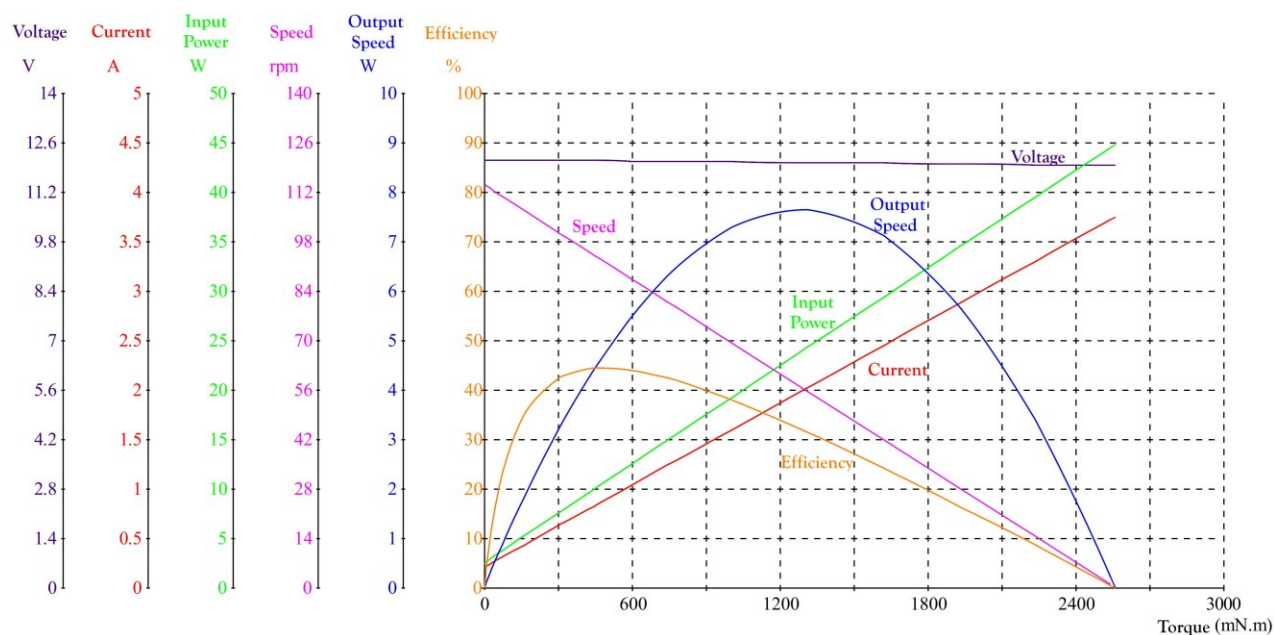


Orange HD Planetary Gear DC Motor Test Report

Voltage	12V
Type	PG28395126000-52.1K
Number	071



Specifications	Voltage	Current	Input Power	Torque	Speed	Output Power	Efficiency	Time
	V	A	W	mN.m	rpm	W	%	S
No Load	12.11	0.205	2.477	0.0	114.0	0.000	0.0	0.000
Max Efficiency Point	12.08	0.839	10.14	459.1	93.6	4.500	44.4	25.35
Max Output Power Point	12.03	2.021	24.30	1314.0	55.6	7.645	31.5	31.43
Maximum Torque Point	11.95	3.747	44.77	2562.9	0.0	0.000	0.0	0.000
End Point	11.95	3.747	44.77	2562.9	0.0	0.000	0.0	0.000

SN	Voltage	Current	Input Power	Torque	Speed	Output Power	Efficiency	Time
	V	A	W	mN.m	rpm	W	%	S
1	12.11	0.205	2.477	0.0	114.0	0.000	0.0	0.000
2	12.11	0.212	2.564	5.2	113.8	0.062	2.4	0.000
3	12.11	0.212	2.562	5.1	113.8	0.061	2.4	2.028
4	12.11	0.212	2.564	5.2	113.8	0.062	2.4	3.042
5	12.11	0.212	2.564	5.2	113.8	0.062	2.4	4.056
6	12.11	0.212	2.564	5.2	113.8	0.062	2.4	5.070
7	12.11	0.212	2.566	5.3	113.8	0.063	2.5	6.084
8	12.11	0.212	2.569	5.5	113.8	0.066	2.6	7.098

