INNERSPACE CORPORATION
1138 E. EDNA PLACE, COVINA, CA 91724
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NOMINAL VOLTAGE: 600 VDC

H106 Hexscreen Electric Thruster with 12600RH10 Motor Performance Table

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

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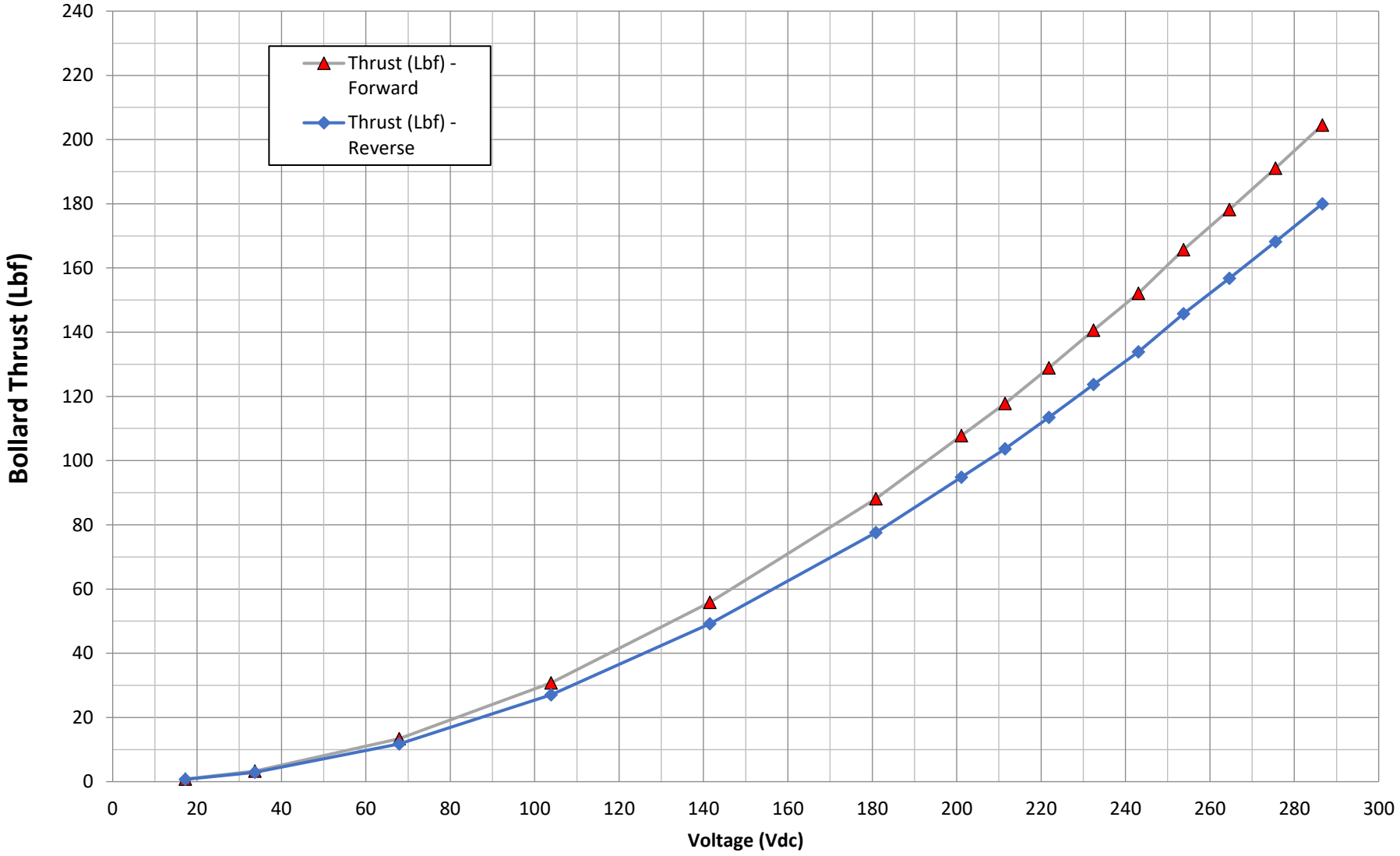
H106-12600RH10 Hexscreen Electric Thruster
Thrust (Lbf) vs Voltage (Vdc)



