



1004B Hexscreen Electric Thruster with 3300R Motor Performance Table

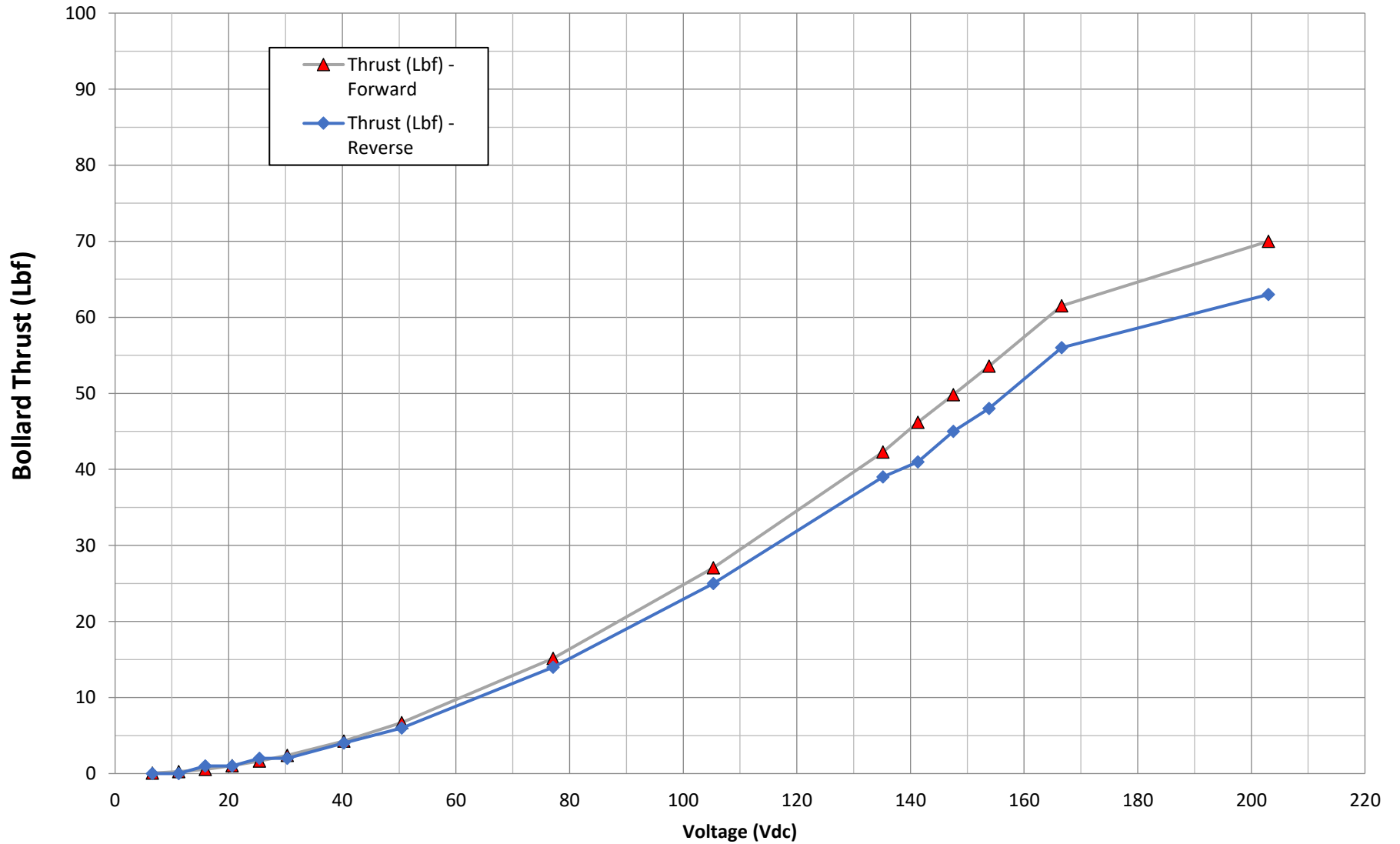
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	300	6.6	0.7	0	0.0	0	0.0	0.00	4	5	0.0	79.1%
200	300	11.2	0.7	0	0.1	0	0.0	0.01	8	9	0.0	87.8%
300	300	15.9	0.7	1	0.3	1	0.5	0.02	12	13	0.0	91.0%
400	300	20.6	0.8	1	0.5	1	0.5	0.02	18	19	0.0	92.4%
500	300	25.4	0.9	2	0.7	2	0.9	0.03	25	27	0.0	93.2%
600	300	30.3	1.0	2	1.1	2	0.9	0.05	34	36	0.0	93.6%
800	300	40.3	1.3	4	1.9	4	1.8	0.08	58	61	0.1	93.8%
1000	300	50.5	1.7	7	3.0	6	2.7	0.12	92	99	0.1	93.7%
1500	300	77.1	3.0	15	6.9	14	6.4	0.33	245	265	0.4	92.6%
2000	300	105.3	4.8	27	12.3	25	11.3	0.71	526	577	0.8	91.2%
2500	300	135.2	7.2	42	19.2	39	17.7	1.31	978	1091	1.5	89.7%
2600	300	141.3	7.7	46	21.0	41	18.6	1.47	1093	1222	1.6	89.4%
2700	300	147.6	8.3	50	22.6	45	20.4	1.63	1216	1365	1.8	89.1%
2800	300	153.8	8.9	54	24.3	48	21.8	1.81	1349	1519	2.0	88.8%
3000	300	166.6	10.1	62	27.9	56	25.4	2.20	1644	1864	2.5	88.5%
3200	300	203.0	11.0	70	31.8	63	28.6	2.65	1979	2226	3.0	88.2%

