INNERSPACE CORPORATION
1138 E. EDNA PLACE, COVINA, CA 91724
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NOMINAL VOLTAGE: 300 VDC

H106 Hexscreen Electric Thruster with 12300RH10 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	300	12.5	0.8	1	0.5	1	0.4	0.00	0	1	0.0	45.1%
200	300	24.6	1.2	3	1.4	3	1.2	0.00	4	5	0.0	75.6%
400	300	49.5	2.7	13	5.9	11	5.2	0.04	29	35	0.0	83.0%
600	300	75.5	5.2	31	14.1	27	12.4	0.13	99	121	0.2	81.9%
800	300	102.8	8.7	56	25.4	49	22.4	0.32	240	302	0.4	79.6%
1000	300	131.1	13.2	88	39.9	78	35.2	0.64	474	616	0.8	77.0%
1200	300	160.6	18.7	128	58.1	113	51.2	1.11	828	1112	1.5	74.4%
1250	300	168.2	20.2	139	63.0	123	55.6	1.25	936	1269	1.7	73.8%
1300	300	175.8	21.8	151	68.5	133	60.4	1.42	1058	1446	1.9	73.2%
1350	300	183.5	23.5	164	74.4	145	65.6	1.60	1191	1640	2.2	72.7%
1400	300	191.3	25.2	176	79.8	155	70.4	1.78	1329	1845	2.5	72.0%
1450	300	199.2	27.0	191	86.6	169	76.5	2.00	1491	2083	2.8	71.6%
1500	300	207.1	28.8	205	93.0	181	82.1	2.21	1651	2326	3.1	71.0%
1550	300	215.1	30.7	218	98.9	192	87.3	2.44	1821	2589	3.5	70.3%
1600	300	223.1	32.7	233	105.7	206	93.3	2.69	2003	2873	3.9	69.7%

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

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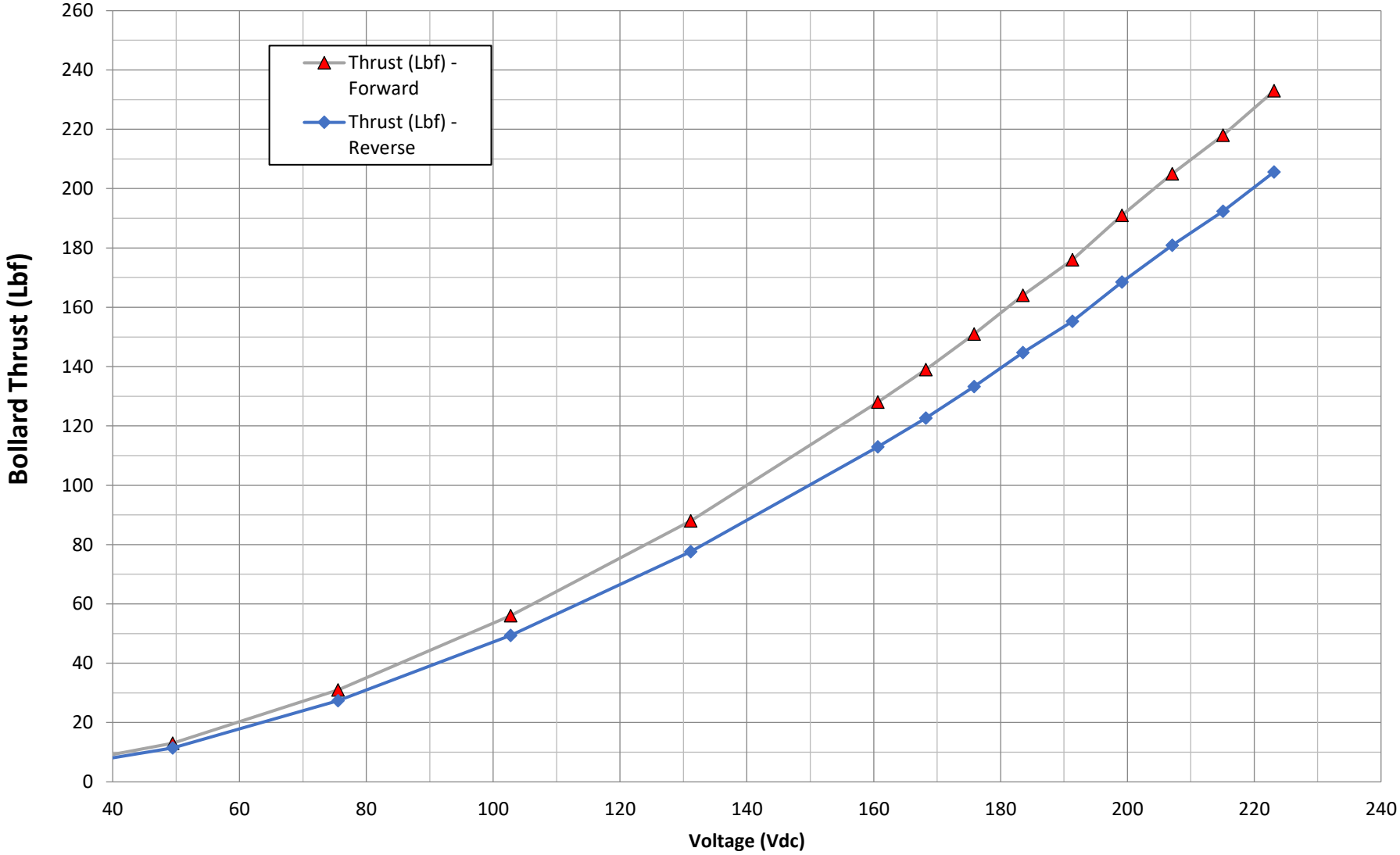
H106-12300RH10 Hexscreen Electric Thruster
Thrust (Lbf) vs Voltage (Vdc)