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

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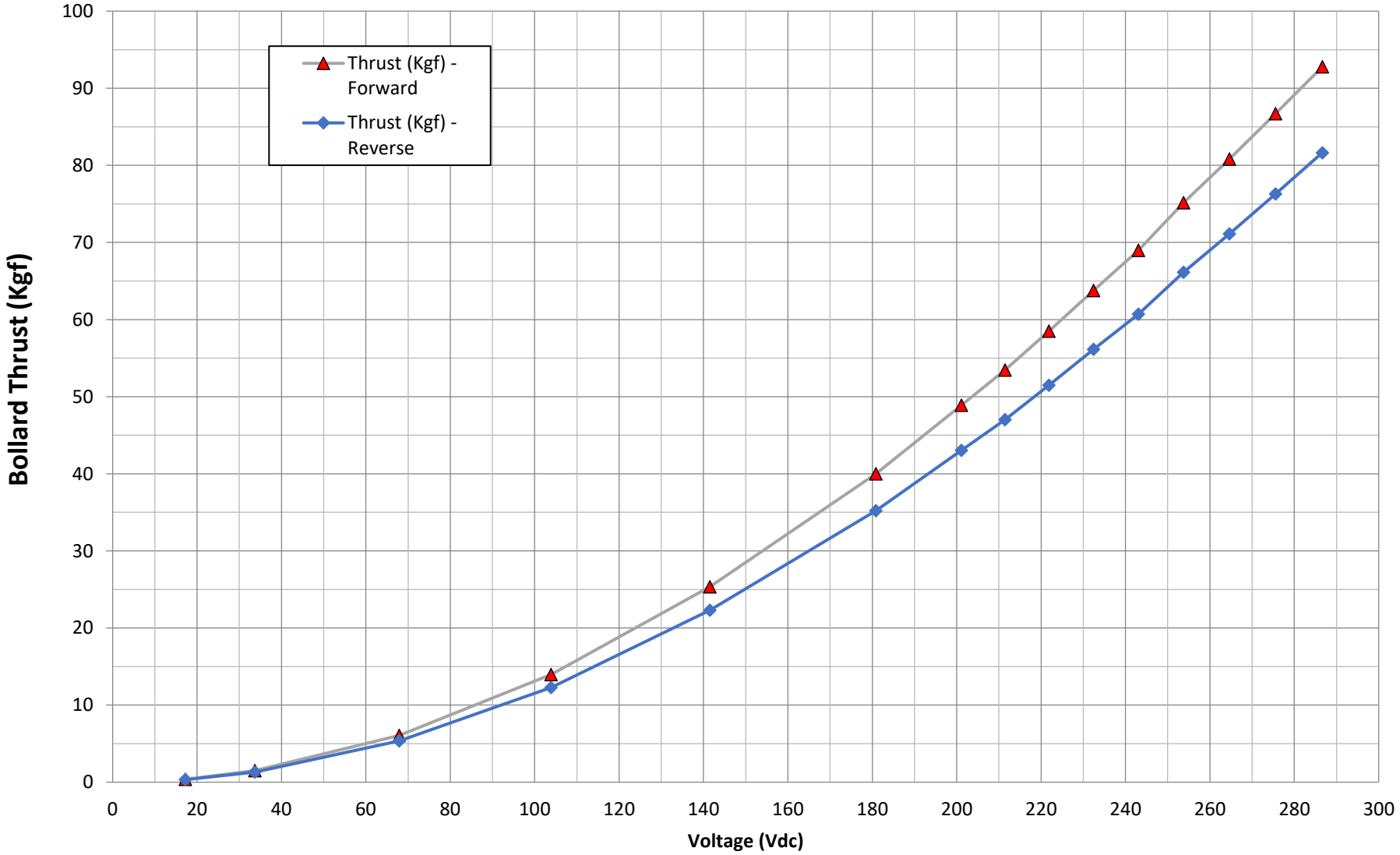

