

## Product Features

Application : - 2-Wheeler

Motor Type : - Hub Motor

## Motor Specifications

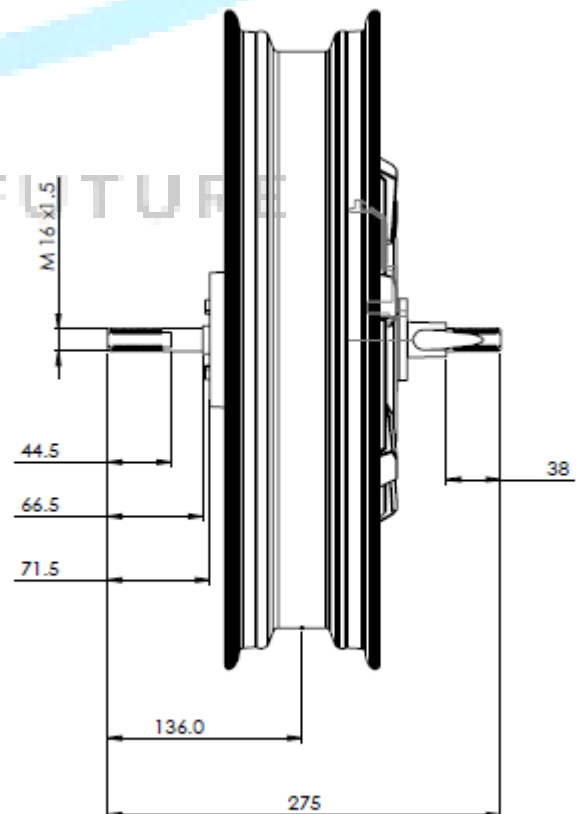
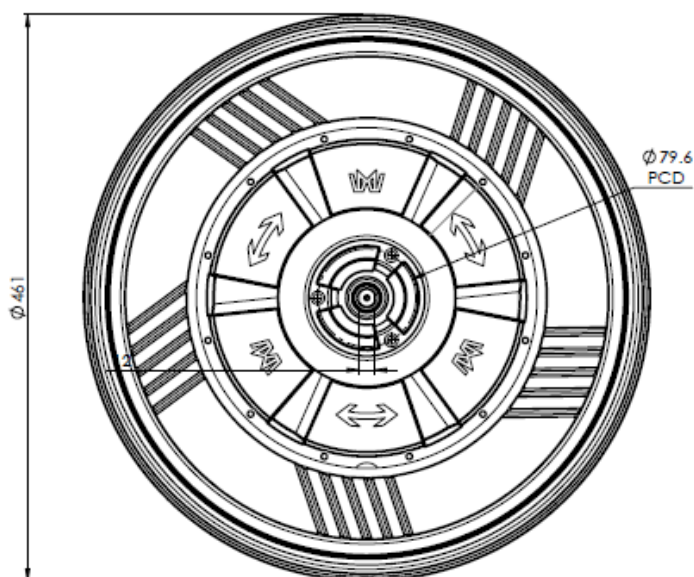
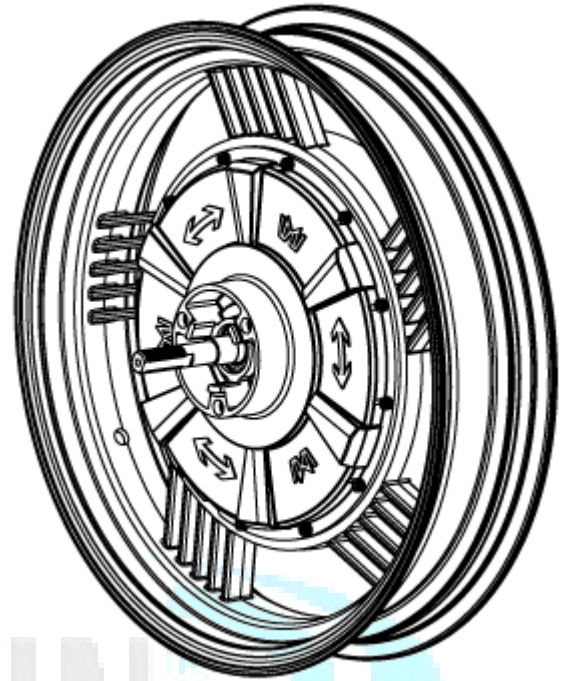
Outer Diameter : - 461 mm