Note:
System Voltage equals 300 Vdc. Graph shows Thrust with Voltages below 300 Vdc.

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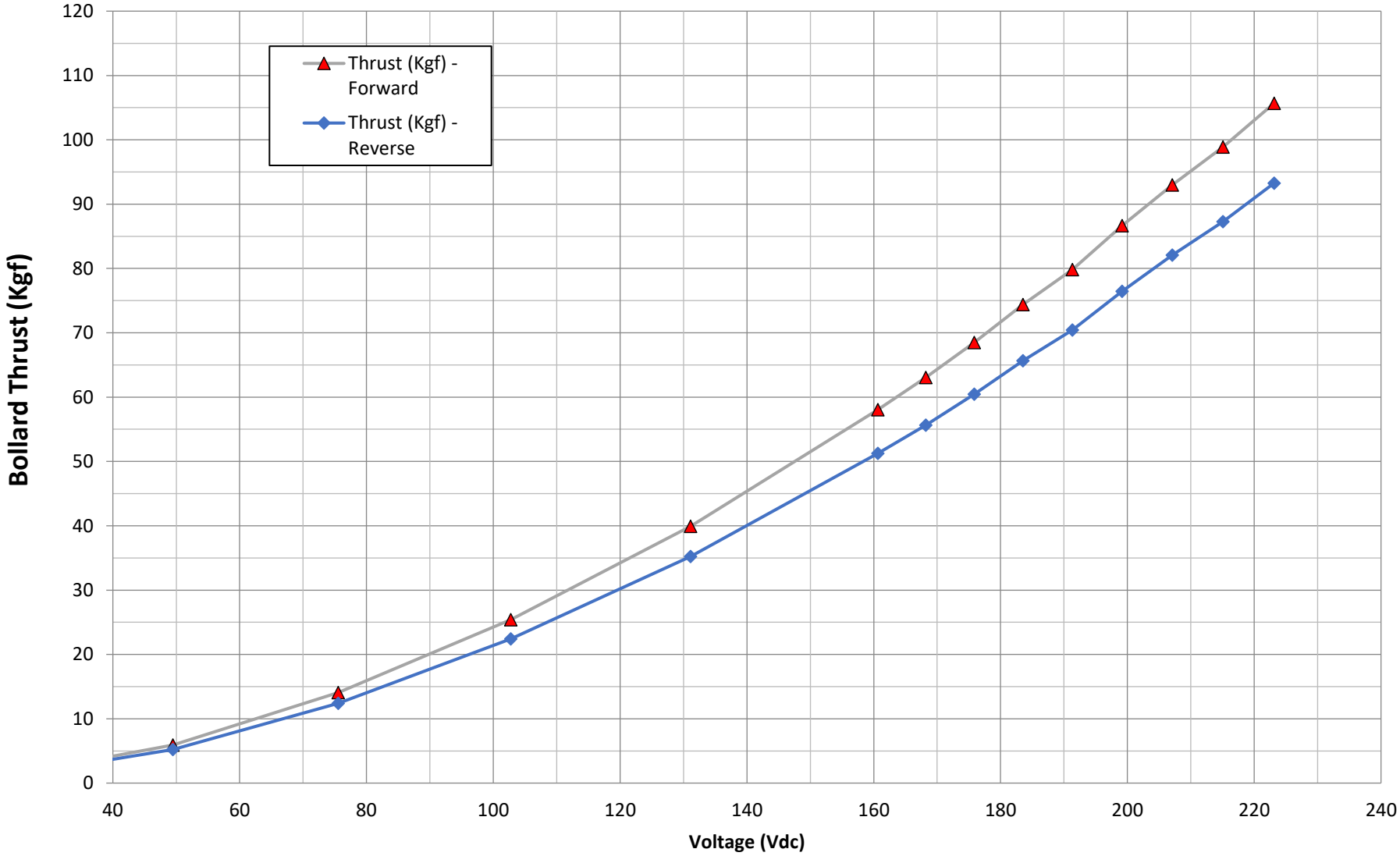

