INNERSPACE CORPORATION
1138 E. EDNA PLACE, COVINA, CA 91724
TEL: (626) 331-0921 FAX: (626) 966-6391
www.innerspacethrusters.com

NOMINAL VOLTAGE: 600 VDC

1002HL Hexscreen Electric Thruster with 14600XLR 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	17.8	0.6	1	0.4	1	0.4	0.02	13	13	0.0	97.0%
200	600	35.0	0.8	4	1.7	3	1.6	0.04	31	32	0.0	98.1%
400	600	69.7	1.4	15	6.9	14	6.2	0.14	108	110	0.1	98.4%
600	600	104.9	2.3	34	15.5	31	14.0	0.37	275	280	0.4	98.2%
800	600	140.7	3.7	61	27.5	55	25.0	0.78	579	591	0.8	97.8%
1000	600	176.9	5.4	95	43.0	86	39.0	1.43	1064	1091	1.5	97.5%
1200	600	213.7	7.5	137	62.0	124	56.1	2.38	1775	1829	2.5	97.1%
1500	600	269.8	11.4	213	96.8	193	87.7	4.51	3368	3491	4.7	96.5%
1800	600	327.1	16.1	307	139.4	279	126.3	7.68	5726	5973	8.0	95.9%
2000	600	366.0	19.7	379	172.1	344	156.0	10.45	7798	8170	11.0	95.5%
2200	600	405.3	23.8	459	208.2	416	188.7	13.84	10325	10863	14.6	95.0%
2300	600	425.2	25.9	502	227.6	455	206.3	15.78	11773	12413	16.6	94.8%
2400	600	445.2	28.2	546	247.8	495	224.6	17.90	13351	14106	18.9	94.6%
2500	600	465.3	30.5	593	268.9	537	243.7	20.19	15065	15952	21.4	94.4%
2550	600	475.4	31.7	617	279.8	559	253.5	21.41	15975	16933	22.7	94.3%

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

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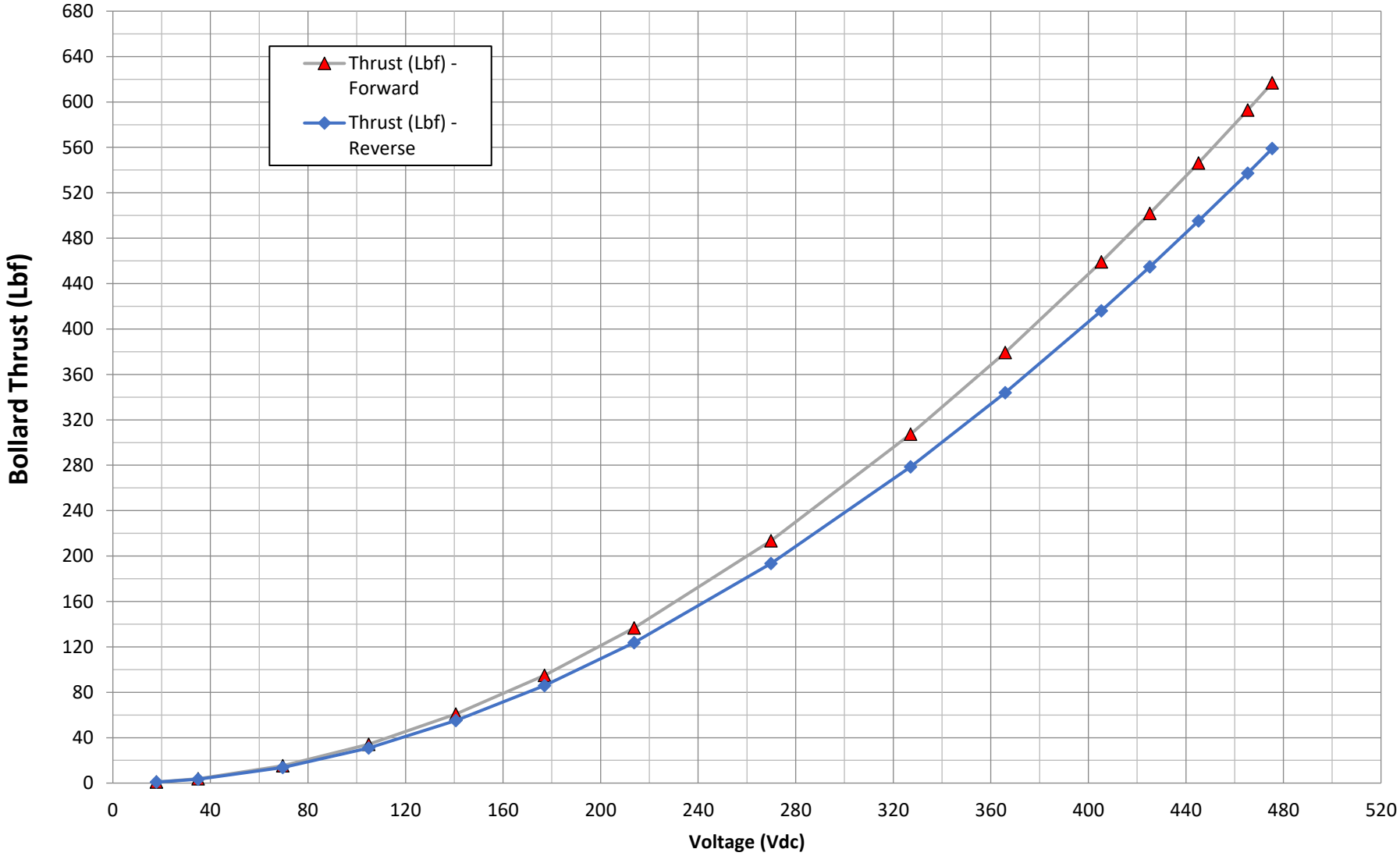
1002HL-14600XLR Hexscreen Electric Thruster
Thrust (Lbf) vs Voltage (Vdc)



