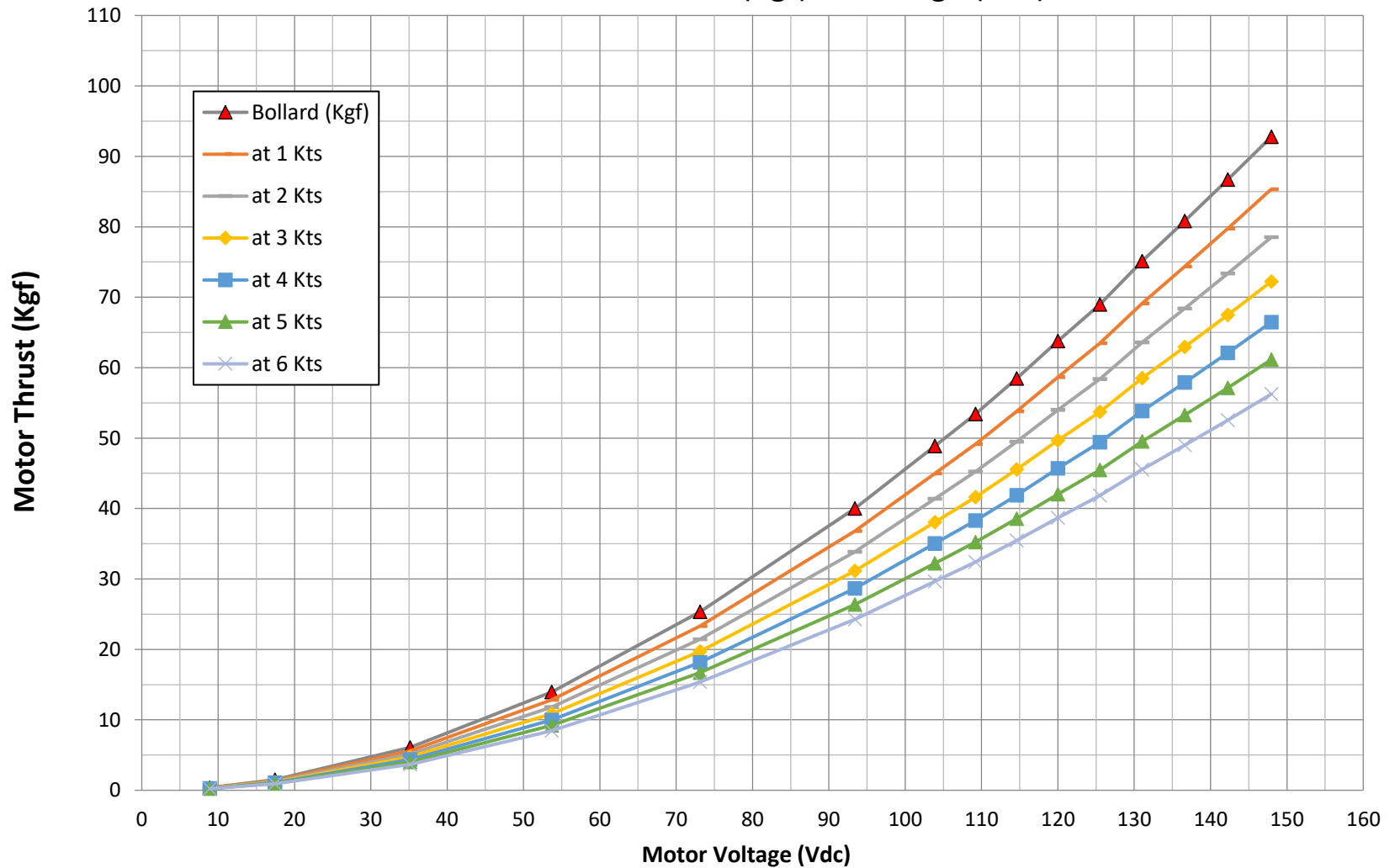


Note:

- 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 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.



H106-12150RH10 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 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.