Shaft Length : - 275 mm

Brake type :- Disc Brake

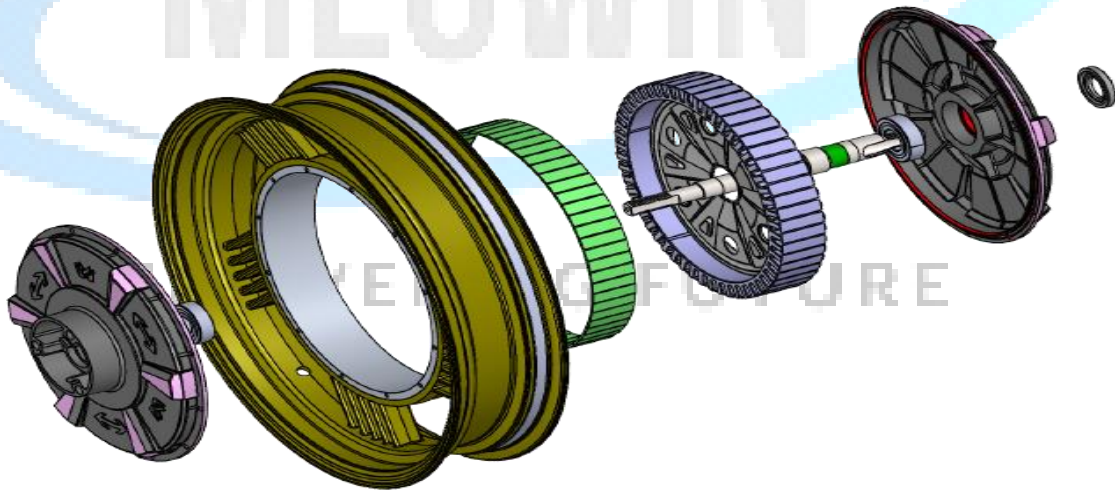
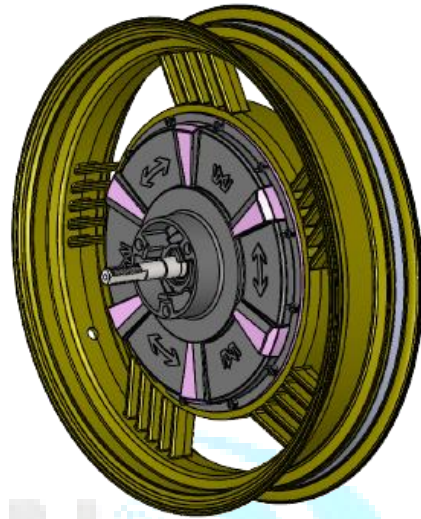
Swing arm Distance :-192.5mm

IP Level :- IP67



## Motor Specification

Operating Voltage	72	V
Rated Power	3.7	kW
Peak Power	2.8	kW
Rated Torque	30	Nm
Peak Torque@ 100RPM	114	Nm
Max DC Current	60	A
Max Speed	804	Rpm

