



H106 Hexscreen Electric Thruster with 12300RH10 Motor Performance Table

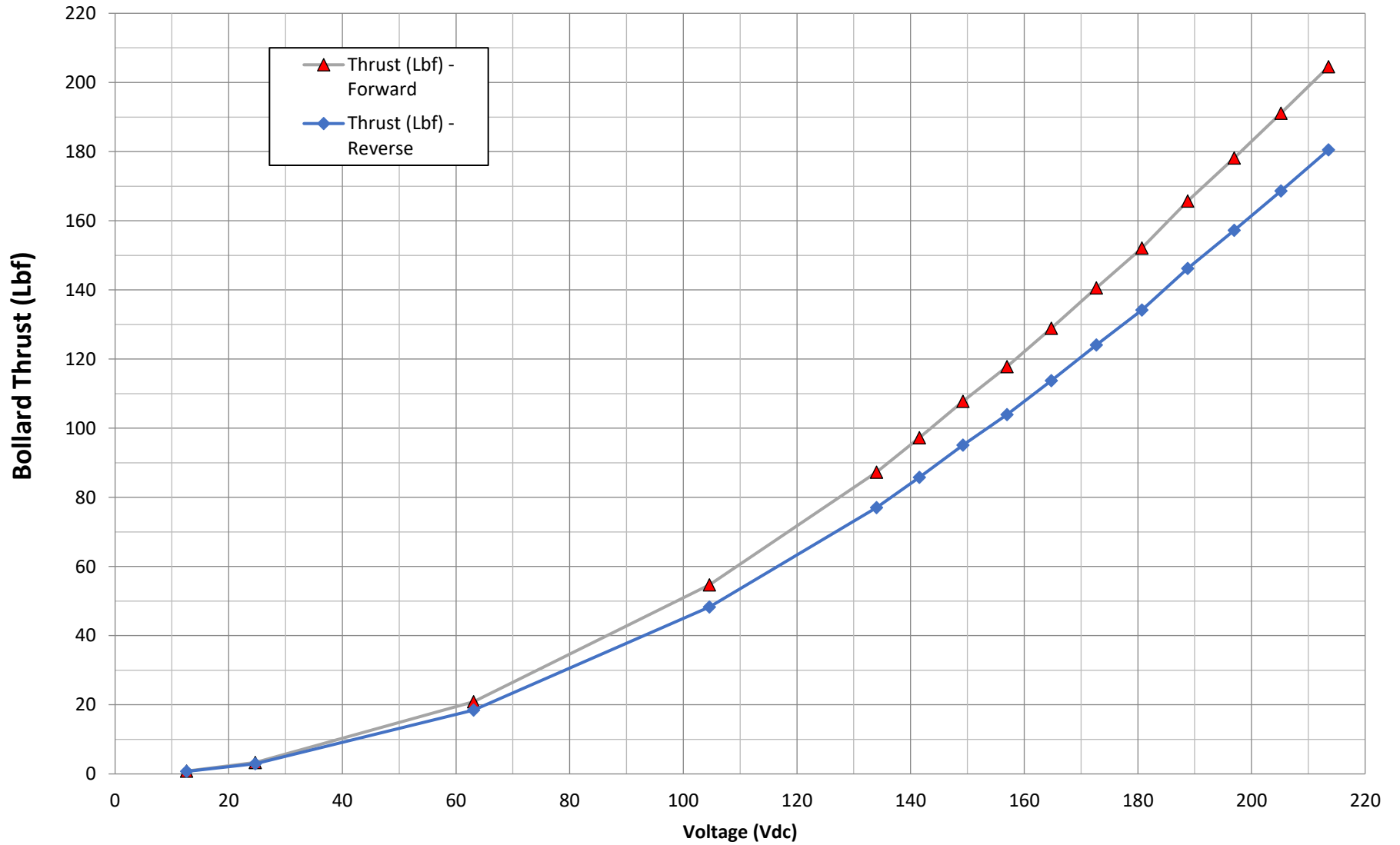
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	300	12.6	0.8	1	0.4	1	0.3	0.02	12	12	0.0	95.3%
200	300	24.7	1.3	3	1.5	3	1.3	0.05	35	37	0.0	96.3%
500	300	63.1	4.4	21	9.5	18	8.4	0.41	306	322	0.4	95.0%
800	300	104.6	10.3	55	24.8	48	21.9	1.52	1134	1220	1.6	92.9%
1000	300	134.0	15.7	87	39.6	77	34.9	2.90	2161	2362	3.2	91.5%
1050	300	141.6	17.2	97	44.1	86	38.9	3.34	2492	2733	3.7	91.2%
1100	300	149.2	18.8	108	48.9	95	43.1	3.83	2855	3144	4.2	90.8%
1150	300	157.0	20.5	118	53.4	104	47.2	4.36	3252	3595	4.8	90.5%
1200	300	164.8	22.3	129	58.5	114	51.6	4.94	3685	4089	5.5	90.1%
1250	300	172.7	24.1	141	63.8	124	56.3	5.57	4155	4628	6.2	89.8%
1300	300	180.7	26.0	152	69.0	134	60.9	6.25	4664	5215	7.0	89.4%
1350	300	188.8	28.0	166	75.1	146	66.3	6.99	5213	5852	7.8	89.1%
1400	300	196.9	30.1	178	80.8	157	71.3	7.78	5804	6540	8.8	88.7%
1450	300	205.2	32.2	191	86.7	169	76.5	8.63	6438	7283	9.8	88.4%
1500	300	213.6	34.4	205	92.8	180	81.9	9.54	7117	8082	10.8	88.1%