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

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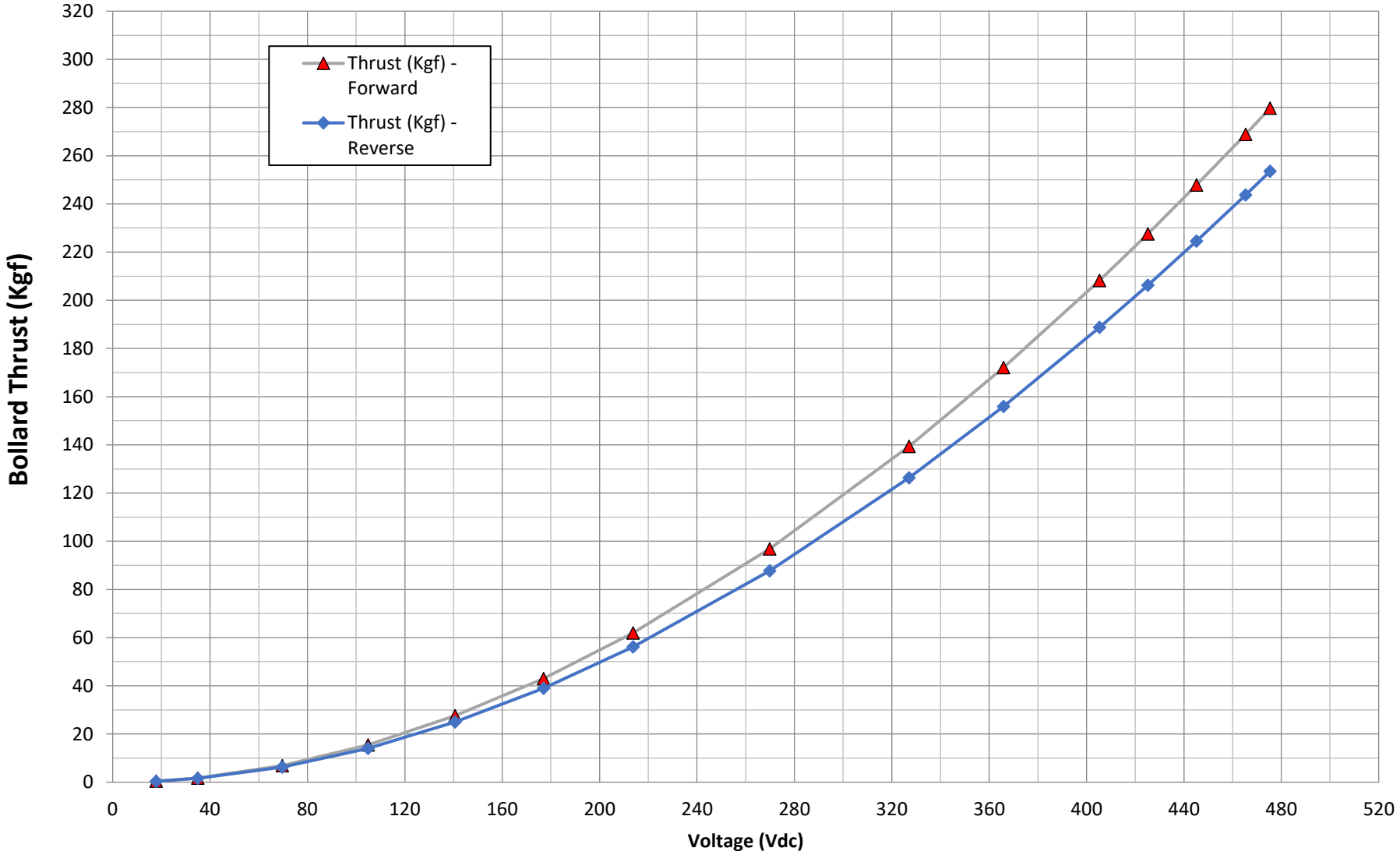

