INNERSPACE CORPORATION
1138 E. EDNA PLACE, COVINA, CA 91724
TEL: (626) 331-0921 FAX: (626) 966-6391
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NOMINAL VOLTAGE: 300 VDC

1004B Hexscreen Electric Thruster with 3300R 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	6.6	0.7	0.1	0.0	0.1	0.0	0.00	4	5	0.0	79.1%
200	300	11.2	0.7	0.2	0.1	0.2	0.1	0.01	8	9	0.0	87.8%
300	300	15.9	0.7	0.6	0.3	0.5	0.2	0.02	12	13	0.0	91.0%
400	300	20.6	0.8	1.0	0.5	0.9	0.4	0.02	18	19	0.0	92.4%
500	300	25.4	0.9	1.6	0.7	1.4	0.7	0.03	25	27	0.0	93.2%
600	300	30.3	1.0	2.4	1.1	2.1	1.0	0.05	34	36	0.0	93.6%
800	300	40.3	1.3	4.3	1.9	3.8	1.7	0.08	58	61	0.1	93.8%
1000	300	50.5	1.7	6.7	3.0	5.9	2.7	0.12	92	99	0.1	93.7%
1500	300	77.1	3.0	15.2	6.9	13.3	6.0	0.33	245	265	0.4	92.6%
2000	300	105.3	4.8	27.1	12.3	23.8	10.8	0.71	526	577	0.8	91.2%
2500	300	135.2	7.2	42.3	19.2	37.2	16.9	1.31	978	1091	1.5	89.7%
2600	300	141.3	7.7	46.2	21.0	40.7	18.4	1.47	1093	1222	1.6	89.4%
2700	300	147.6	8.3	49.8	22.6	43.9	19.9	1.63	1216	1365	1.8	89.1%
2800	300	153.8	8.9	53.6	24.3	47.2	21.4	1.81	1349	1519	2.0	88.8%

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

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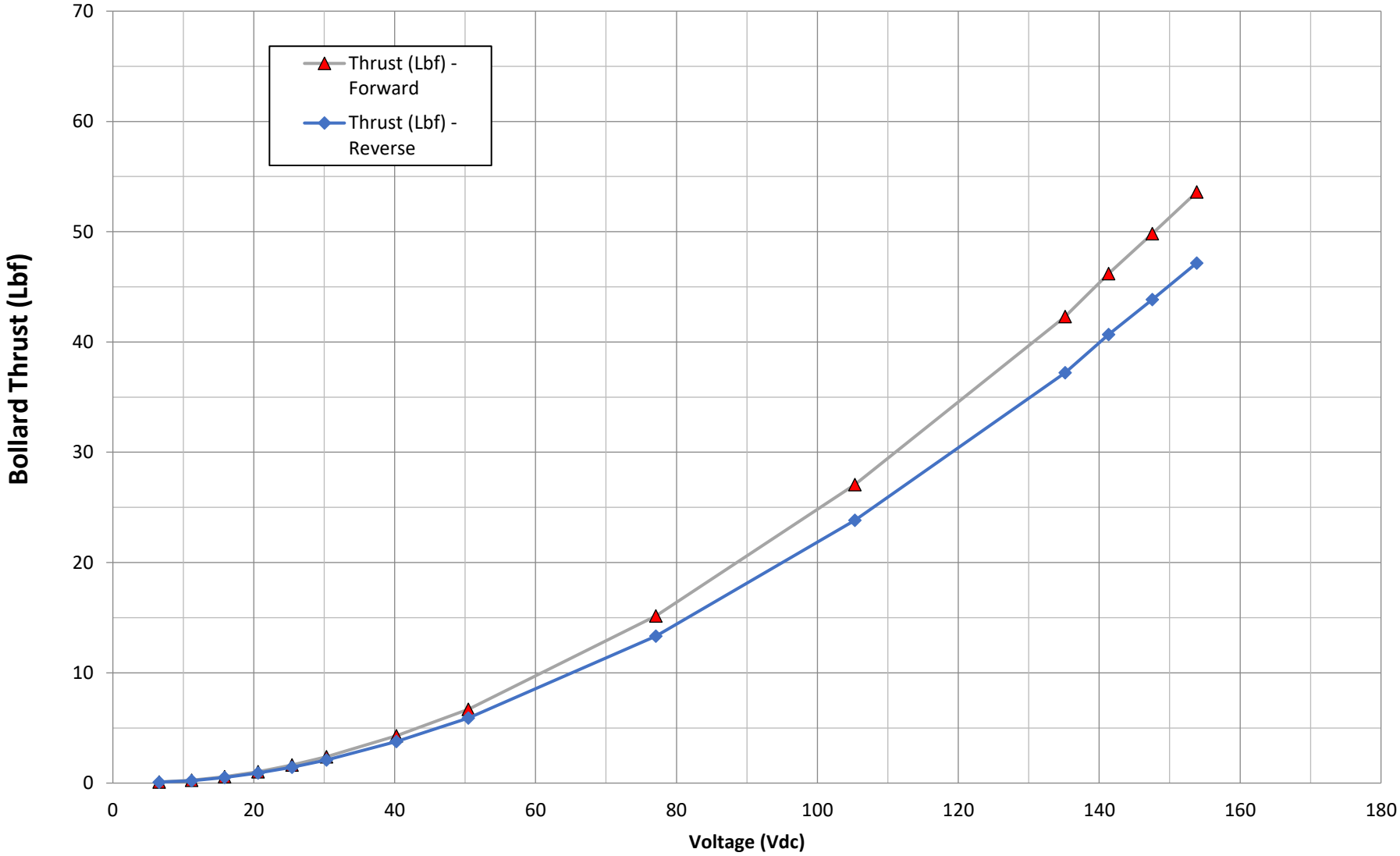
1004B-3300R Hexscreen Electric Thruster
Thrust (Lbf) vs Voltage (Vdc)