Note:
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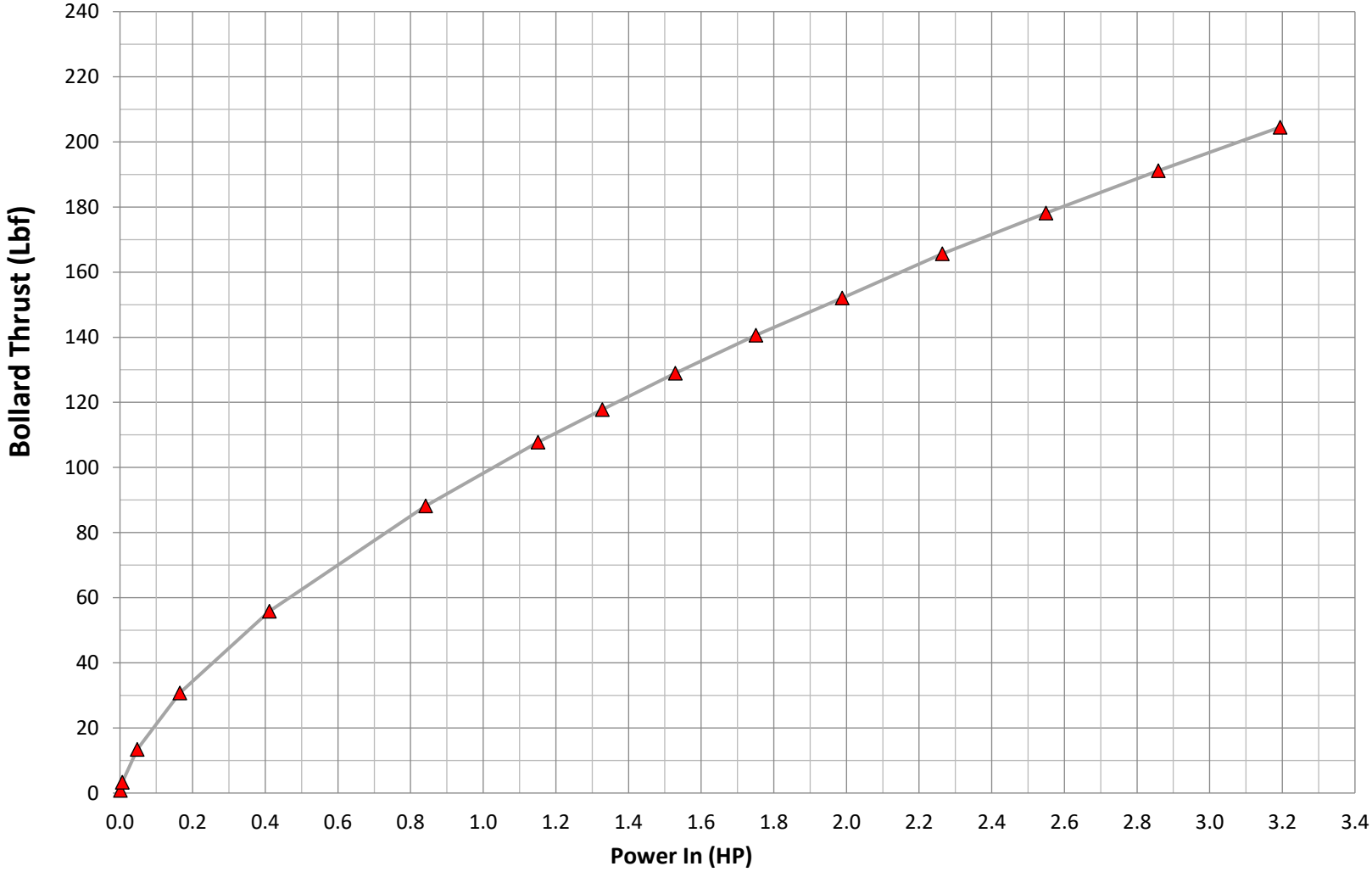
H106-12600RH10 Hexscreen Electric Thruster
Thrust (Lbf) vs Power In (HP)



