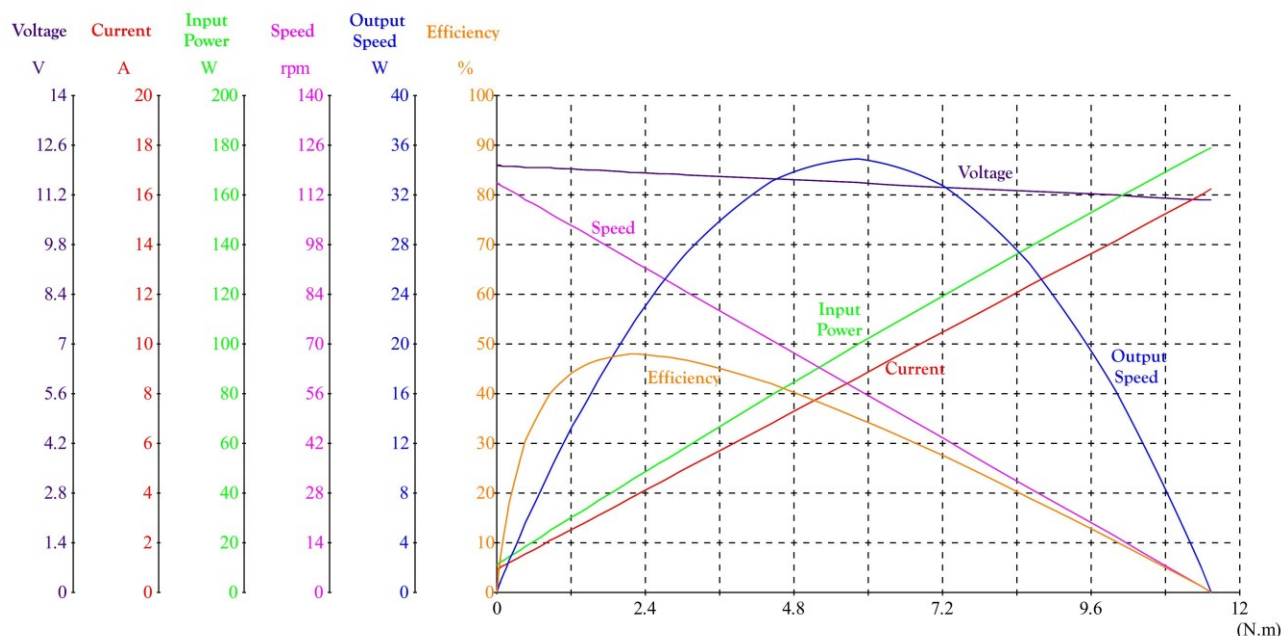


## Orange HD Planetary Gear DC Motor Test Report

Voltage	12V
Type	PG45775126000-50.9K
Number	



Specifications	Voltage	Current	Input Power	Torque	Speed	Output Power	Efficiency	Time
	V	A	W	N.m	rpm	W	%	S
No Load	12.01	0.891	10.70	0.000	115.4	0.000	0.0	0.000
Max Efficiency Point	11.81	4.002	47.28	2.346	91.9	22.58	47.8	29.41
Max Output Power Point	11.52	8.638	99.51	5.842	57.0	34.87	35.0	33.46
Maximum Torque Point	11.04	16.21	178.9	11.550	0.0	0.000	0.0	0.000
End Point	11.04	16.21	178.9	11.550	0.0	0.000	0.0	0.000

SN	Voltage	Current	Input Power	Torque	Speed	Output Power	Efficiency	Time
	V	A	W	N.m	rpm	W	%	S
1	12.01	0.891	10.70	0.000	115.4	0.000	0.0	0.000
2	12.00	0.985	11.83	0.071	114.6	0.852	7.2	0.000
3	12.00	0.985	11.83	0.071	114.6	0.852	7.2	2.028
4	12.01	0.973	11.68	0.062	114.7	0.745	6.4	3.042
5	12.01	0.963	11.56	0.054	114.8	0.649	5.6	4.056
6	12.01	0.931	11.18	0.030	115.1	0.361	3.2	5.070
7	12.01	0.937	11.26	0.035	115.0	0.421	3.7	6.084