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

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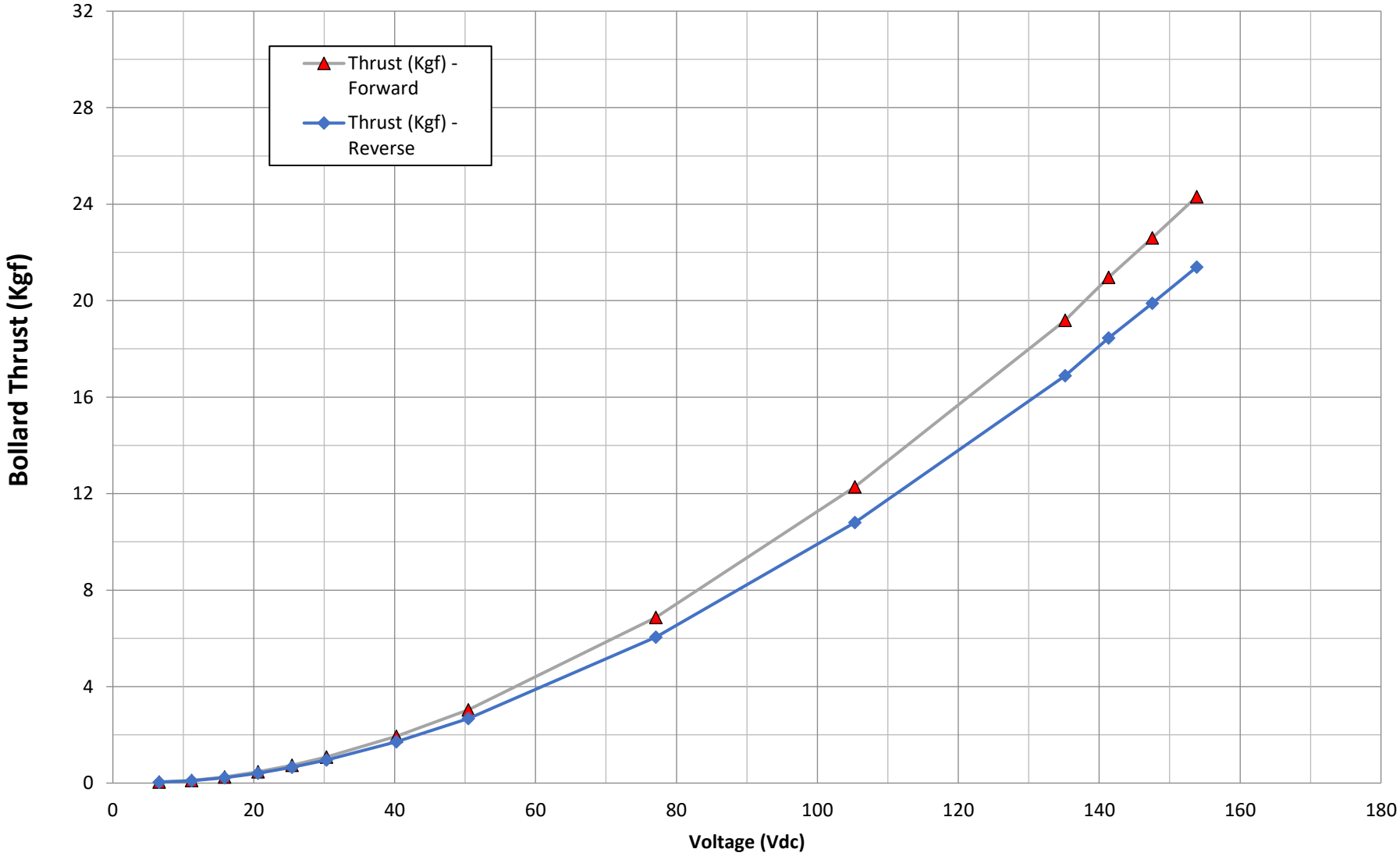