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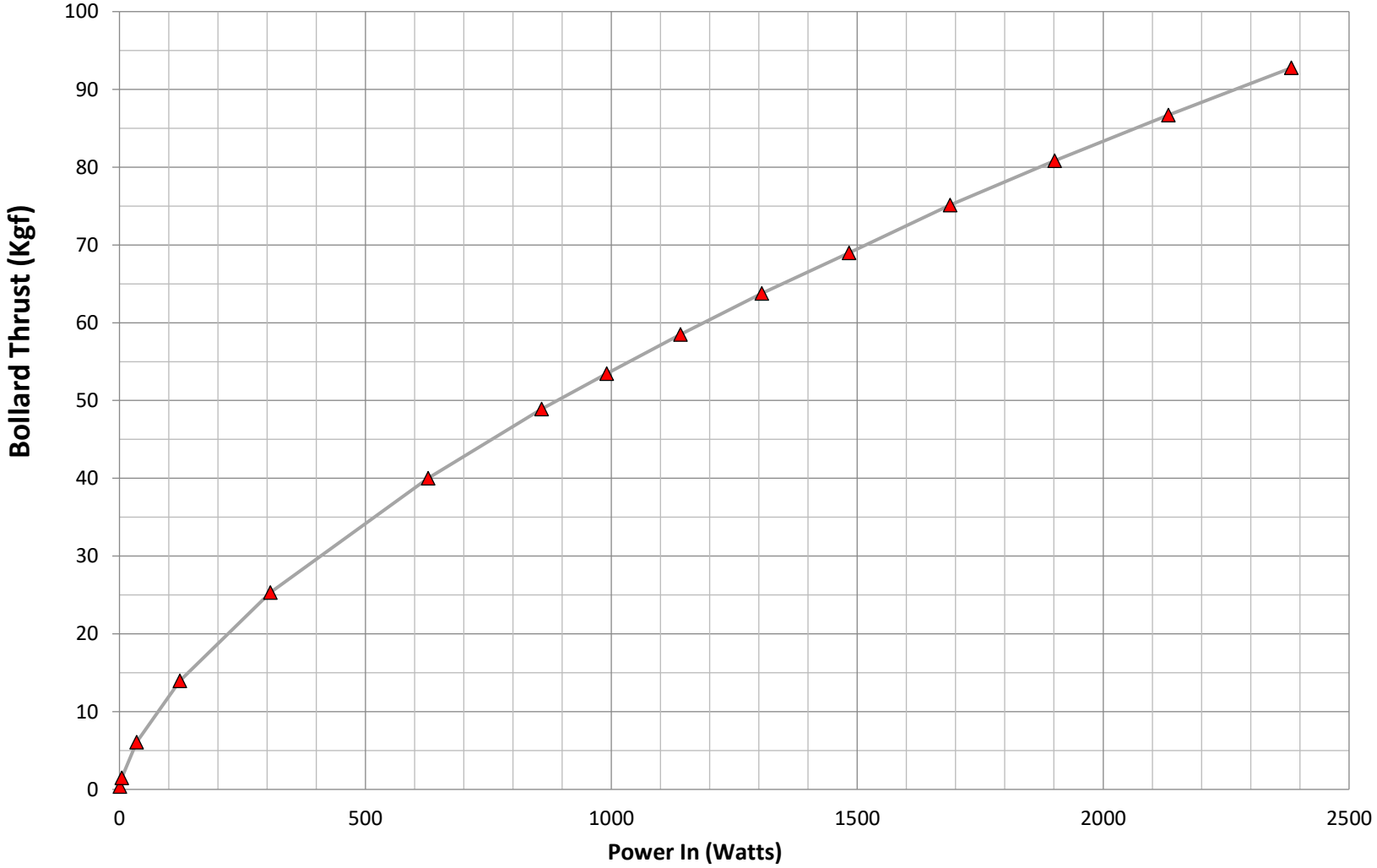
H106-12600RH10 Hexscreen Electric Thruster
Thrust (Kgf) vs Power In (Watts)