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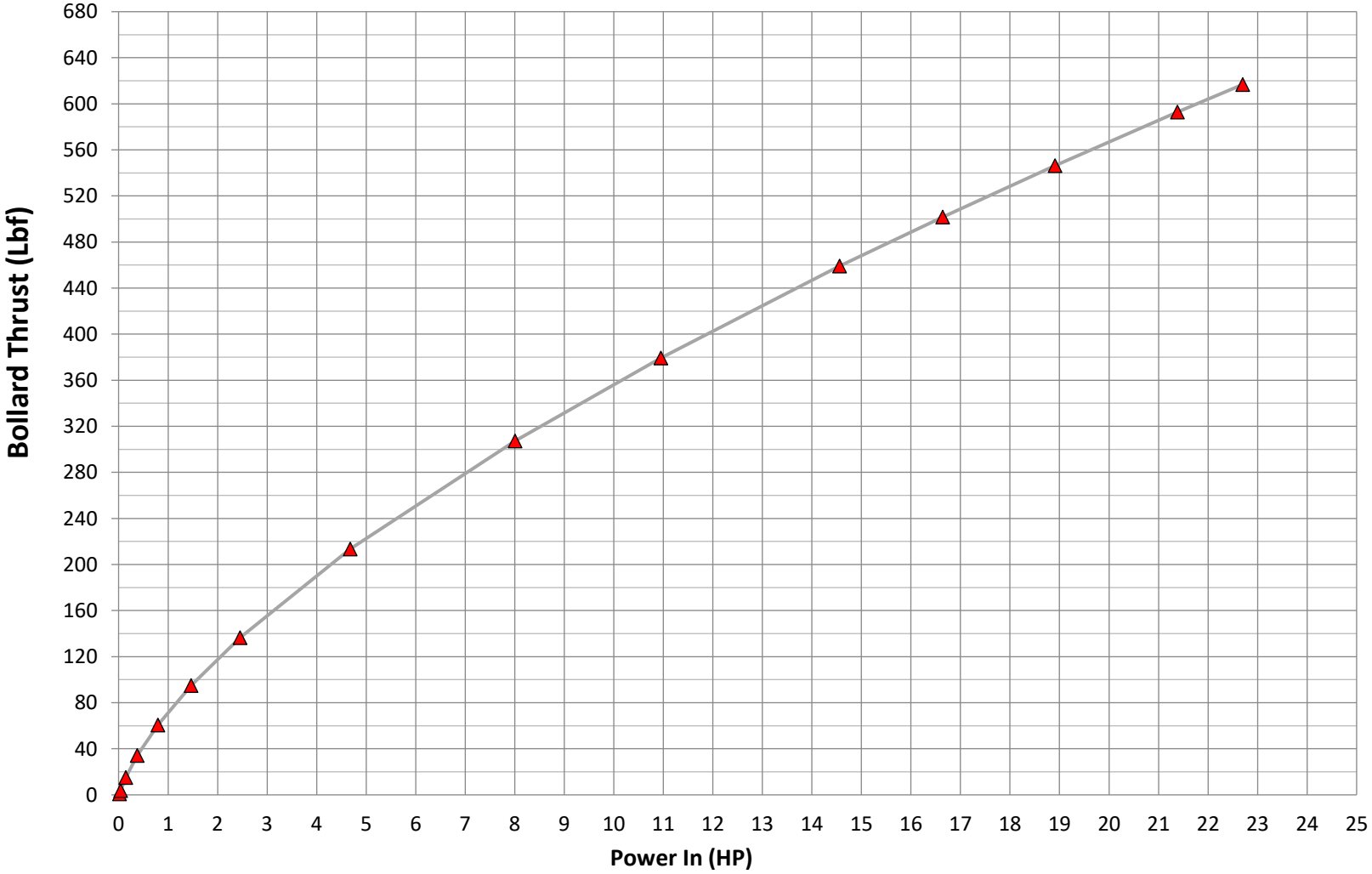
Thrust (Lbf) vs Power In (HP)



