



**H106 Hexscreen Electric Thruster with 12600RH10 Motor Performance Table**

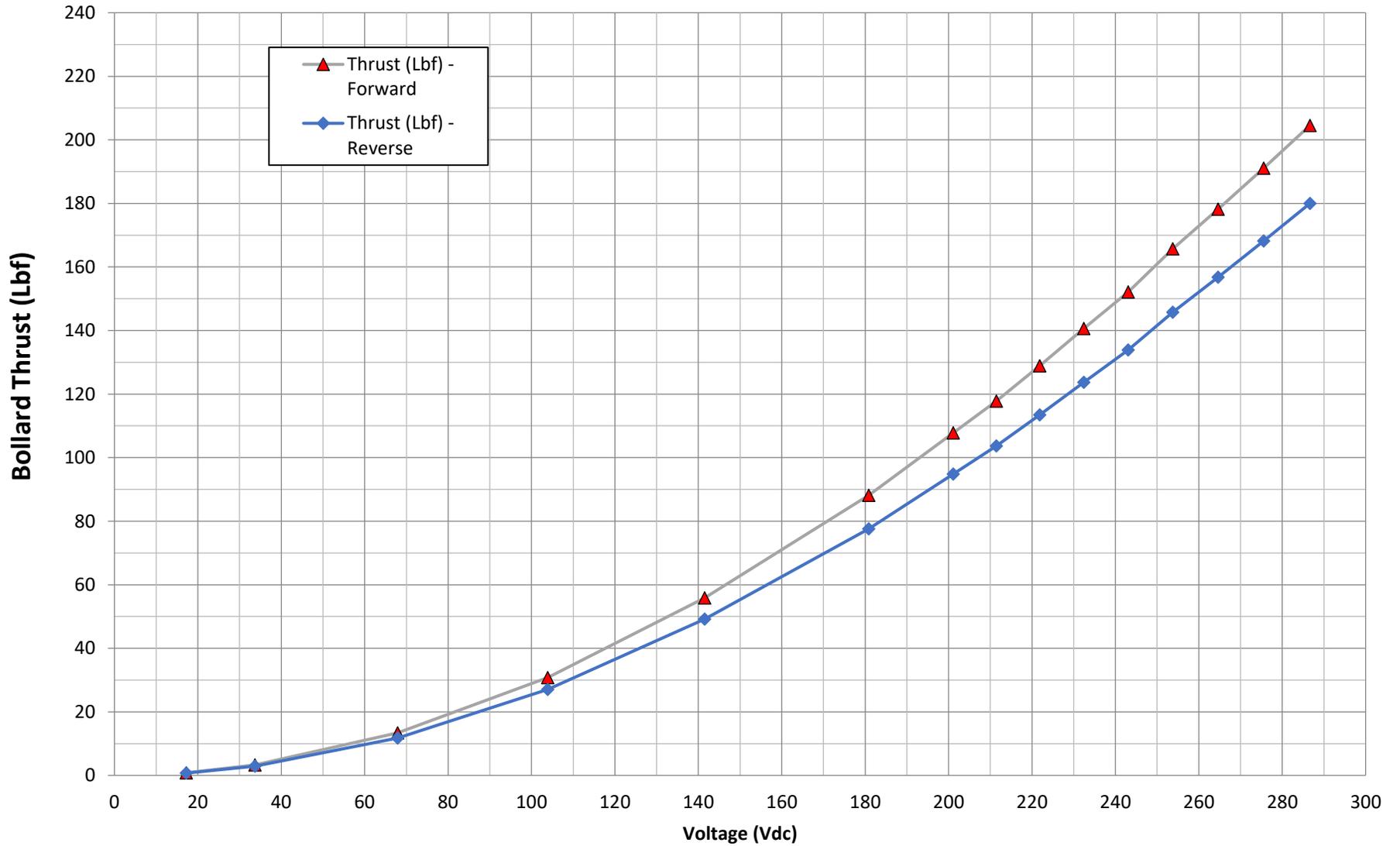
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Torque		Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				(N-M)	(In-Lbs)	0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	600	17.2	0.6	0.0	0.4	1	0.4	1	0.3	0.00	0	1	0.0	43.1%
200	600	33.7	0.9	0.2	1.5	3	1.5	3	1.3	0.00	4	5	0.0	74.1%
400	600	67.9	2.0	0.7	6.1	13	6.1	12	5.3	0.04	29	35	0.0	81.9%
600	600	103.9	3.8	1.6	14.0	31	14.0	27	12.3	0.13	99	123	0.2	80.7%
800	600	141.5	6.4	2.9	25.4	56	25.3	49	22.3	0.32	240	307	0.4	78.3%
1000	600	180.8	9.7	4.5	40.1	88	40.0	78	35.2	0.64	474	628	0.8	75.6%
1100	600	201.1	11.6	5.5	49.0	108	48.9	95	43.0	0.86	638	858	1.2	74.3%
1150	600	211.5	12.6	6.1	53.6	118	53.4	104	47.0	0.98	729	990	1.3	73.6%
1200	600	221.9	13.7	6.6	58.6	129	58.5	113	51.5	1.12	832	1140	1.5	73.0%
1250	600	232.4	14.8	7.2	63.9	141	63.8	124	56.1	1.27	946	1306	1.8	72.4%
1300	600	243.0	16.0	7.8	69.1	152	69.0	134	60.7	1.43	1064	1483	2.0	71.7%
1350	600	253.8	17.2	8.5	75.3	166	75.1	146	66.1	1.61	1203	1689	2.3	71.2%
1400	600	264.6	18.4	9.2	81.0	178	80.8	157	71.1	1.80	1342	1902	2.5	70.6%
1450	600	275.6	19.7	9.8	86.9	191	86.7	168	76.3	2.00	1491	2132	2.9	69.9%
1500	600	286.6	21.1	10.5	93.0	205	92.8	180	81.6	2.21	1651	2383	3.2	69.3%

