



**1002HL Hexscreen Electric Thruster with 14300XLR Motor Performance Table**

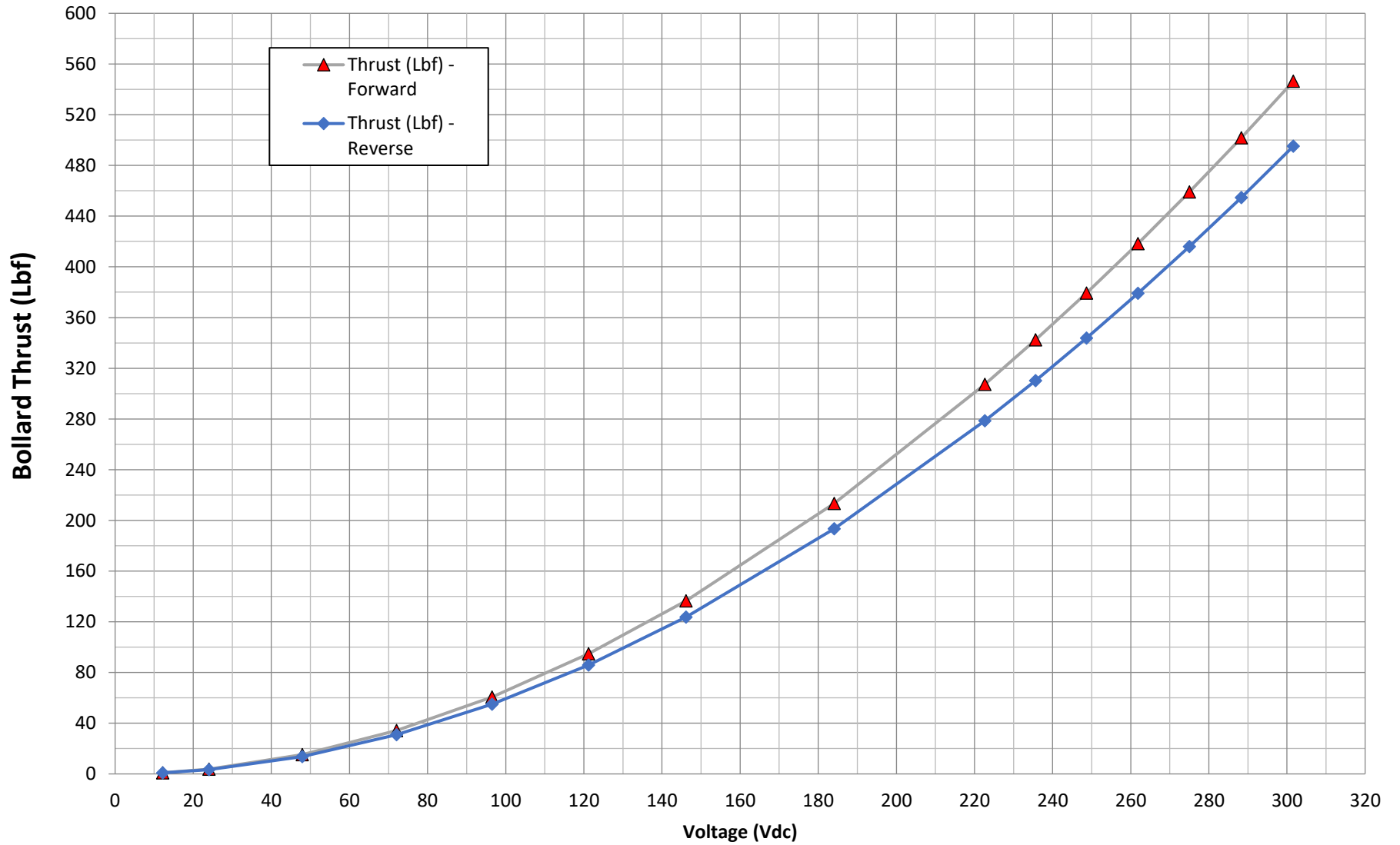
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	300	12.2	0.9	1	0.4	1	0.4	0.02	13	13	0.0	97.7%
200	300	24.0	1.1	4	1.7	3	1.6	0.04	31	32	0.0	98.6%
400	300	47.9	2.0	15	6.9	14	6.2	0.14	108	109	0.1	98.8%
600	300	72.1	3.4	34	15.5	31	14.0	0.37	275	279	0.4	98.6%
800	300	96.5	5.3	61	27.5	55	25.0	0.78	579	588	0.8	98.3%
1000	300	121.2	7.8	95	43.0	86	39.0	1.43	1064	1085	1.5	98.1%
1200	300	146.1	10.8	137	62.0	124	56.1	2.38	1775	1816	2.4	97.8%
1500	300	184.1	16.4	213	96.8	193	87.7	4.51	3368	3461	4.6	97.3%
1800	300	222.7	23.3	307	139.4	279	126.3	7.68	5726	5913	7.9	96.8%
1900	300	235.6	25.8	342	155.3	310	140.8	8.99	6708	6940	9.3	96.7%
2000	300	248.7	28.5	379	172.1	344	156.0	10.45	7798	8081	10.8	96.5%
2100	300	261.8	31.4	418	189.7	379	171.9	12.07	9002	9343	12.5	96.3%
2200	300	275.0	34.4	459	208.2	416	188.7	13.84	10325	10734	14.4	96.2%
2300	300	288.3	37.5	502	227.6	455	206.3	15.78	11773	12259	16.4	96.0%
2400	300	301.6	40.7	546	247.8	495	224.6	17.90	13351	13925	18.7	95.9%