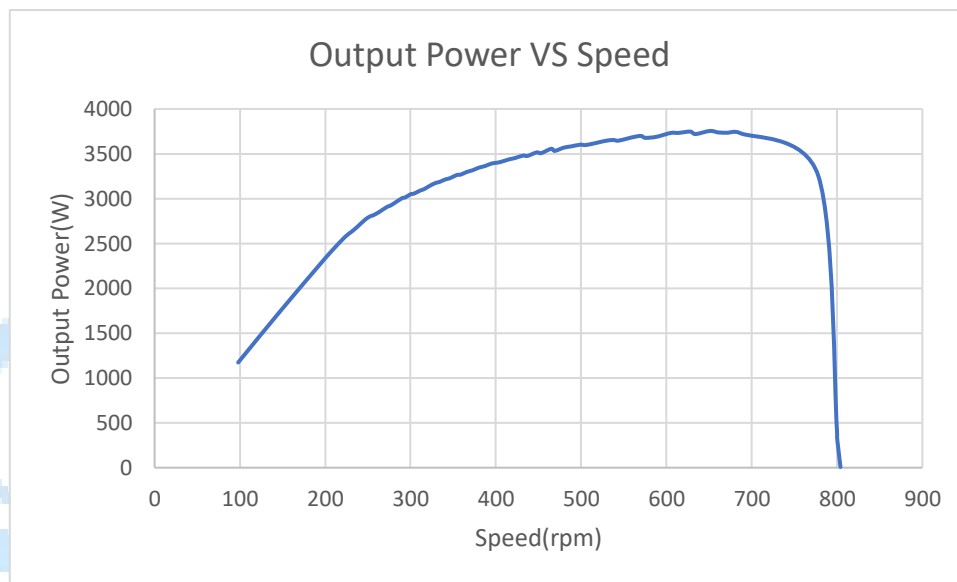


## Performance Details

Parameters	DC Voltage	DC Current	RMS Line to Line Voltage	RMS Line Current	Input Power	Torque	Speed	Output power	System Efficiency
	V	A	V	A	W	Nm	RPM	W	%
No Load	72	2.64	49.48	3.40	188.56	0.1	804	8.15	4.32
Max Torque	72	44.03	17.26	113.17	3135.98	112.9	145.25	1718.58	54.82
Max Input Power	72	59.28	45.45	57.71	4224.5	56.0	634.4	3720.26	88.08
Max Output Power	72	59.13	45.12	58.35	4222.08	57.0	627.52	3747.57	88.76
Max Efficiency	72	47.11	53.07	37.93	3363.08	36.9	781.89	3025.17	89.95