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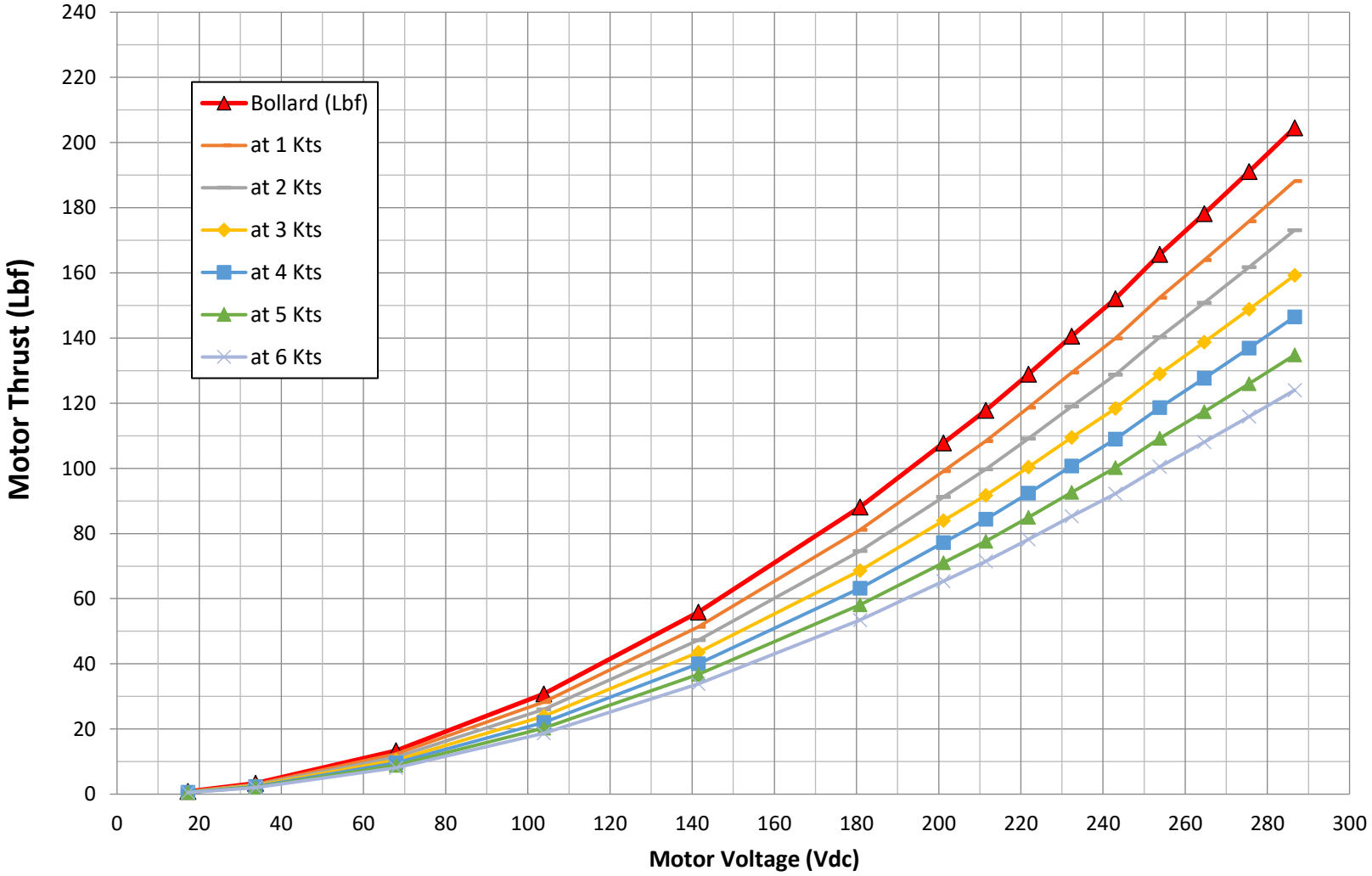
H106-12600RH10 Hexscreen Electric Thruster
Thrust (Lbf) vs Voltage (Vdc)



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.