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



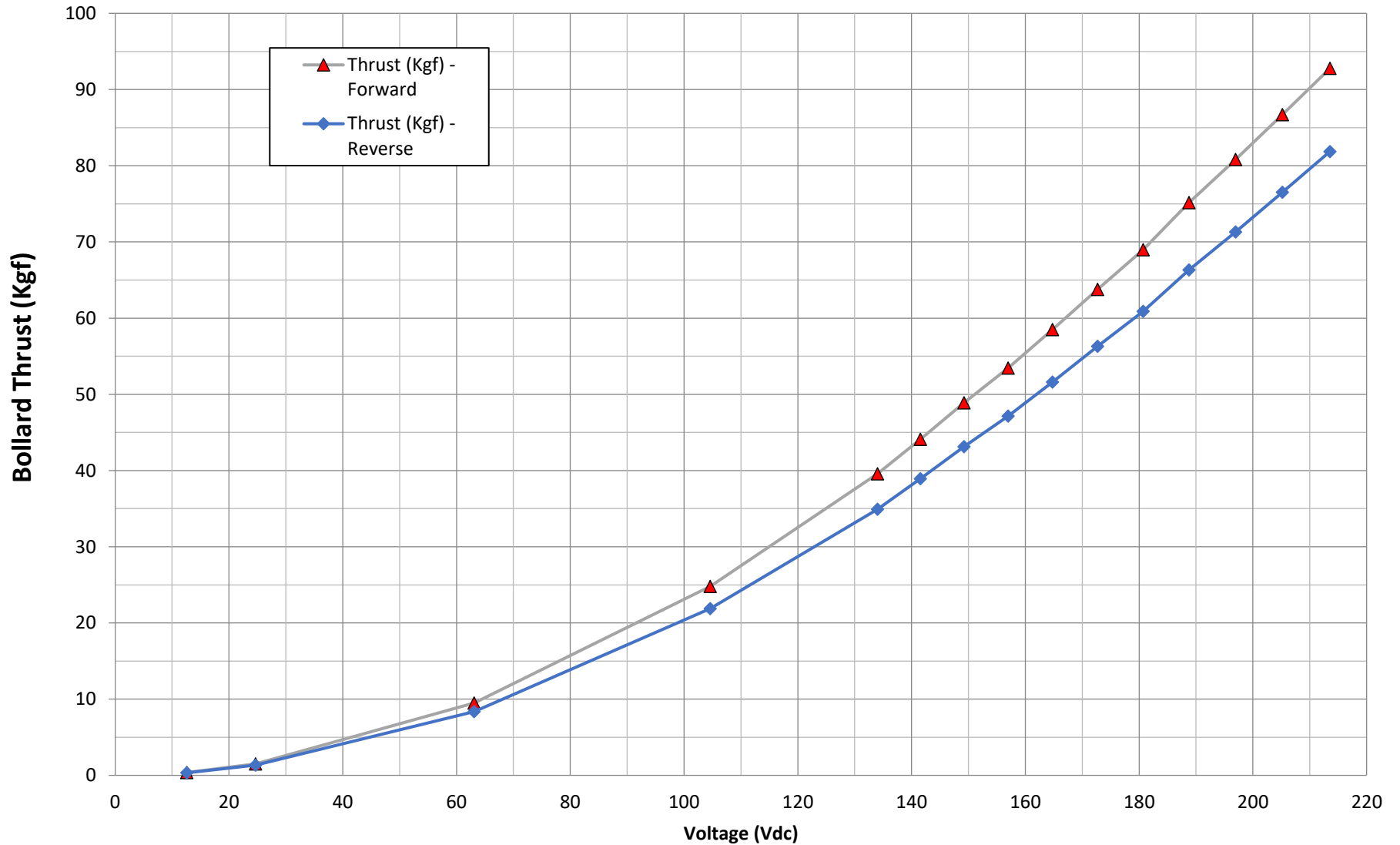
H106-12300RH10 Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