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



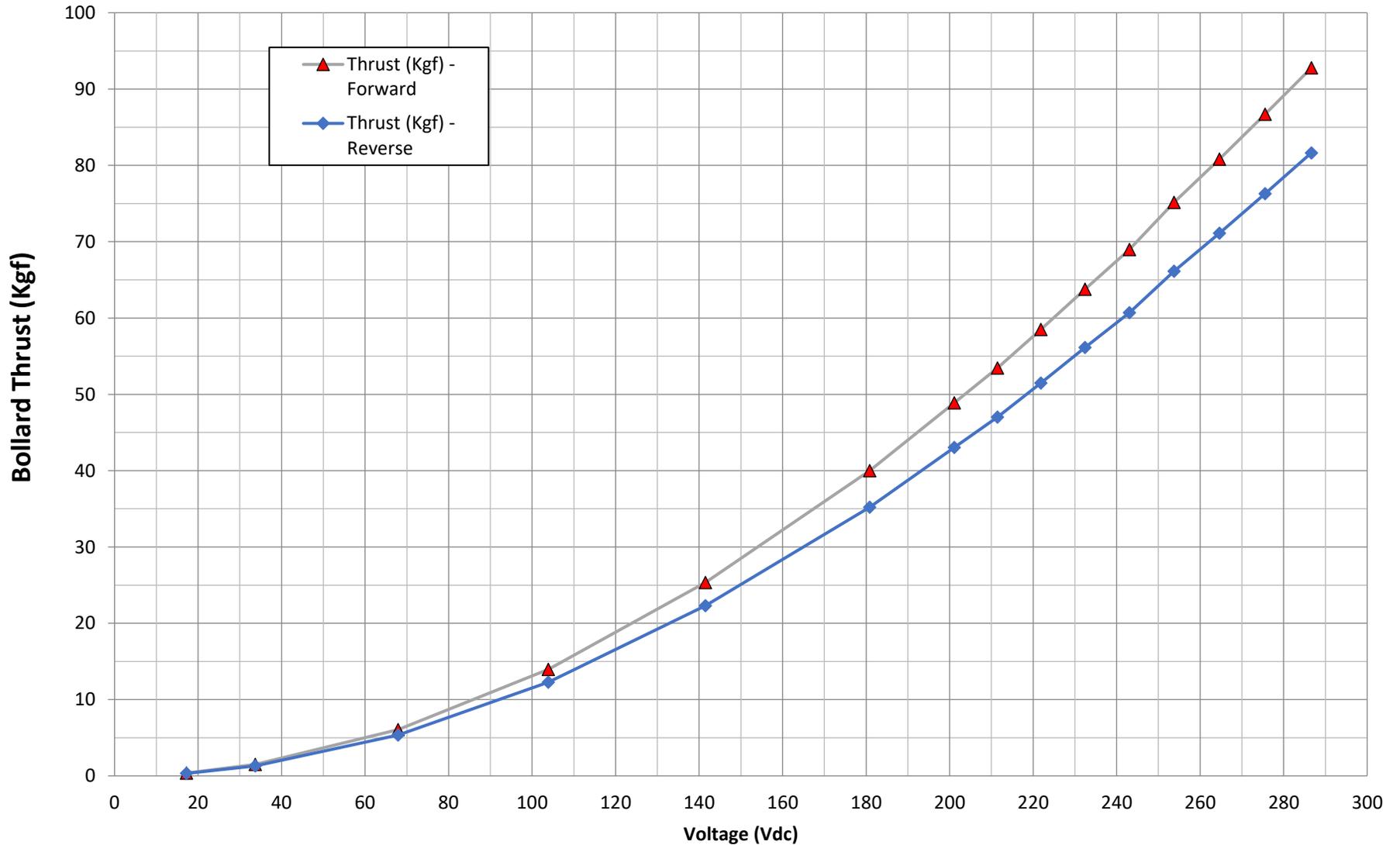
### H106-12600RH10 Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