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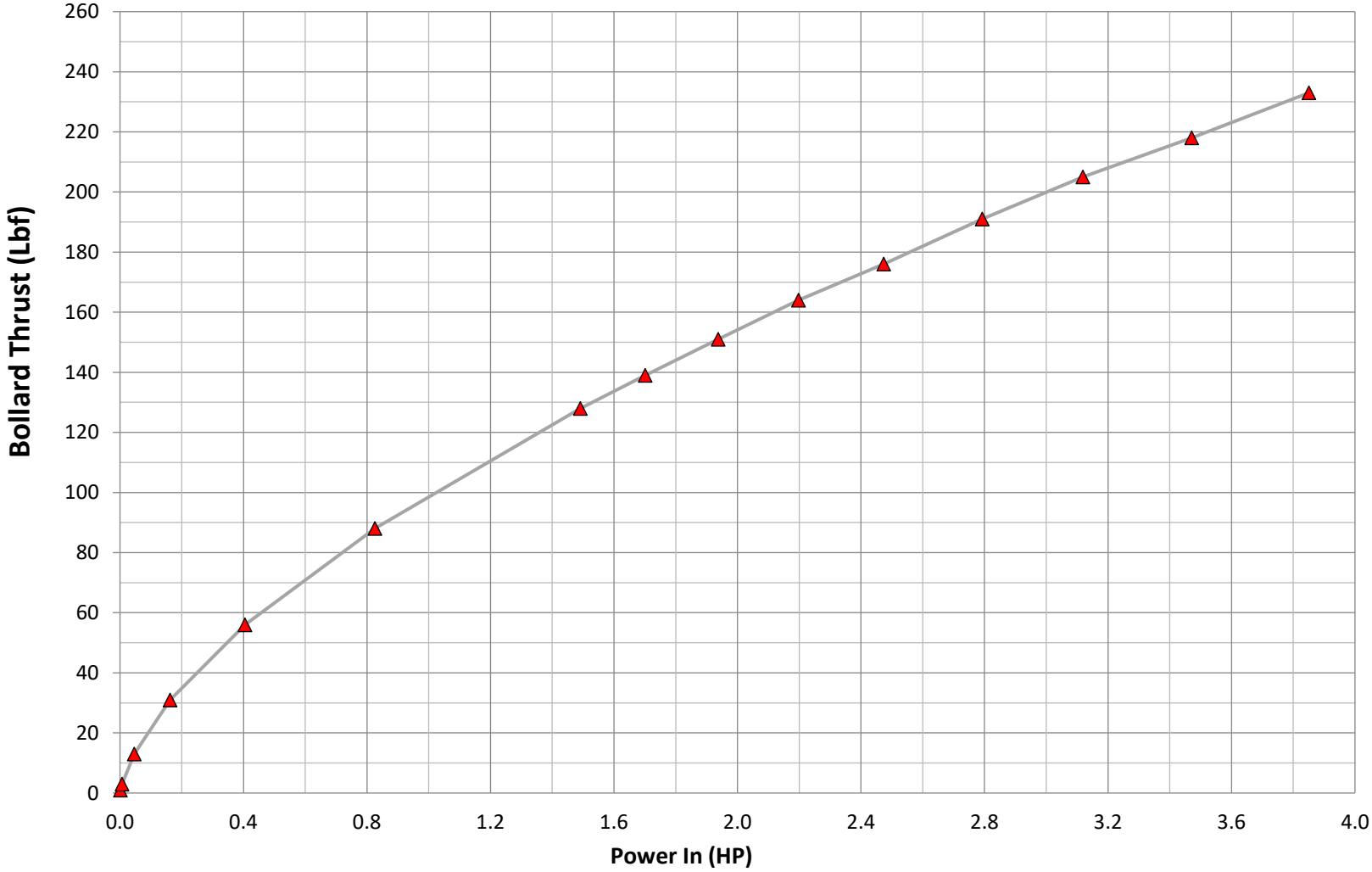
H106-12300RH10 Hexscreen Electric Thruster
Thrust (Lbf) vs Power In (HP)