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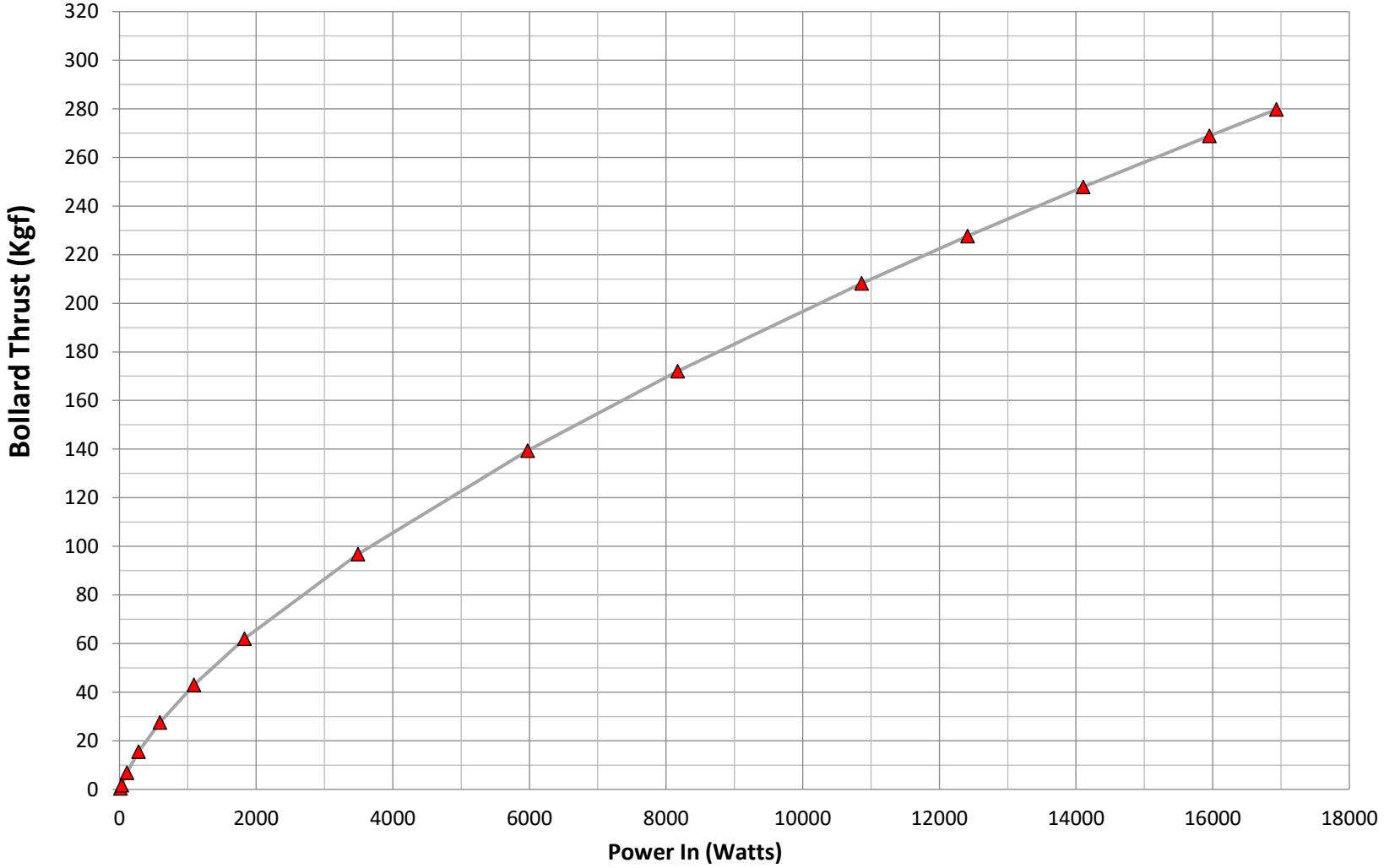
Thrust (Kgf) vs Power In (Watts)