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



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

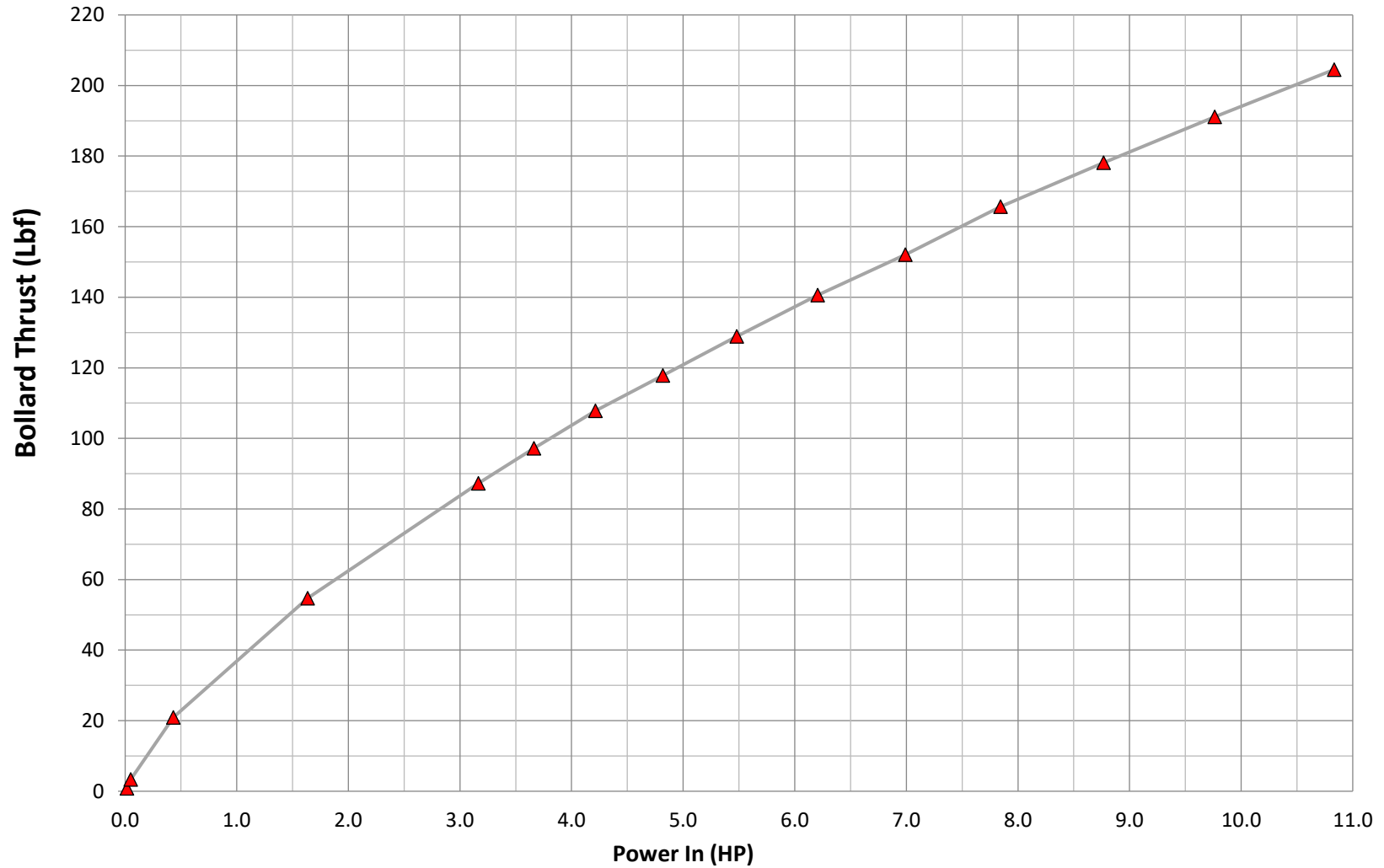