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



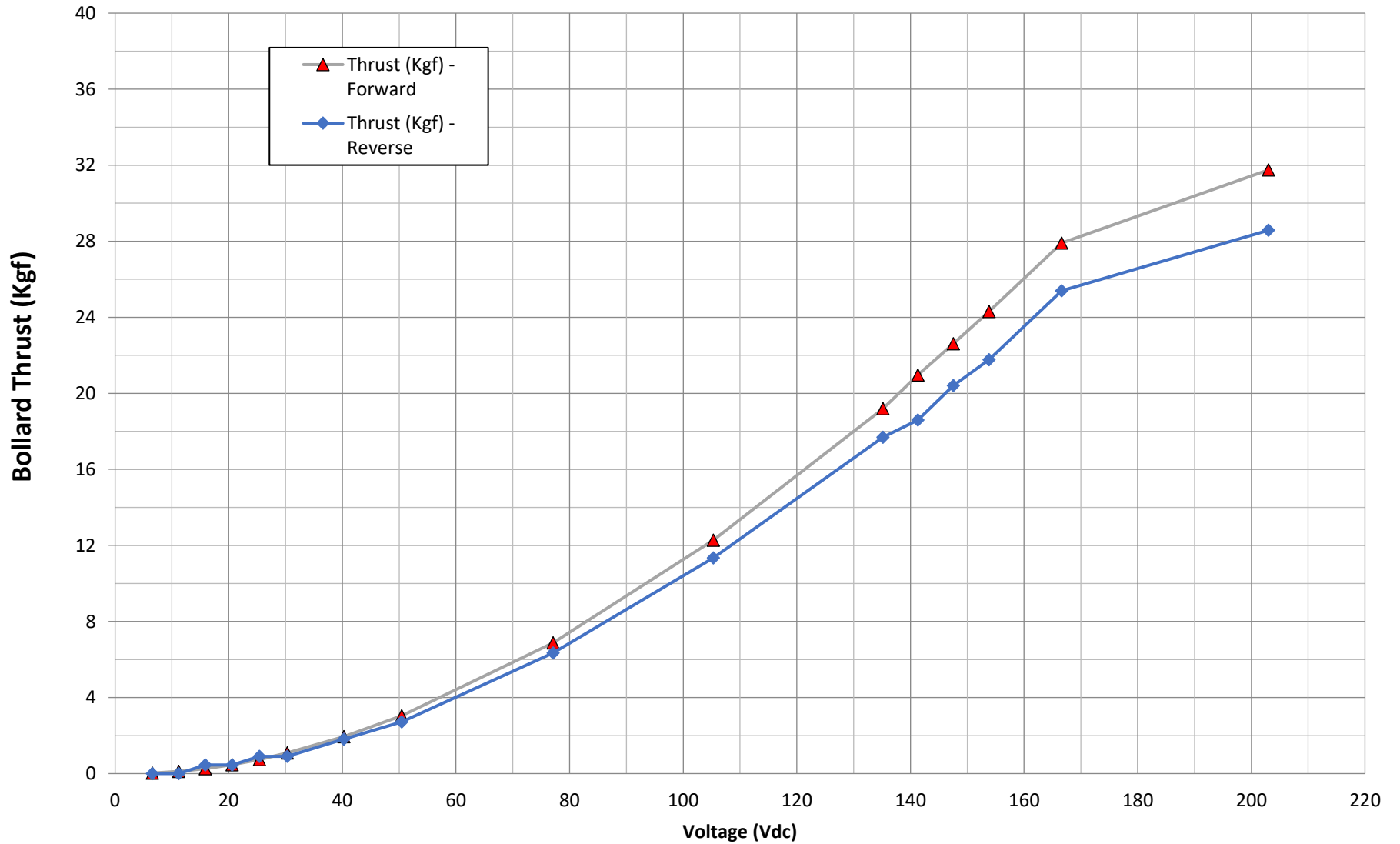
1004B-3300R Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