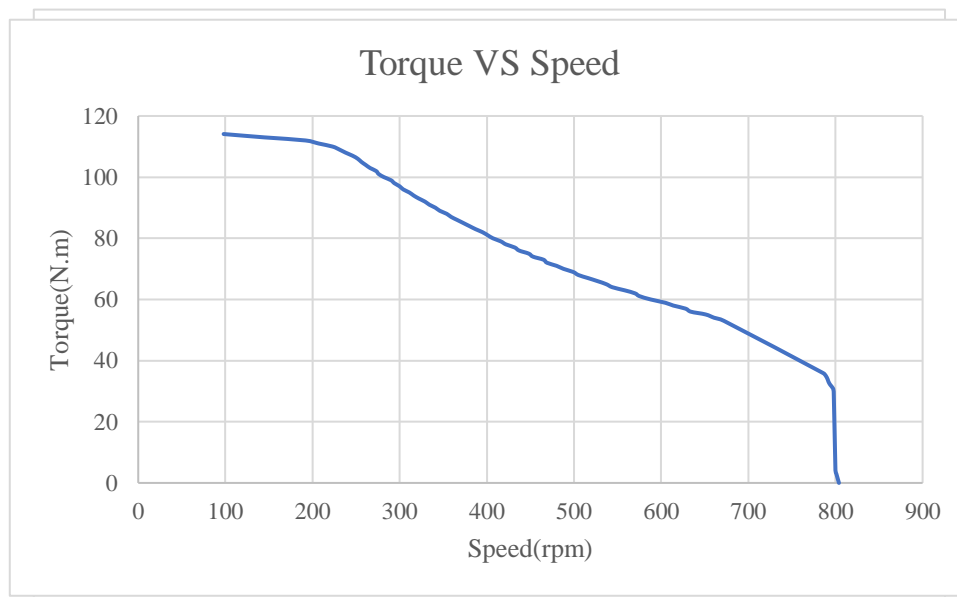
## Performance Curves

### Output Power Vs Speed

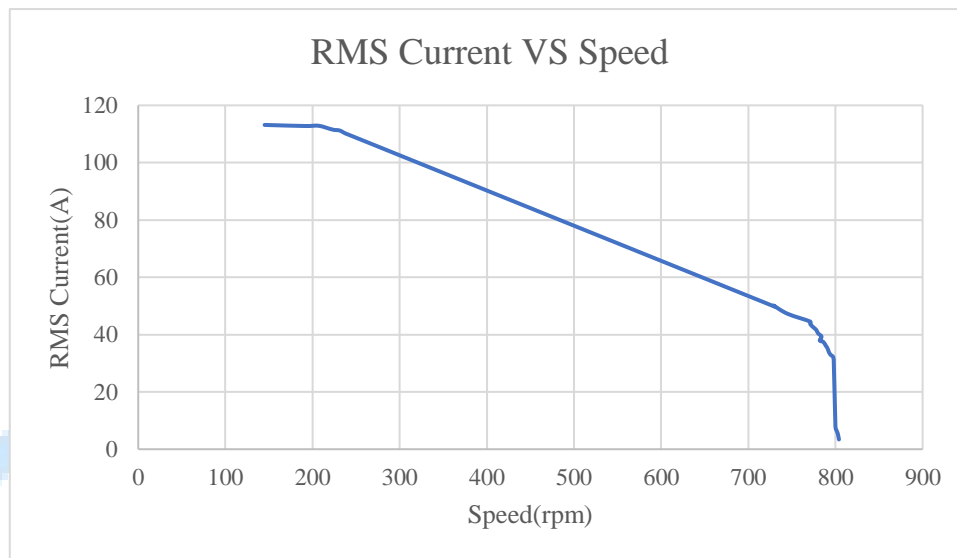


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### Torque Vs Speed

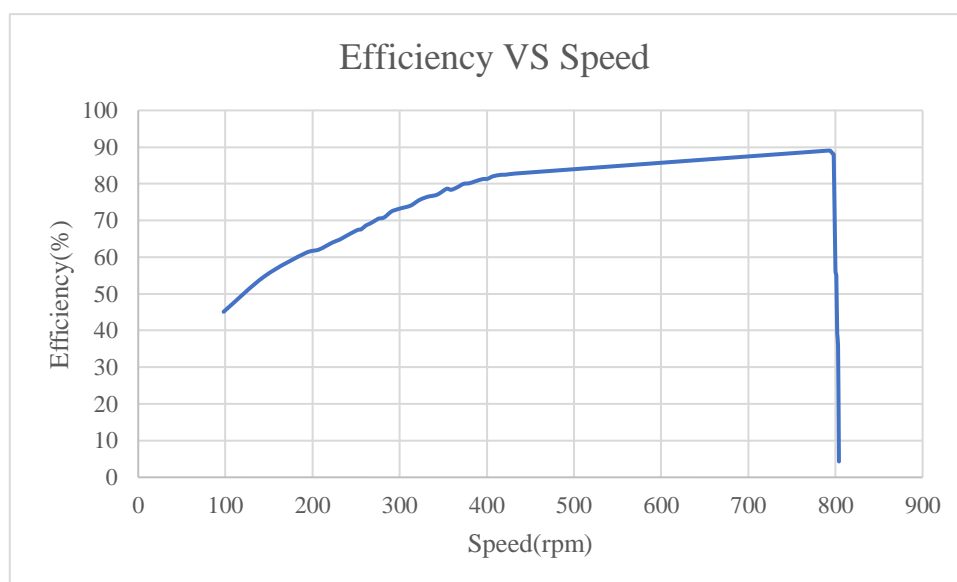


## Current Vs Speed



## Efficiency Vs Speed

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## Load Test Data

DC Voltage	DC Current	RMS line to line Voltage	RMS line Current	Input Power	Torque	Speed	Output Power	System Efficiency
V	A	V	A	W	N-m	rpm	W	%
72	2.64	49.48	3.40	188.56	0.1	804	8.15	4.32
72	3.40	49.52	5.02	242.08	1.0	804	86.84	35.87
72	6.10	49.71	6.00	434.28	2.0	803	170.45	39.25
72	6.41	49.84	6.70	457.00	3.0	803	251.05	54.94
72	8.51	50.04	7.77	605.65	4.1	802	341.37	56.36
72	9.36	50.19	8.10	666.47	4.8	802	404.37	60.67
72	27.50	51.81	22.18	1958.63	20.0	800	1683.19	85.94
72	30.39	52.19	24.26	2165.84	23.0	800	1933.87	89.29
72	32.15	52.33	25.48	2294.72	24.0	800	2012.42	87.70
72	32.92	52.57	26.41	2344.77	25.0	800	2096.42	89.41
72	34.71	52.74	27.73	2471.62	26.0	800	2181.23	88.25
72	35.95	52.88	28.47	2563.70	27.1	799	2277.08	88.82
72	36.77	53.00	29.03	2619.56	28.0	799	2351.82	89.78
72	38.51	53.09	30.08	2750.39	29.1	798	2437.63	88.63