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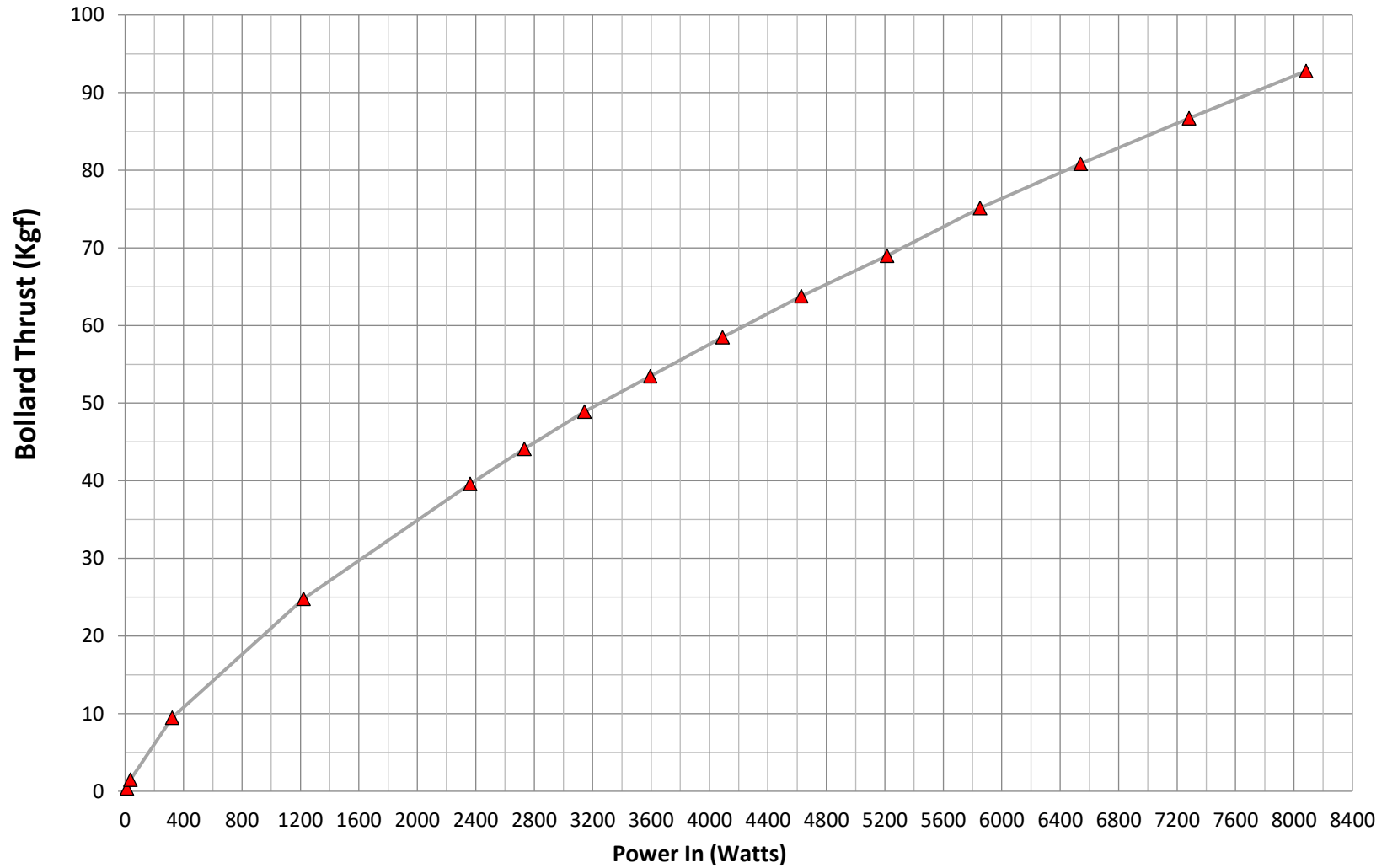
H106-12300RH10 Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