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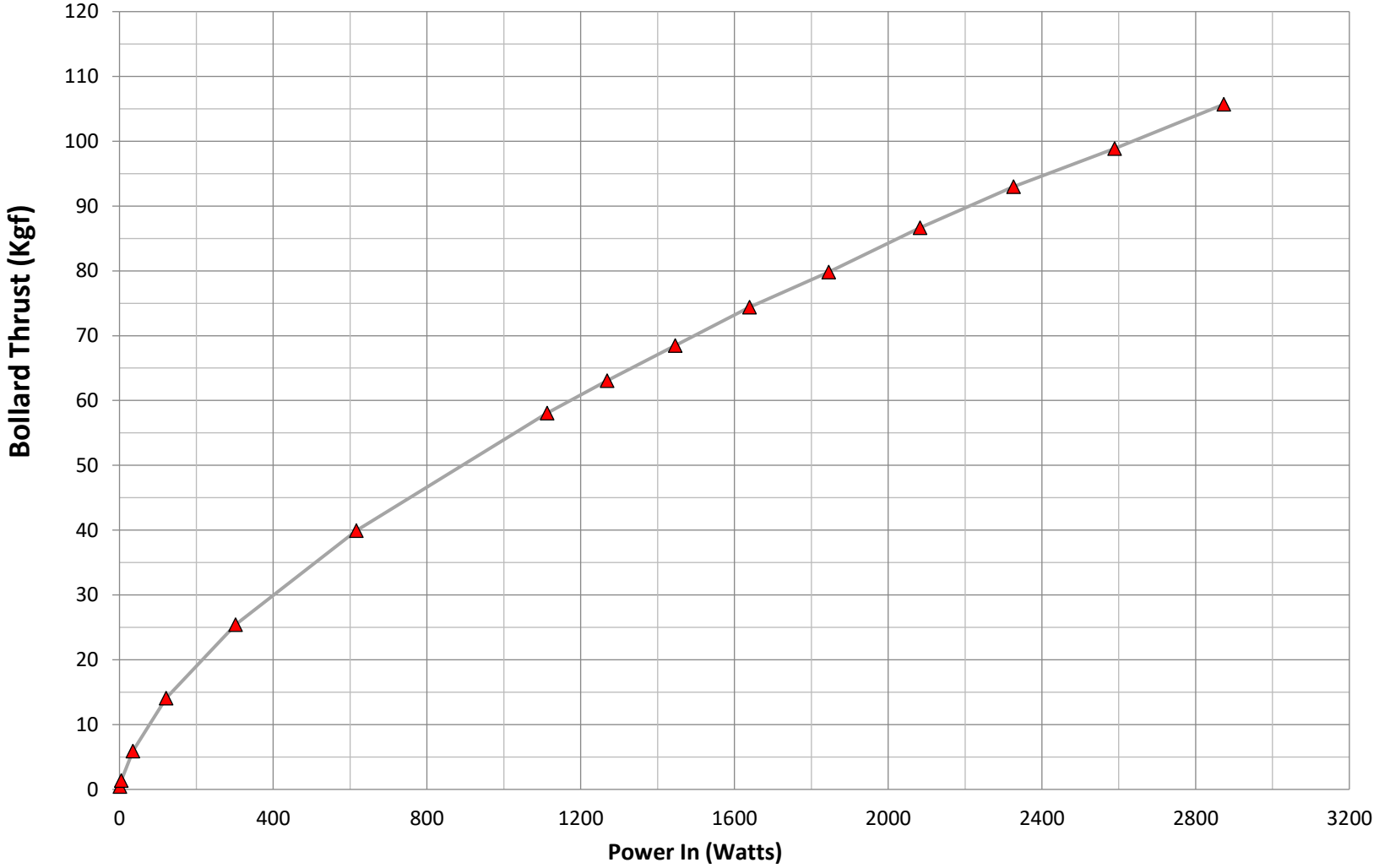
H106-12300RH10 Hexscreen Electric Thruster
Thrust (Kgf) vs Power In (Watts)