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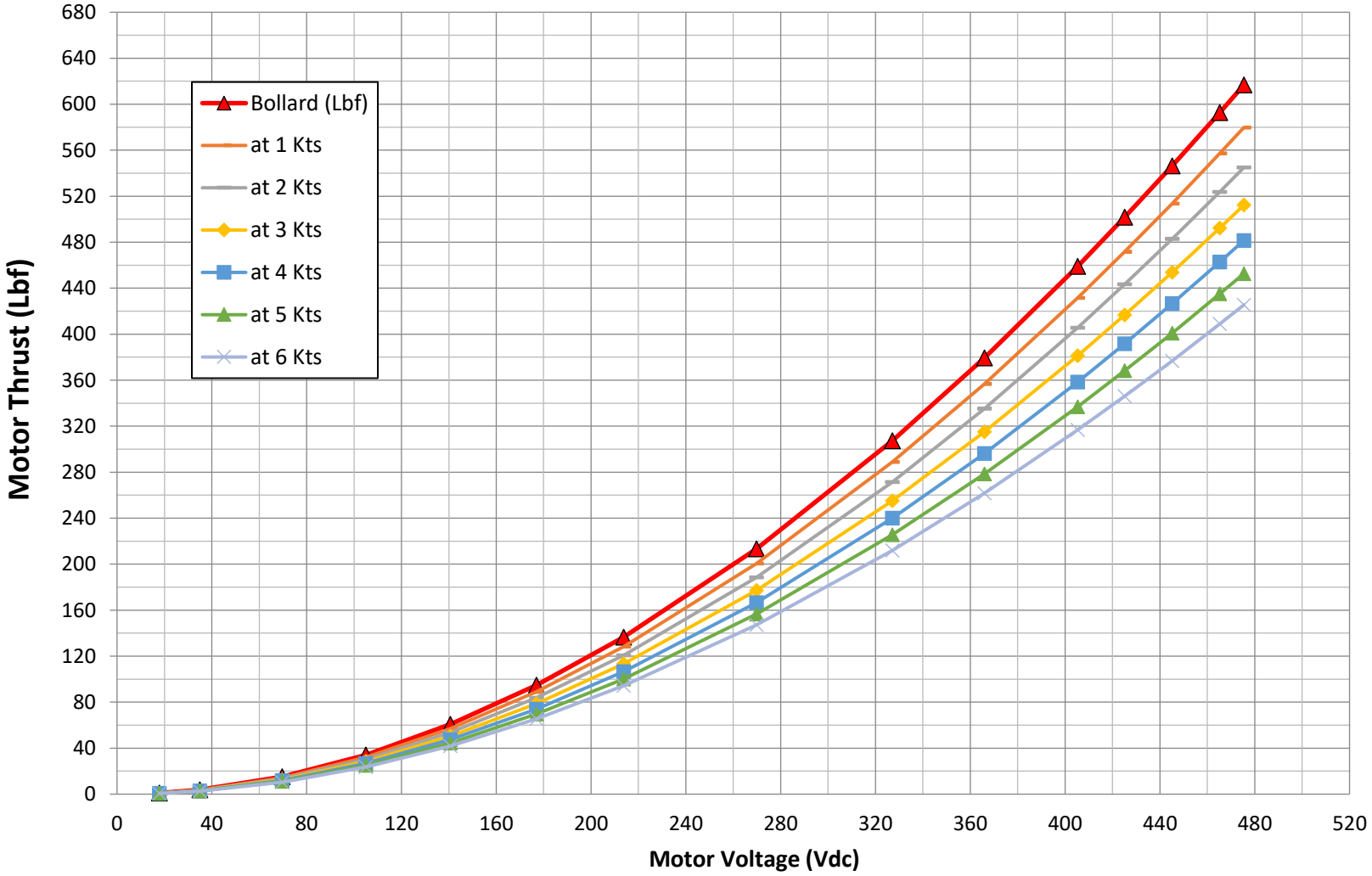
Thrust (Lbf) vs Voltage (Vdc)



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 600VDC. Graph shows Thrust with Voltages below 600VDC.