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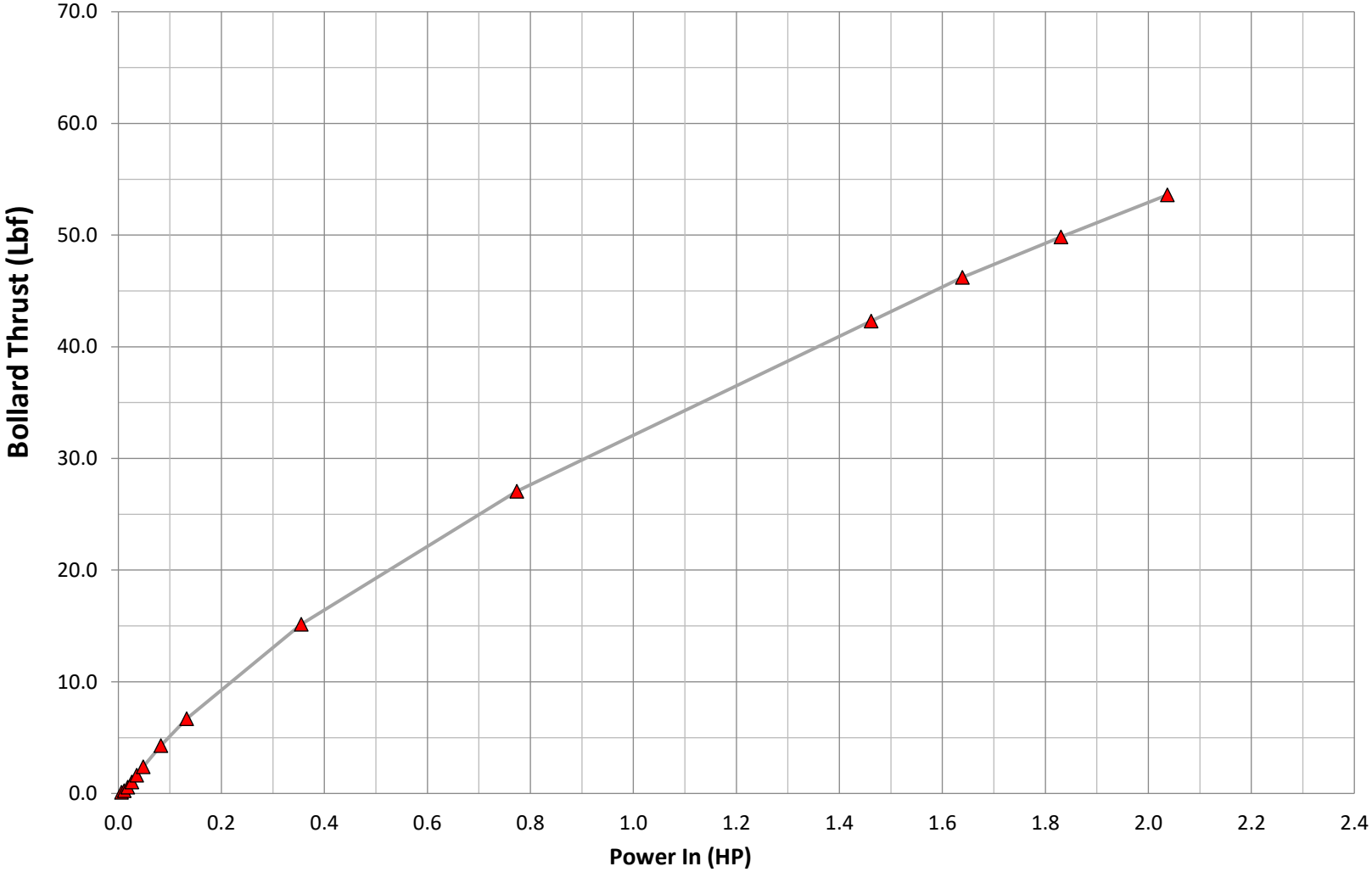
1004B-3300R Hexscreen Electric Thruster
Thrust (Lbf) vs Power In (HP)



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