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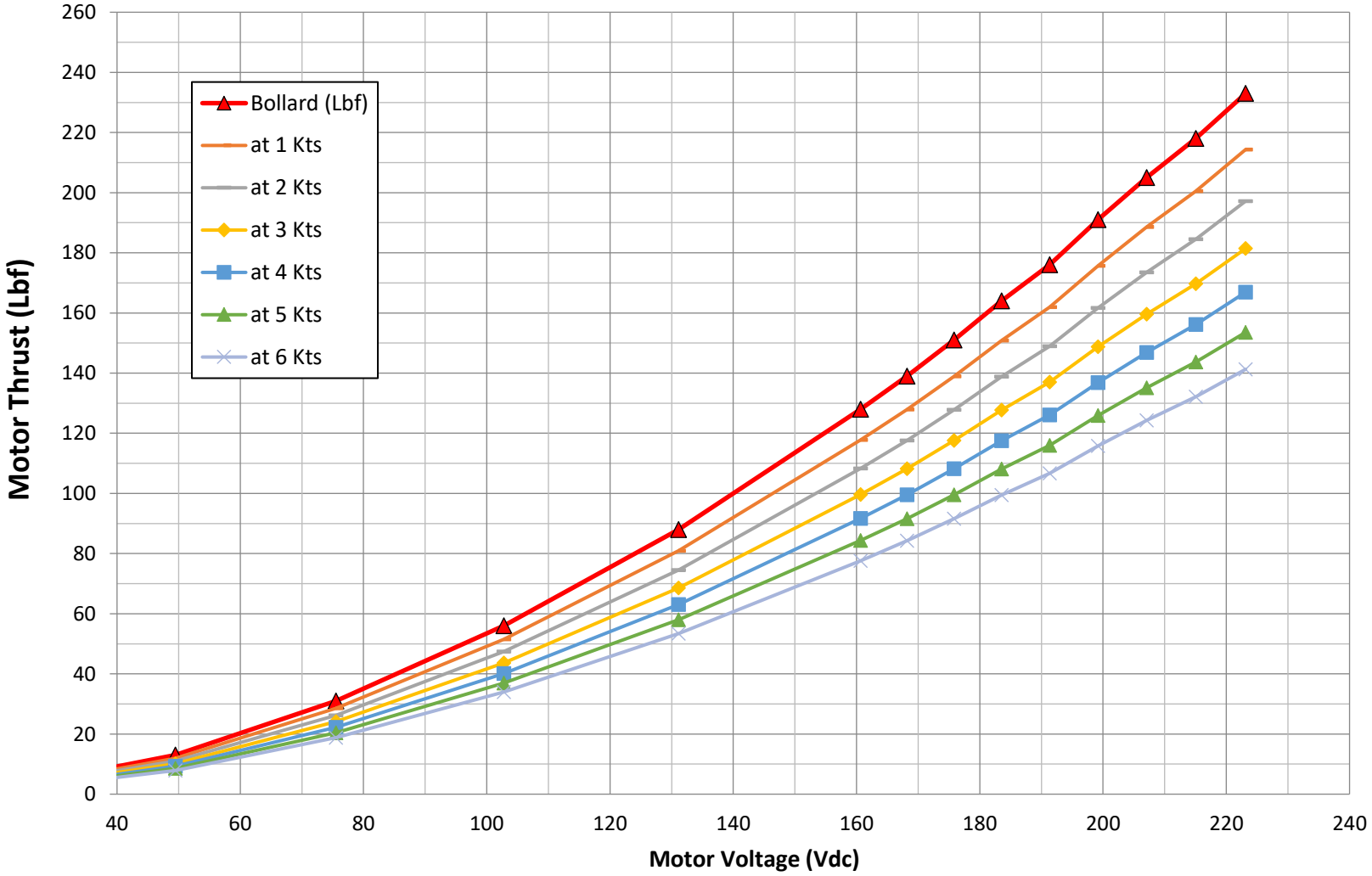
H106-12300RH10 Hexscreen Electric Thruster
Thrust (Lbf) vs Voltage (Vdc)



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 300 Vdc. Graph shows Thrust with Voltages below 300 Vdc.