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



1004B-3300R Hexscreen Electric Thruster Thrust (Kgf) vs Voltage (Vdc)

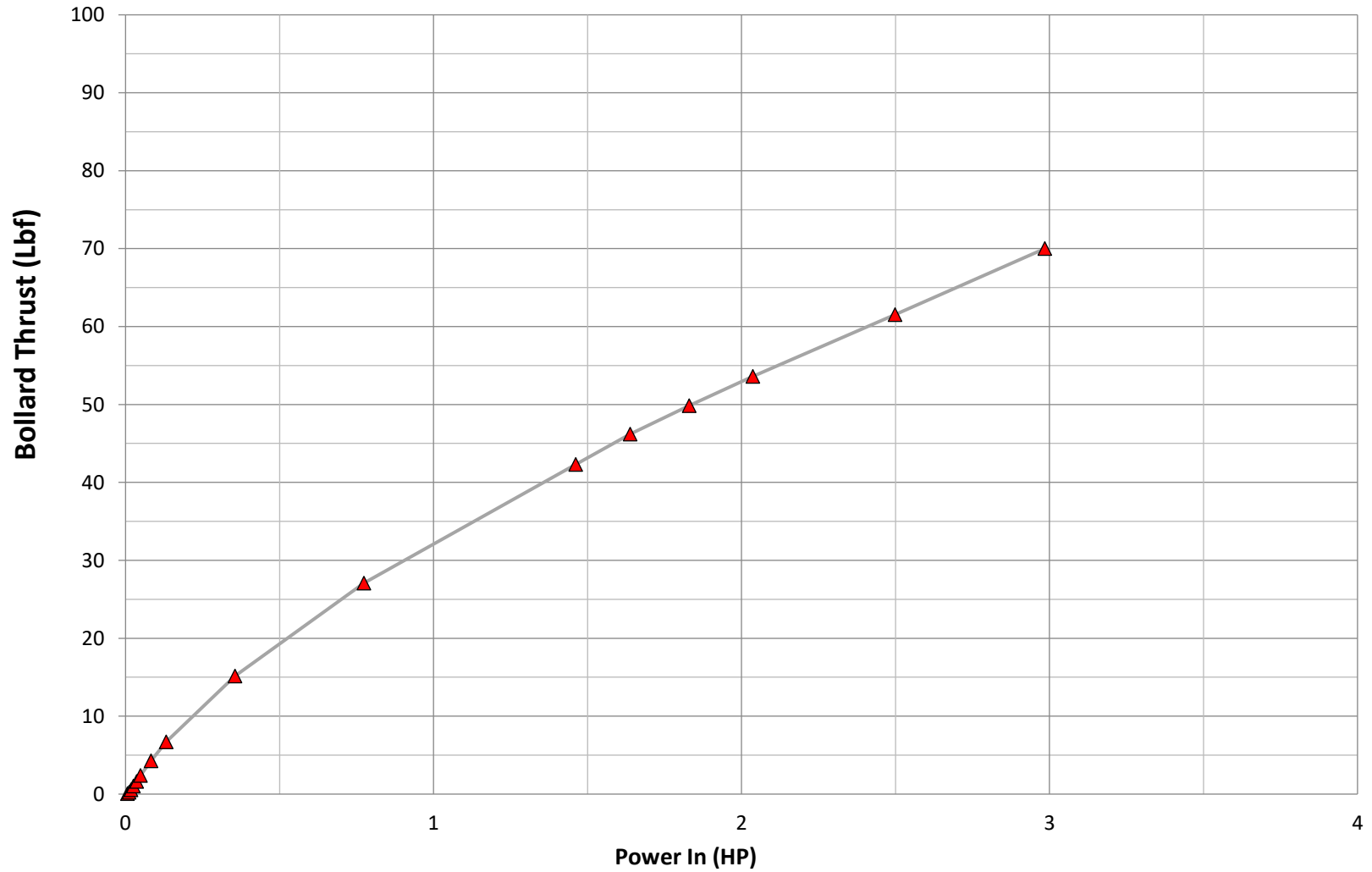


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1004B-3300R Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





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1004B-3300R Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)