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



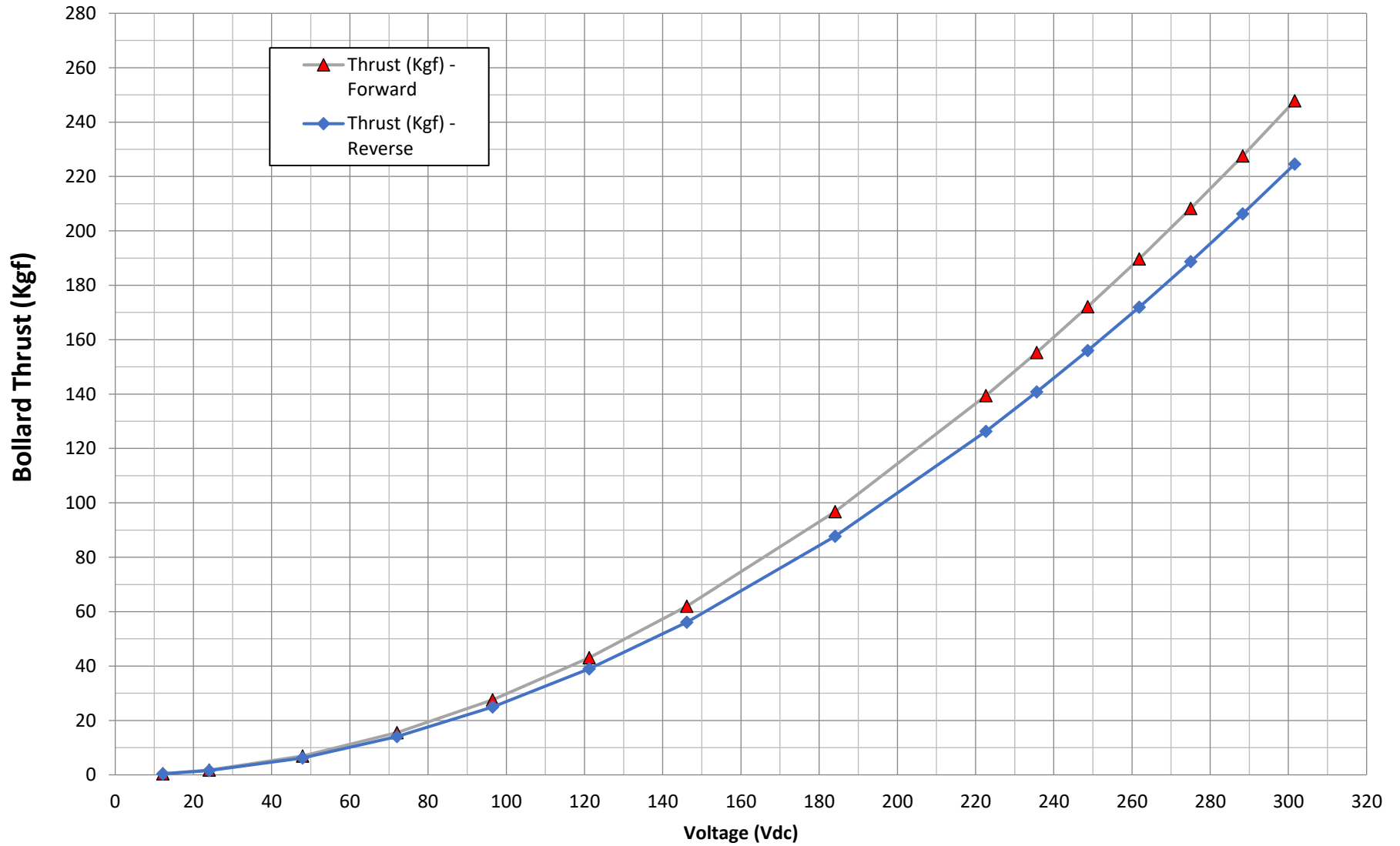
### 1002HL-14300XLR Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