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



### H106-12600RH10 Hexscreen Electric Thruster Thrust (Kgf) vs Voltage (Vdc)

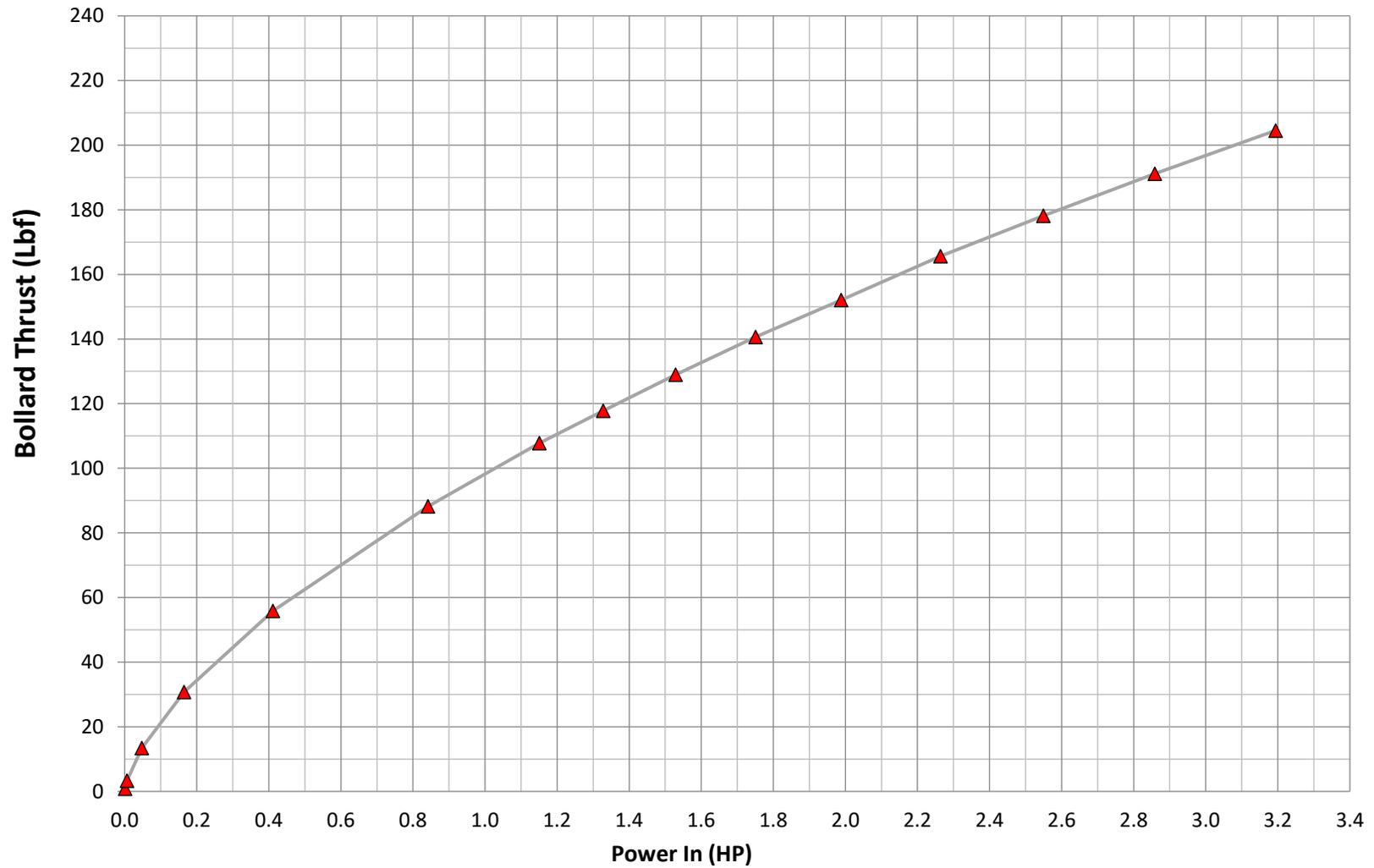


Note:  
System Voltage equals 600 Vdc. Graph