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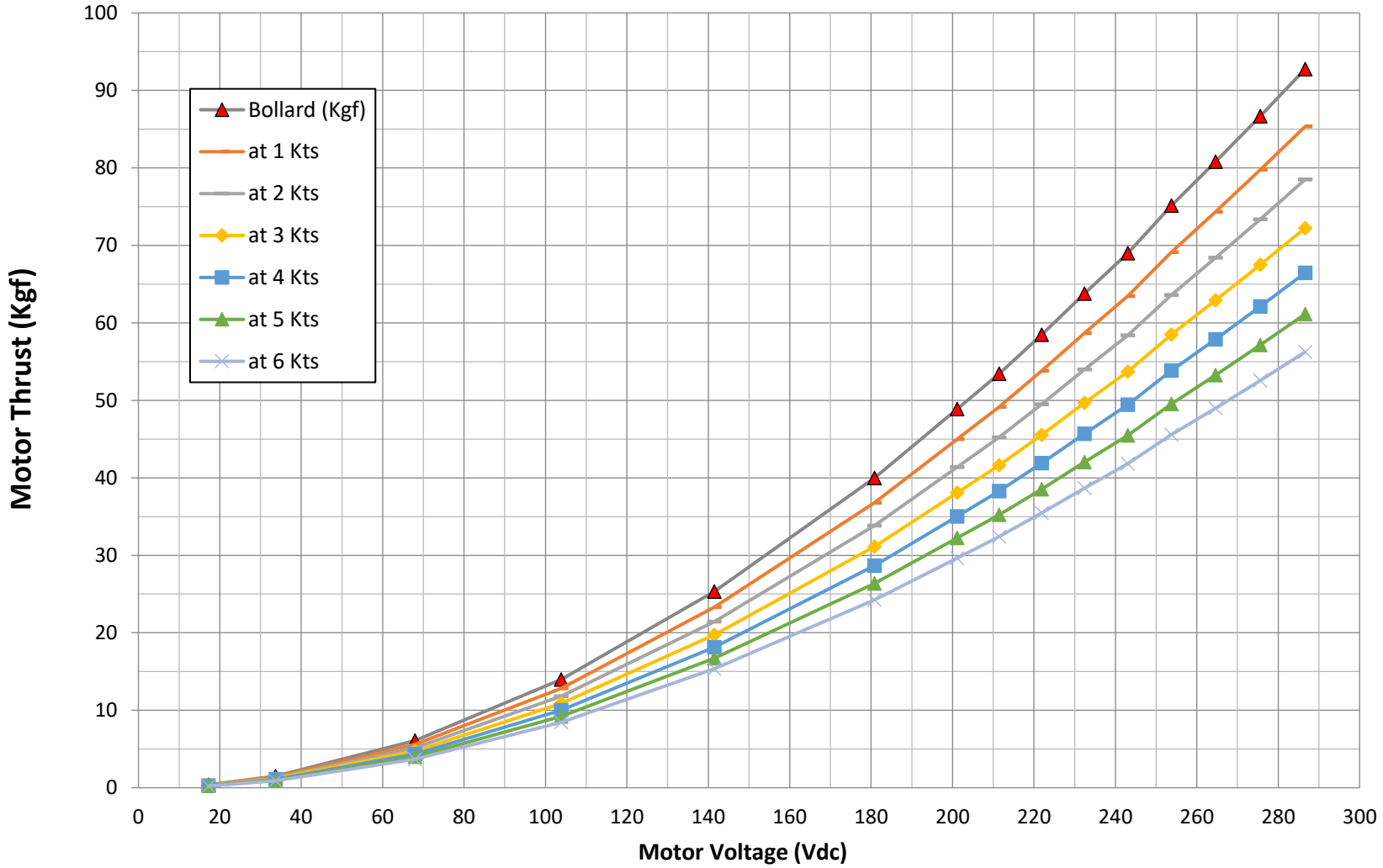

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2) Thrust at forward vehicle speed from 1 Kts to 6 Kts is based on a local water speed with a very conservative vehicle wake factor.
3) System Voltage equals 600 Vdc. Graph shows Thrust with Voltages below 600 Vdc.