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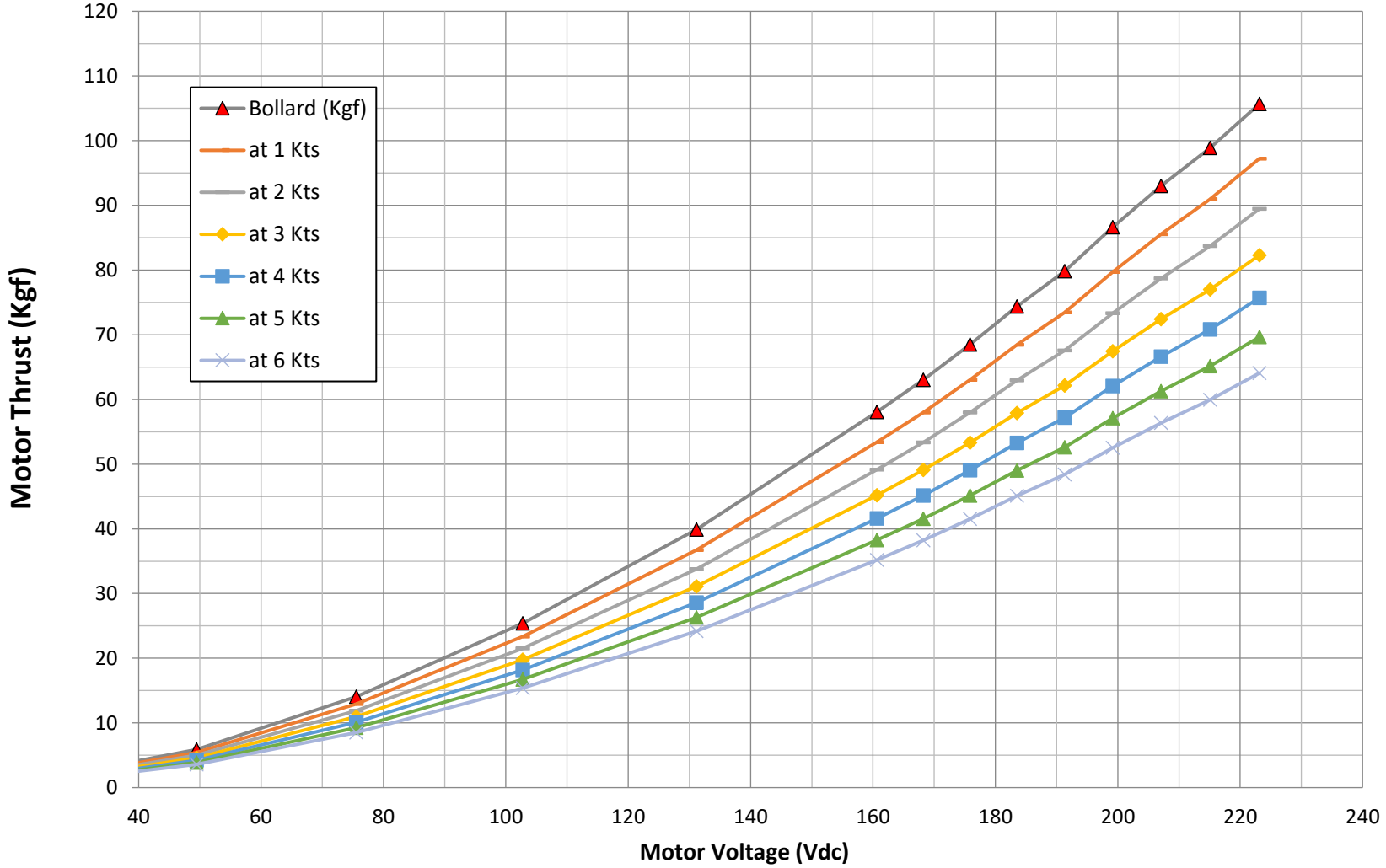

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