shows Thrust with Voltages below 600 Vdc.



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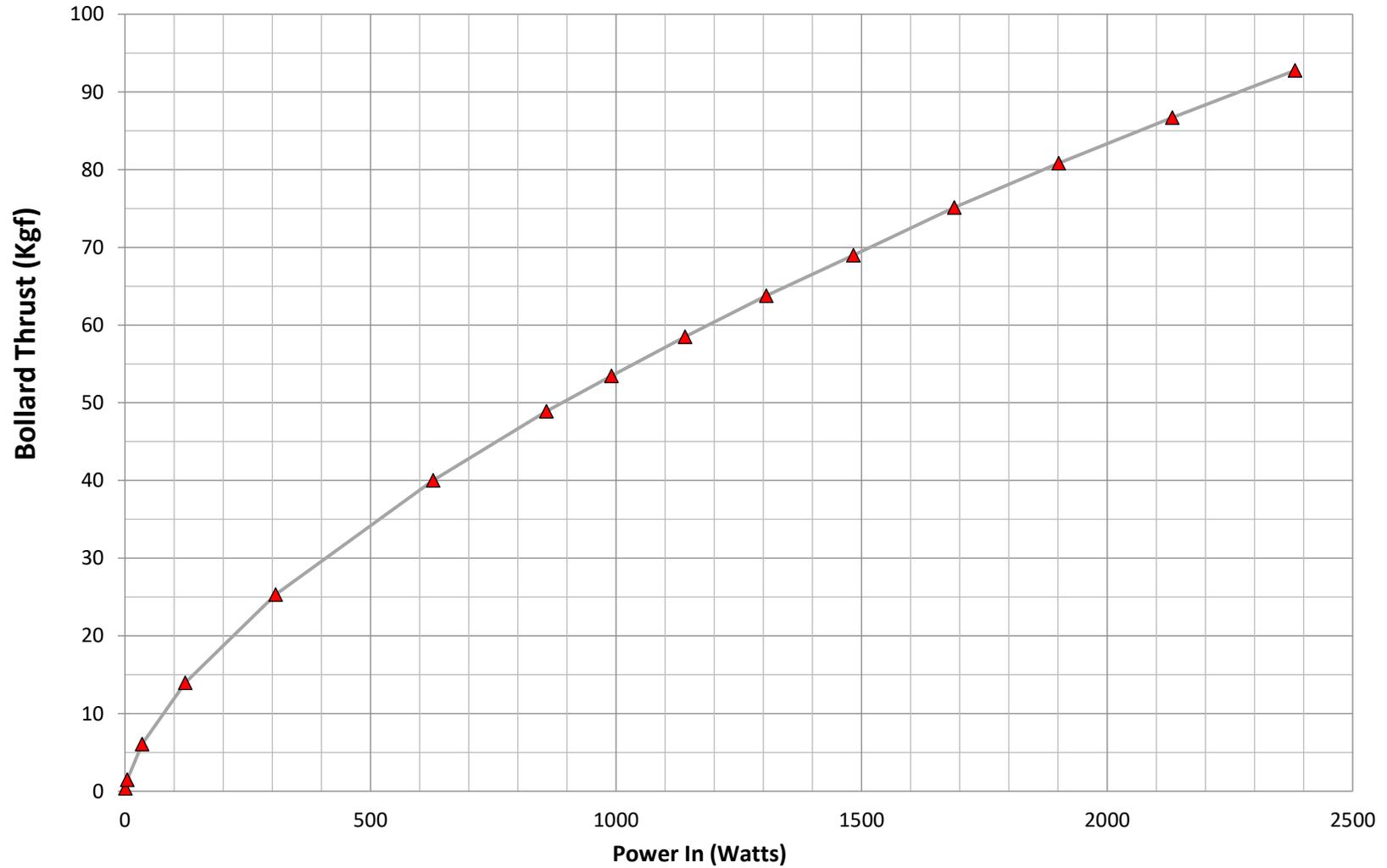
### H106-12600RH10 Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