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



### 1002HL-14300XLR Hexscreen Electric Thruster Thrust (Kgf) vs Voltage (Vdc)

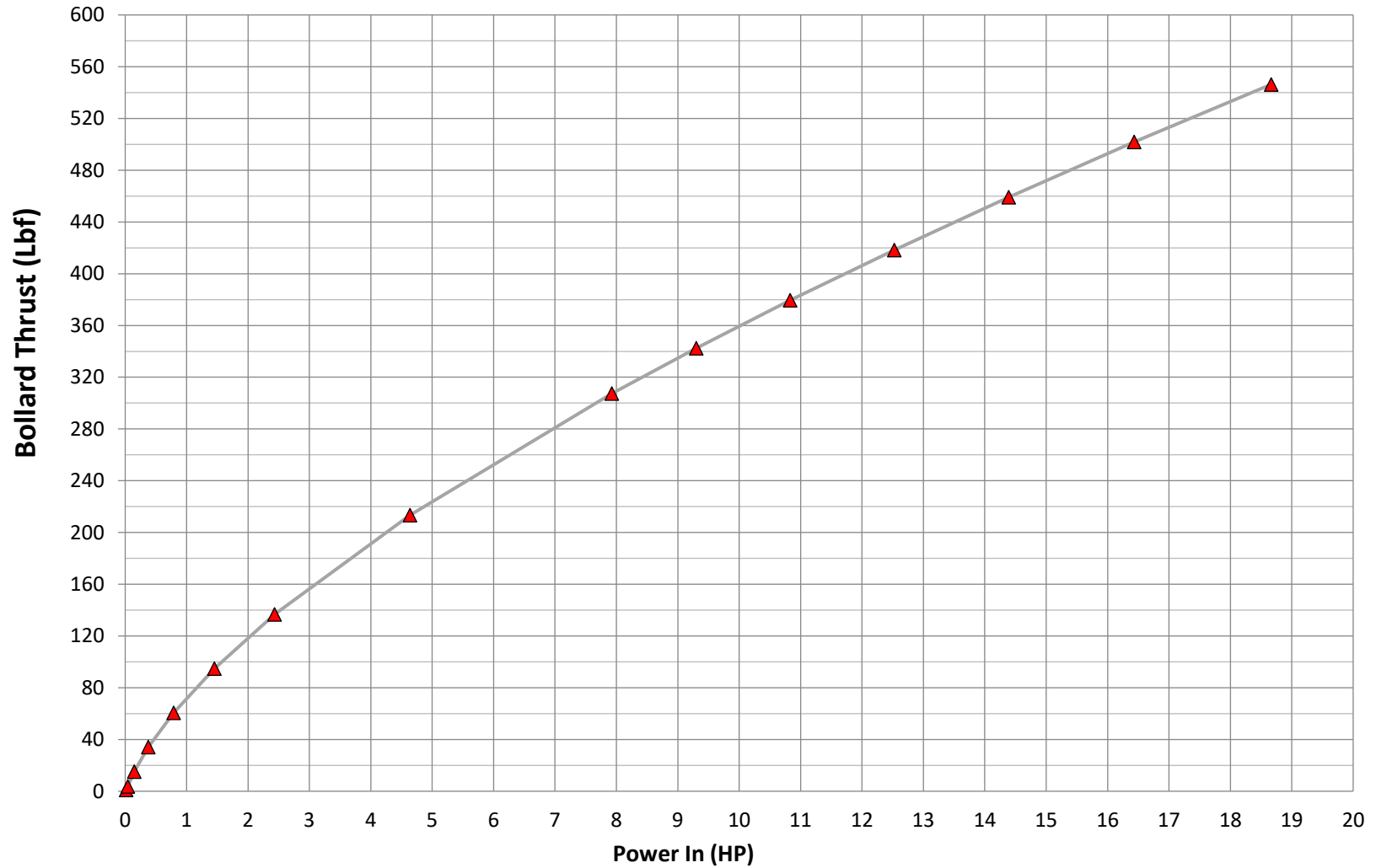