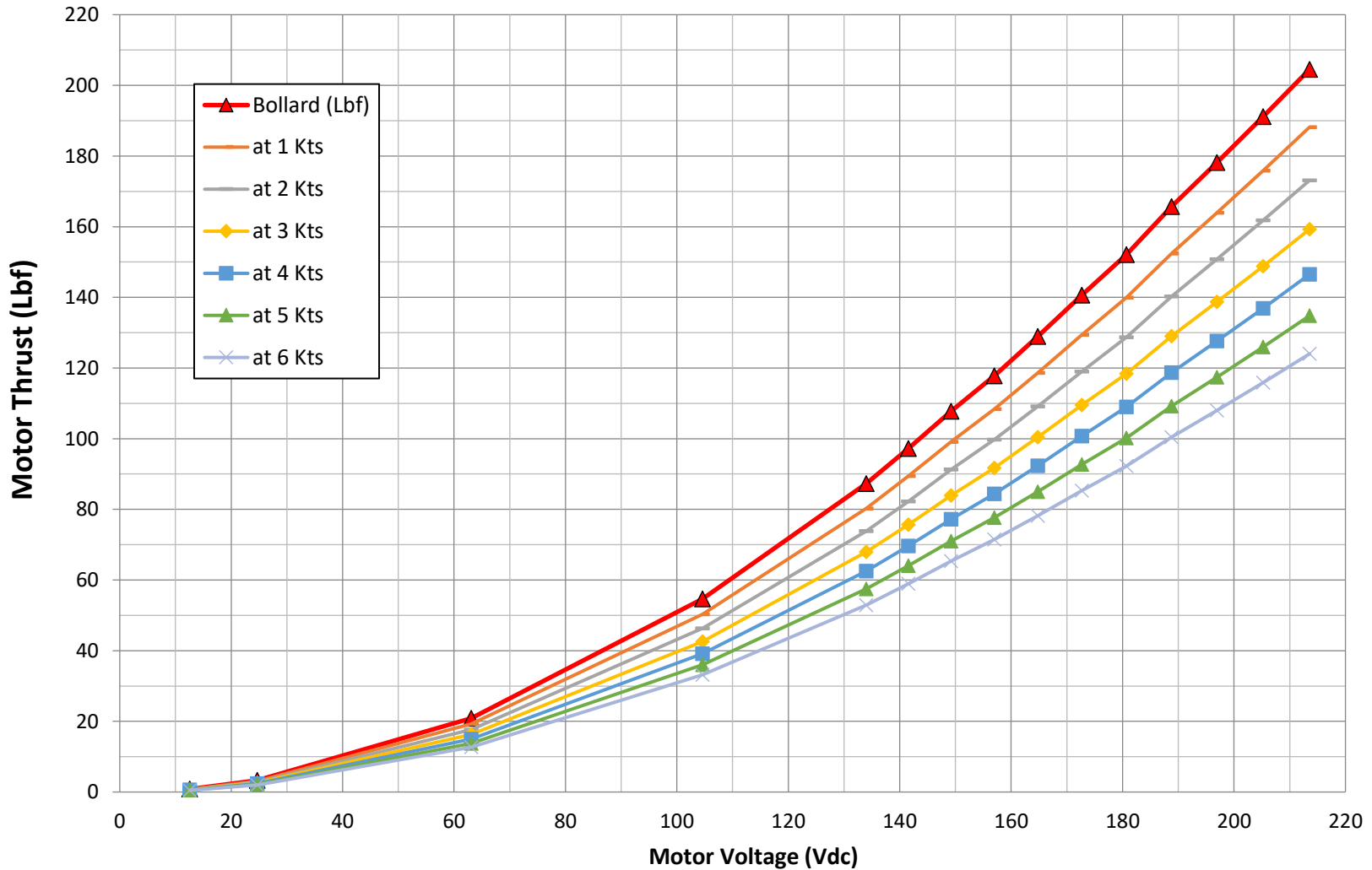
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H106-12300RH10 Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