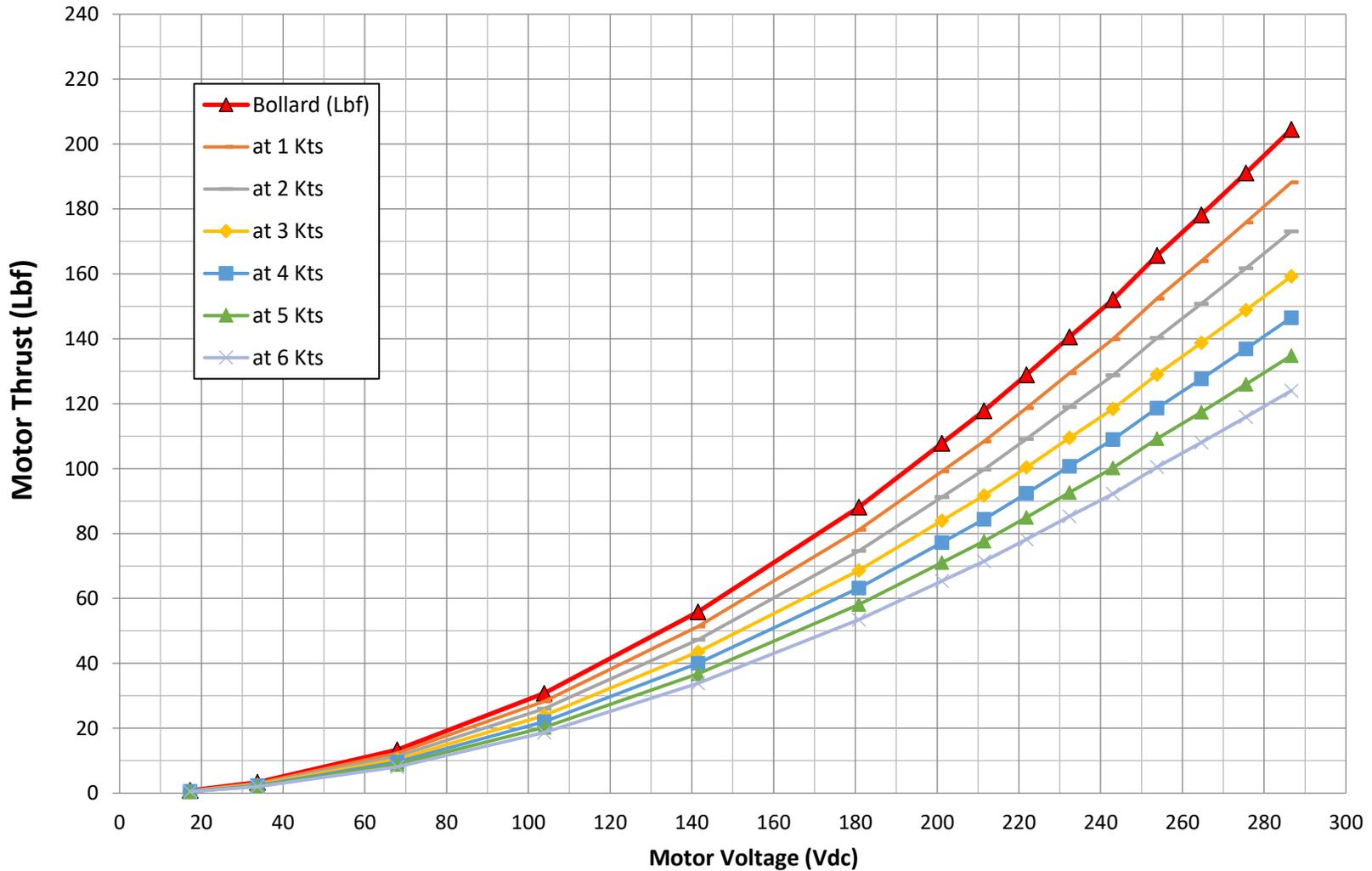
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### H106-12600RH10 Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