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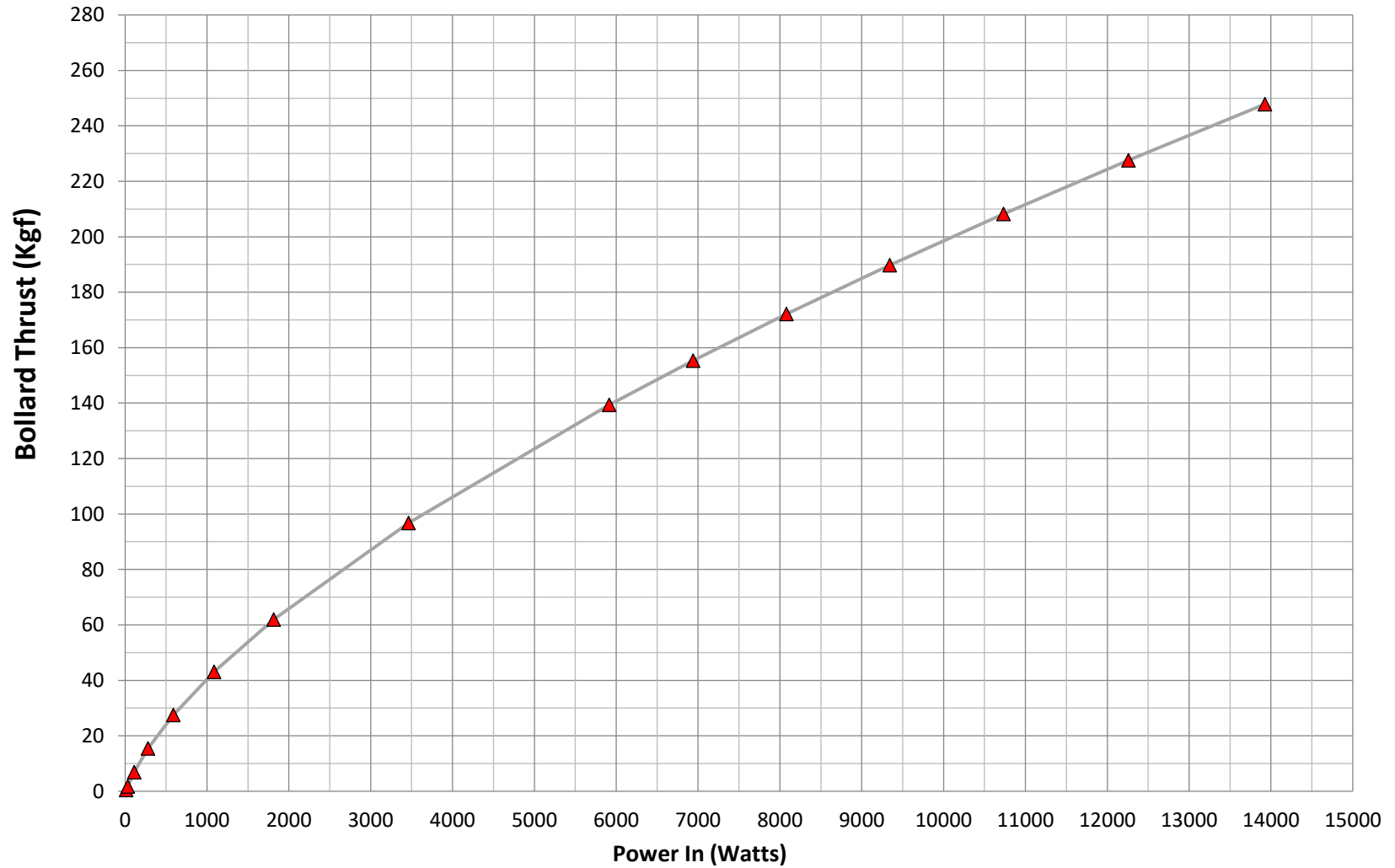
### 1002HL-14300XLR Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