9	12.11	0.212	2.567	5.4	113.8	0.064	2.5	8.112
10	12.11	0.212	2.572	5.7	113.8	0.068	2.6	9.126
11	12.11	0.216	2.612	8.1	113.7	0.096	3.7	10.14
12	12.11	0.222	2.683	12.3	113.5	0.146	5.4	11.15
13	12.11	0.235	2.840	21.7	113.1	0.257	9.0	12.17
14	12.11	0.244	2.959	28.8	112.8	0.340	11.5	13.18
15	12.11	0.279	3.382	54.1	111.6	0.632	18.7	14.20
16	12.11	0.304	3.684	72.2	110.8	0.838	22.7	15.21
17	12.10	0.340	4.117	98.1	109.7	1.126	27.4	16.22
18	12.10	0.384	4.643	129.6	108.3	1.469	31.6	17.24
19	12.10	0.435	5.259	166.5	106.6	1.859	35.3	18.25
20	12.10	0.479	5.795	198.6	105.2	2.188	37.7	19.27
21	12.10	0.534	6.456	238.2	103.4	2.580	40.0	20.28
22	12.09	0.638	7.712	313.5	100.1	3.285	42.6	21.29
23	12.09	0.699	8.453	358.0	98.1	3.677	43.5	22.31
24	12.08	0.763	9.216	403.8	96.1	4.062	44.1	23.32
25	12.08	0.822	9.937	447.1	94.1	4.407	44.3	24.34
26	12.08	0.839	10.14	459.1	93.6	4.500	44.4	25.35
27	12.08	0.962	11.61	547.7	89.7	5.142	44.3	26.36
28	12.07	1.031	12.44	597.7	87.4	5.472	44.0	27.38
29	12.07	1.091	13.17	641.4	85.5	5.742	43.6	28.39
30	12.07	1.165	14.06	694.8	83.1	6.047	43.0	29.41
31	12.06	1.238	14.94	747.9	80.8	6.324	42.3	30.42
32	12.06	1.312	15.82	801.2	78.4	6.576	41.6	31.43
33	12.05	1.454	17.52	903.8	73.8	6.986	39.9	31.43
34	12.05	1.595	19.22	1006.3	69.3	7.298	38.0	31.43
35	12.04	1.737	20.92	1108.9	64.7	7.512	35.9	31.43
36	12.03	1.879	22.61	1211.5	60.1	7.627	33.7	31.43
37	12.03	2.021	24.30	1314.0	55.6	7.645	31.5	31.43
38	12.02	2.162	25.99	1416.6	51.0	7.565	29.1	31.43
39	12.01	2.304	27.68	1519.2	46.4	7.387	26.7	31.43
40	12.01	2.446	29.37	1621.7	41.9	7.111	24.2	31.43
41	12.00	2.588	31.06	1724.3	37.3	6.737	21.7	31.43
42	12.00	2.729	32.74	1826.9	32.8	6.264	19.1	31.43
43	11.99	2.871	34.42	1929.4	28.2	5.694	16.5	31.43
44	11.98	3.013	36.10	2032.0	23.6	5.026	13.9	31.43
45	11.98	3.155	37.78	2134.6	19.1	4.259	11.3	31.43
46	11.97	3.296	39.46	2237.1	14.5	3.395	8.6	31.43
47	11.96	3.438	41.13	2339.7	9.9	2.433	5.9	31.43
48	11.96	3.580	42.80	2442.3	5.4	1.372	3.2	31.43
49	11.95	3.722	44.48	2544.8	0.8	0.214	0.5	31.43
50	11.95	3.747	44.77	2562.9	0.0	0.000	0.0	0.000