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

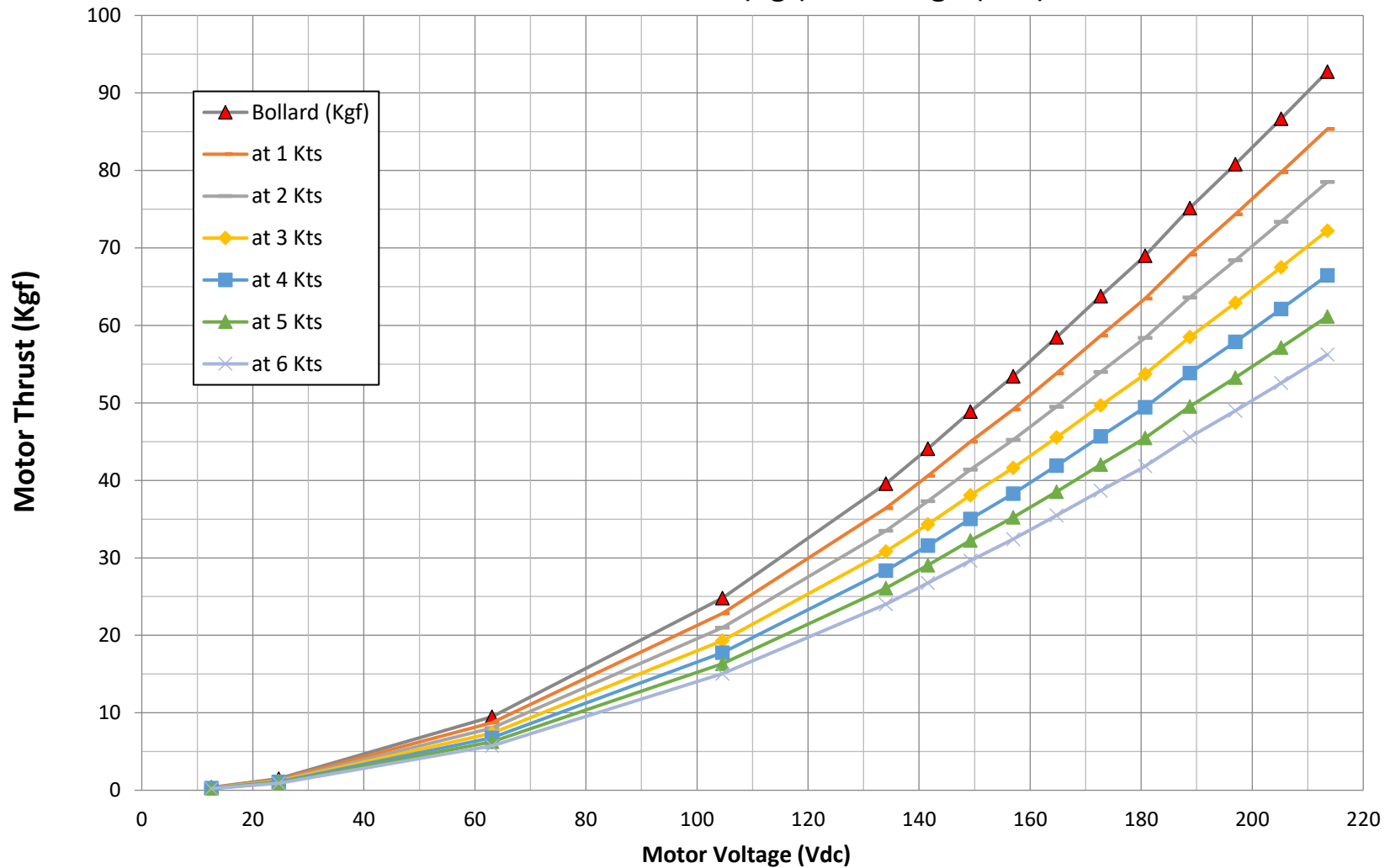


Note:

- 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.



H106-12300RH10 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 300 Vdc. Graph shows Thrust with Voltages below 300 Vdc.