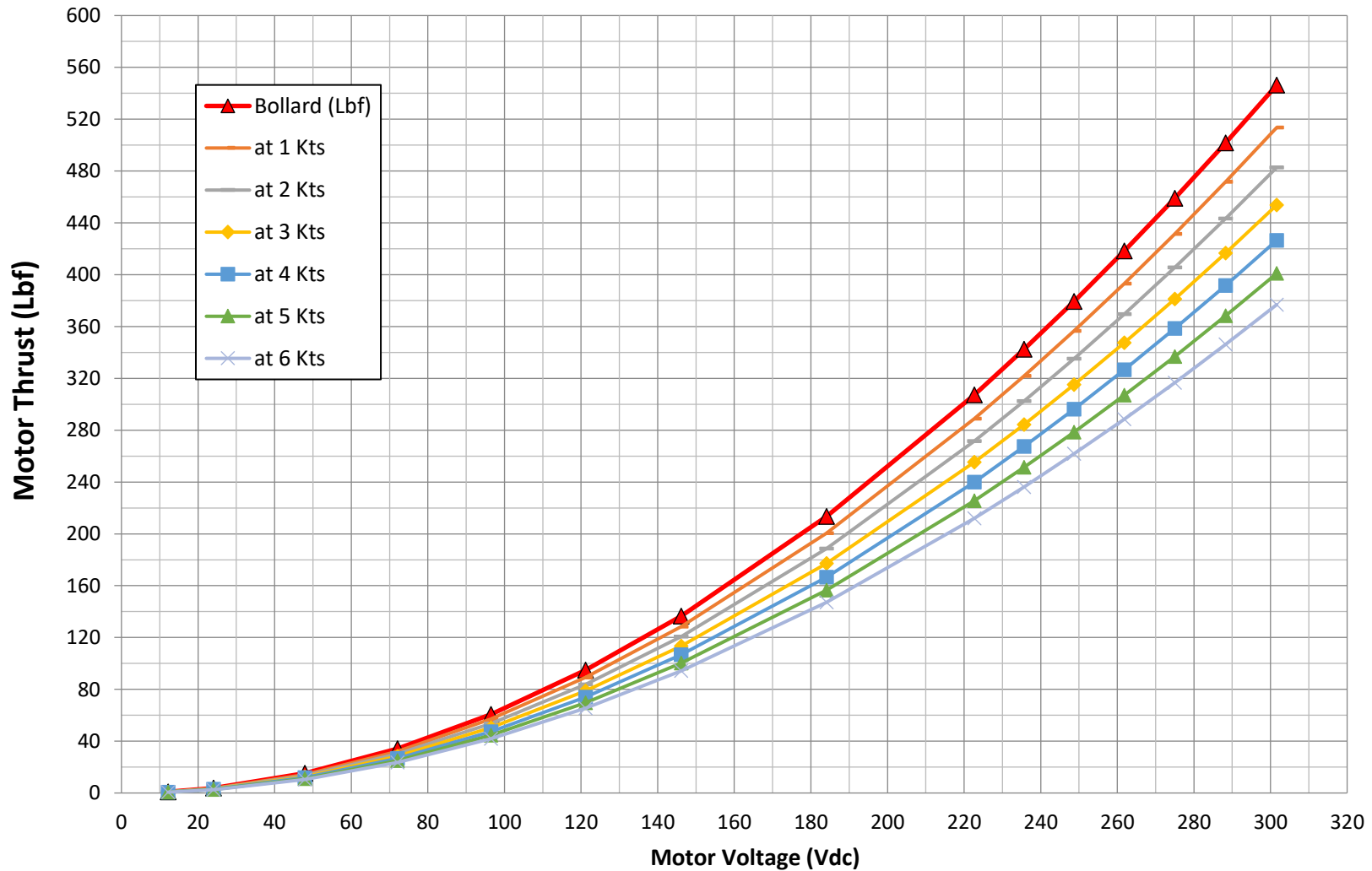
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### 1002HL-14300XLR Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