## H106-12600RH10 Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)

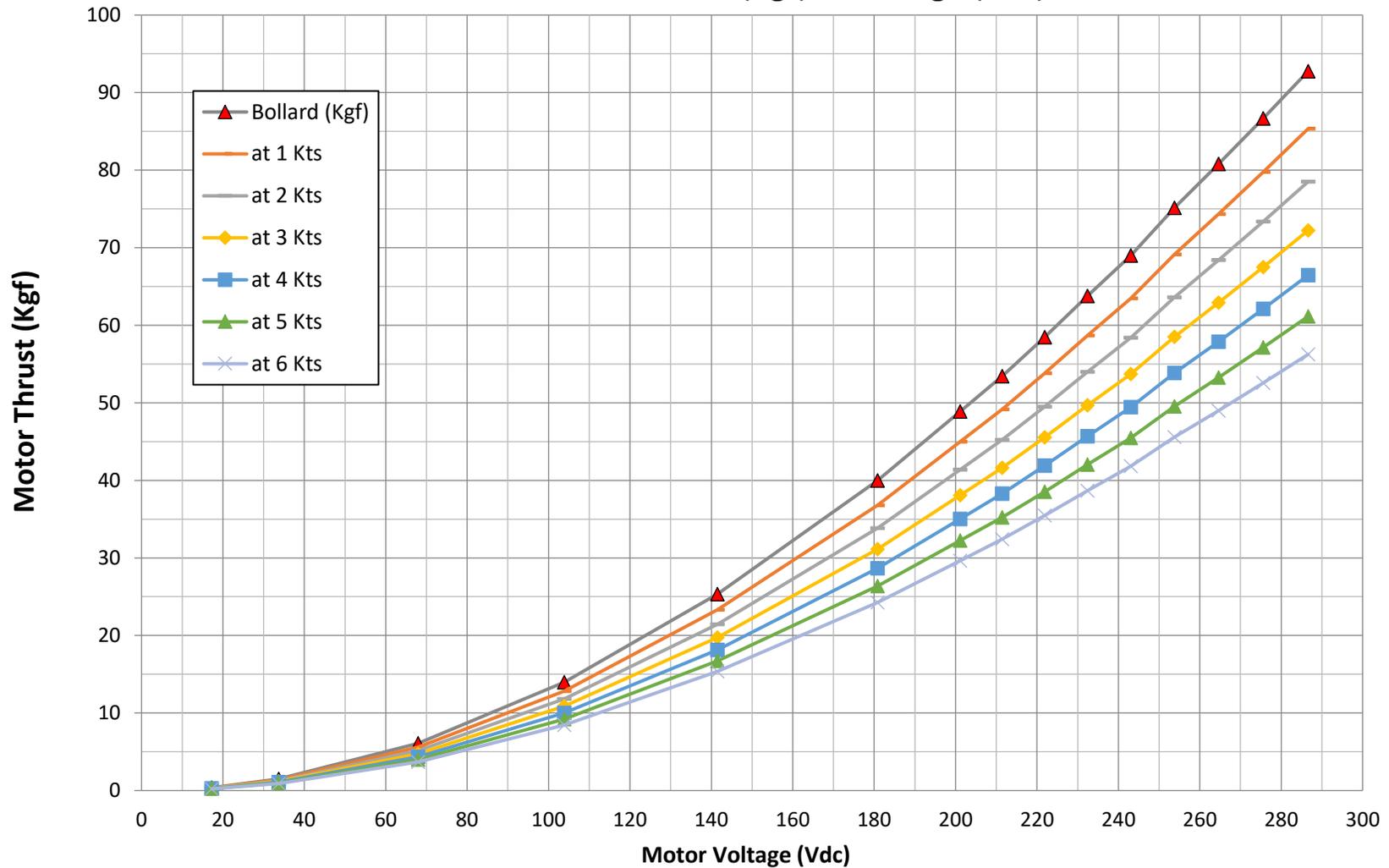


**Note:**

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



## H106-12600RH10 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 600 Vdc. Graph shows Thrust with Voltages below 600 Vdc.