72	39.88	53.07	31.33	2840.17	29.9	798	2499.41	88.00
72	41.12	53.09	32.34	2929.60	31.0	797	2582.90	88.17
72	41.92	53.08	33.10	2993.48	32.1	794	2664.92	89.02
72	43.22	53.08	34.25	3079.22	33.1	792	2742.17	89.05
72	44.37	53.07	35.12	3162.60	33.9	791	2808.26	88.80
72	45.44	53.05	36.11	3243.69	35.0	789	2894.93	89.25
72	46.72	53.07	37.46	3328.04	35.9	786	2955.08	88.79
72	47.11	53.07	37.93	3363.08	37.0	782	3025.17	89.95
72	48.72	53.06	39.31	3473.57	38.1	784	3123.45	89.92
72	50.16	53.05	40.47	3573.21	39.1	780	3190.02	89.28
72	51.46	53.04	41.63	3668.88	40.0	778	3254.47	88.70
72	52.53	53.07	42.46	3741.57	41.0	775	3328.15	88.95
72	53.49	52.99	43.69	3819.51	42.0	771	3391.54	88.80
72	54.78	53.06	44.55	3906.94	43.0	771	3467.98	88.76
72	51.70	50.88	47.27	3683.67	43.9	745	3423.55	92.94
72	53.93	50.34	50.15	3850.39	45.0	729	3433.72	89.18
72	53.40	50.17	49.79	3811.74	46.0	730	3512.80	92.16
72	52.79	47.97	53.75	3766.38	47.0	698	3439.83	91.33
72	55.38	48.14	54.67	3955.33	48.1	695	3496.41	88.40
72	56.38	48.34	54.56	4016.10	48.9	695	3559.49	88.63
72	58.36	49.28	53.10	4167.16	50.0	704	3684.47	88.42
72	58.70	49.03	53.38	4189.18	51.0	697	3718.47	88.76
72	58.82	48.28	54.14	4191.76	52.0	686	3732.53	89.04