8	12.01	0.933	11.21	0.032	115.0	0.385	3.4	7.098
9	12.00	1.012	12.14	0.091	114.4	1.090	9.0	8.112
10	12.00	1.058	12.70	0.126	114.1	1.505	11.9	9.126
11	12.00	1.087	13.04	0.148	113.9	1.765	13.5	10.14
12	12.00	1.108	13.30	0.164	113.7	1.953	14.7	11.15
13	11.99	1.171	14.04	0.211	113.3	2.502	17.8	12.17
14	11.99	1.268	15.19	0.284	112.5	3.346	22.0	13.18
15	11.98	1.375	16.47	0.365	111.7	4.269	25.9	14.20
16	11.97	1.525	18.25	0.478	110.6	5.534	30.3	15.21
17	11.96	1.692	20.23	0.604	109.3	6.914	34.2	16.22
18	11.95	1.879	22.45	0.745	107.9	8.418	37.5	17.24
19	11.94	2.054	24.52	0.877	106.6	9.788	39.9	18.25
20	11.93	2.189	26.11	0.979	105.6	10.82	41.4	19.27
21	11.92	2.361	28.14	1.109	104.3	12.11	43.0	20.28
22	11.91	2.529	30.11	1.235	103.0	13.32	44.2	21.29
23	11.89	2.722	32.38	1.381	101.6	14.69	45.4	22.31
24	11.88	2.883	34.26	1.502	100.4	15.78	46.1	23.32
25	11.87	3.075	36.51	1.647	98.9	17.06	46.7	24.34
26	11.85	3.392	40.20	1.886	96.5	19.06	47.4	25.35
27	11.84	3.573	42.31	2.023	95.2	20.15	47.6	26.36
28	11.83	3.764	44.53	2.167	93.7	21.26	47.8	27.38
29	11.82	3.935	46.51	2.296	92.4	22.22	47.8	28.39
30	11.81	4.002	47.28	2.346	91.9	22.58	47.8	29.41
31	11.79	4.377	51.60	2.629	89.1	24.53	47.5	30.42
32	11.78	4.585	54.00	2.786	87.5	25.53	47.3	31.43
33	11.77	4.754	55.93	2.913	86.3	26.31	47.0	32.45
34	11.75	4.960	58.30	3.069	84.7	27.22	46.7	33.46
35	11.71	5.573	65.29	3.531	80.1	29.61	45.4	33.46
36	11.68	6.186	72.23	3.993	75.5	31.56	43.7	33.46
37	11.64	6.799	79.12	4.456	70.9	33.05	41.8	33.46
38	11.60	7.412	85.96	4.918	66.2	34.11	39.7	33.46
39	11.56	8.025	92.76	5.380	61.6	34.71	37.4	33.46
40	11.52	8.638	99.51	5.842	57.0	34.87	35.0	33.46
41	11.48	9.251	106.2	6.305	52.4	34.58	32.6	33.46
42	11.44	9.864	112.9	6.767	47.8	33.85	30.0	33.46
43	11.40	10.48	119.5	7.229	43.2	32.66	27.3	33.46
44	11.37	11.09	126.0	7.691	38.5	31.03	24.6	33.46
45	11.33	11.70	132.5	8.153	33.9	28.96	21.8	33.46
46	11.29	12.32	139.0	8.616	29.3	26.44	19.0	33.46
47	11.25	12.93	145.4	9.078	24.7	23.47	16.1	33.46
48	11.21	13.54	151.8	9.540	20.1	20.05	13.2	33.46
49	11.17	14.15	158.1	10.002	15.5	16.19	10.2	33.46
50	11.13	14.77	164.4	10.465	10.8	11.88	7.2	33.46
51	11.09	15.38	170.6	10.927	6.2	7.118	4.2	33.46
52	11.06	15.99	176.8	11.389	1.6	1.915	1.1	33.46
53	11.04	16.21	178.9	11.550	0.0	0.000	0.0	0.000