## 1002HL-14300XLR Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



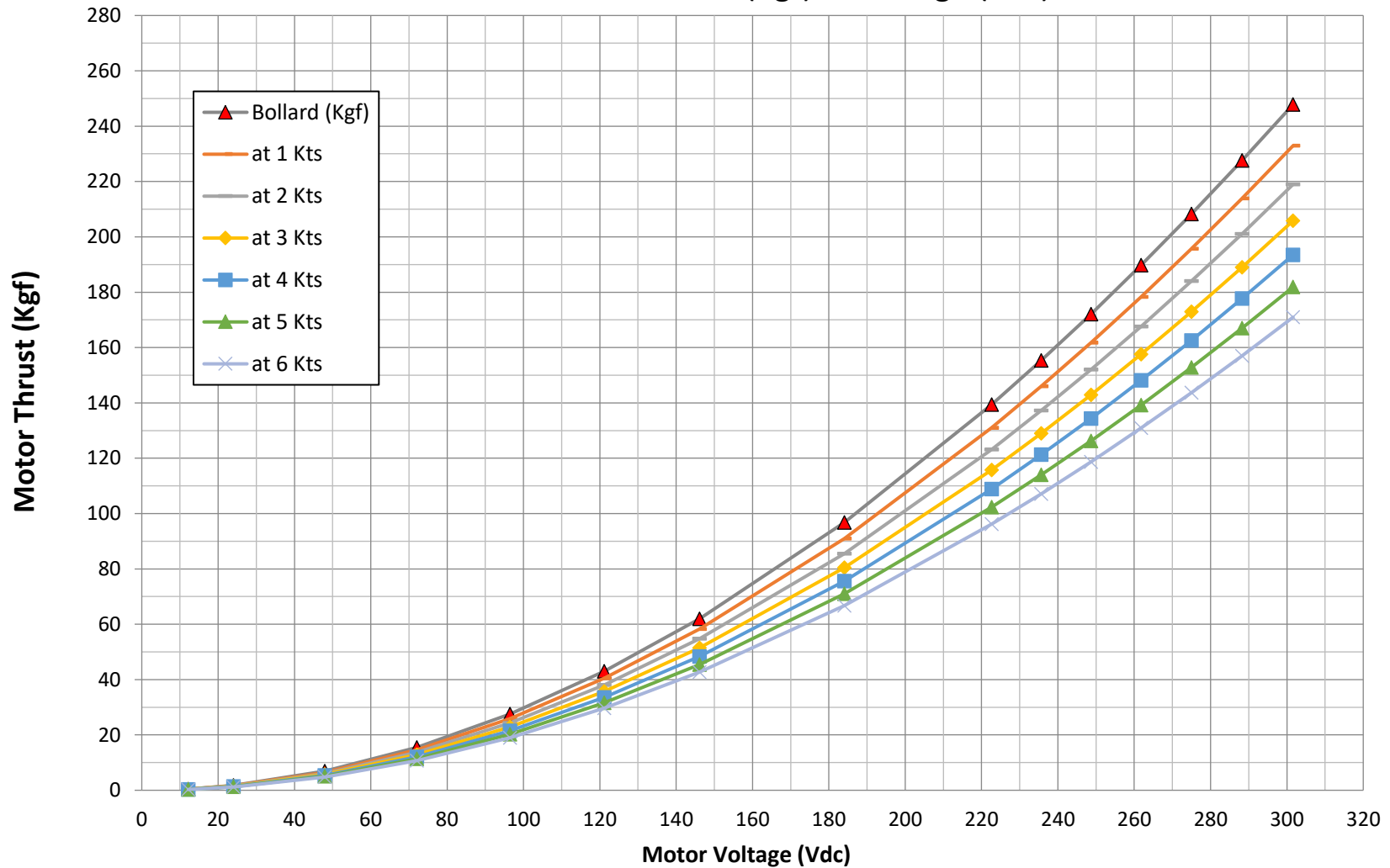
**Note:**

- 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 300VDC. Graph shows Thrust with Voltages below 300VDC.



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## 1002HL-14300XLR 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 300VDC. Graph shows Thrust with Voltages below 300VDC.