72	59.07	47.74	55.26	4209.20	53.0	672	3734.46	88.72
72	58.98	47.00	55.97	4209.50	54.0	661	3738.11	88.80
72	58.96	46.49	56.88	4203.66	55.1	651	3754.84	89.32
72	59.28	45.45	57.71	4224.50	56.0	634	3720.26	88.06
72	59.13	45.10	58.35	4222.08	57.0	628	3747.57	88.76
72	58.98	44.32	59.41	4201.07	58.0	614	3733.22	88.86
72	58.95	43.88	59.96	4203.25	58.9	605	3732.39	88.80
72	58.79	42.85	61.36	4190.50	60.0	588	3689.13	88.04
72	59.02	42.29	62.29	4204.91	61.1	575	3678.23	87.47
72	59.12	41.94	62.90	4211.66	62.0	570	3699.53	87.84
72	58.80	41.24	63.96	4191.48	63.0	558	3679.85	87.79
72	59.02	40.46	65.23	4205.45	64.0	544	3646.48	86.71
72	58.78	40.04	65.70	4197.81	65.0	537	3654.18	87.05
72	58.83	39.53	66.83	4190.73	66.0	527	3641.73	86.90
72	58.79	38.93	68.05	4197.04	67.0	516	3617.56	86.19
72	58.64	38.36	69.05	4183.87	68.0	505	3597.39	85.98
72	58.84	37.94	69.79	4191.83	69.0	499	3601.82	85.92
72	58.85	37.33	70.87	4192.13	70.0	488	3581.88	85.44
72	58.60	36.95	71.86	4184.99	71.0	480	3569.61	85.30
72	58.79	36.38	73.10	4197.81	72.0	469	3532.37	84.15
72	58.72	36.06	73.89	4182.12	73.0	465	3556.20	85.03
72	58.91	35.44	75.21	4197.91	74.0	453	3507.21	83.55
72	58.36	35.11	75.95	4167.07	75.0	448	3515.61	84.37
72	58.56	34.54	77.10	4181.54	76.0	437	3476.46	83.14
72	59.01	34.21	77.99	4204.18	77.0	432	3480.20	82.78
72	58.75	33.70	79.20	4184.98	78.0	422	3451.36	82.47
72	58.46	33.33	80.14	4171.75	79.0	416	3439.35	82.44
72	58.18	32.94	81.18	4160.49	80.0	407	3412.78	82.03
72	58.66	32.65	82.18	4177.75	81.0	401	3399.90	81.38
72	58.42	32.30	82.99	4173.97	82.0	395	3391.72	81.26
72	58.49	31.78	84.41	4167.31	83.0	387	3362.66	80.69
72	58.58	31.38	85.07	4173.87	84.0	380	3345.42	80.15
72	58.12	31.07	86.51	4149.35	85.0	373	3317.21	79.95
72	58.57	30.72	87.61	4172.78	86.0	366	3297.84	79.03
72	58.37	30.33	88.68	4171.48	87.0	359	3268.81	78.36
72	58.13	30.03	89.75	4148.90	88.0	354	3262.66	78.64
72	58.51	29.69	90.85	4168.01	89.0	346	3226.80	77.42
72	58.54	29.33	91.74	4183.29	90.0	341	3215.15	76.86
72	58.44	29.04	92.95	4161.13	91.0	334	3186.07	76.57
72	58.45	28.70	93.95	4164.69	92.0	329	3173.70	76.21
72	58.39	28.37	95.21	4158.62	93.0	322	3140.20	75.51
72	58.50	28.01	96.36	4168.66	94.0	316	3106.37	74.52
72	58.54	27.75	97.26	4180.03	95.0	311	3088.97	73.90



72	58.39	27.41	98.46	4160.10	96.0	304	3056.30	73.47
72	58.45	27.10	99.19	4163.72	97.0	300	3048.72	73.22
72	57.94	26.81	100.36	4142.51	98.0	294	3014.83	72.78
72	58.29	26.53	101.40	4152.04	99.0	290	3004.43	72.36
72	58.55	26.17	102.55	4173.91	100.0	282	2955.73	70.81
72	58.14	25.83	103.53	4141.22	101.0	276	2920.21	70.52
72	58.27	25.61	104.41	4150.95	102.0	273	2910.83	70.12
72	58.16	25.30	105.38	4147.46	103.0	266	2868.20	69.16
72	58.08	24.95	106.59	4138.24	104.0	261	2838.29	68.59
72	58.42	24.77	107.43	4160.93	105.0	256	2813.65	67.62
72	58.27	24.53	108.19	4151.74	106.0	252	2799.55	67.43
72	58.04	24.21	109.20	4134.59	107.0	246	2759.17	66.73
72	57.28	23.72	110.16	4092.44	108.0	238	2688.79	65.70
72	56.94	23.29	111.23	4063.47	109.0	231	2631.93	64.77
72	56.39	22.86	111.54	4017.69	110.0	223	2571.13	64.00
72	54.58	21.84	112.88	3885.77	111.0	207	2410.19	62.03
72	51.53	20.60	112.79	3675.49	112.0	192	2246.65	61.13
72	44.03	17.26	113.17	3135.98	113.0	145	1718.58	54.80
72	36.54	13.56	110.38	2599.91	114.1	98	1173.15	45.12

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