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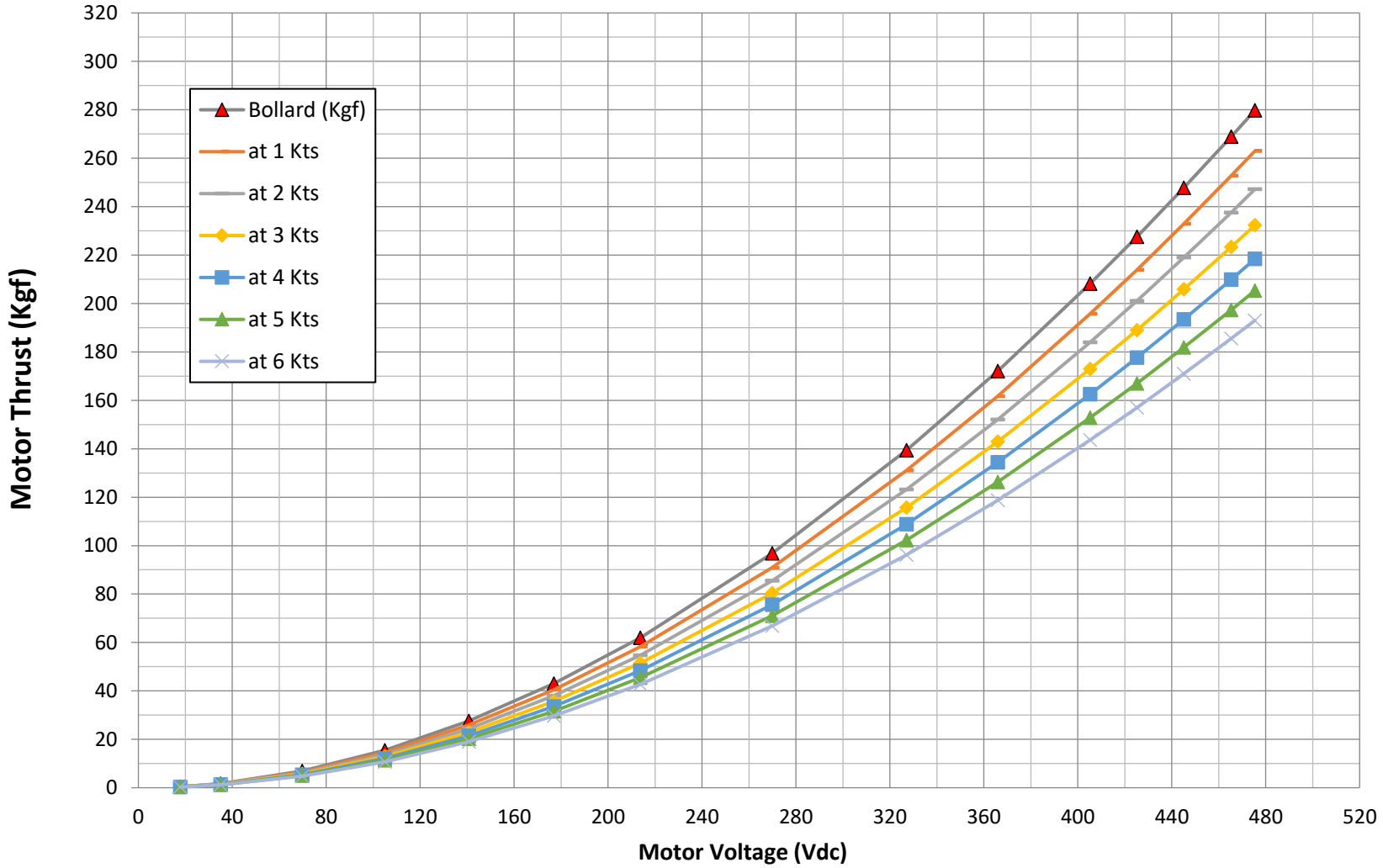

Note:
1) For Thrust at Forward Vehicle Speed (Kts), anything lower than 500 RPM varies greatly with vehicle design.
2) Thrust at forward vehicle speed from 1 Kts to 6 Kts is based on a local water speed with a very conservative vehicle wake factor.
3) System Voltage equals 600VDC. Graph shows Thrust with Voltages below 600VDC.