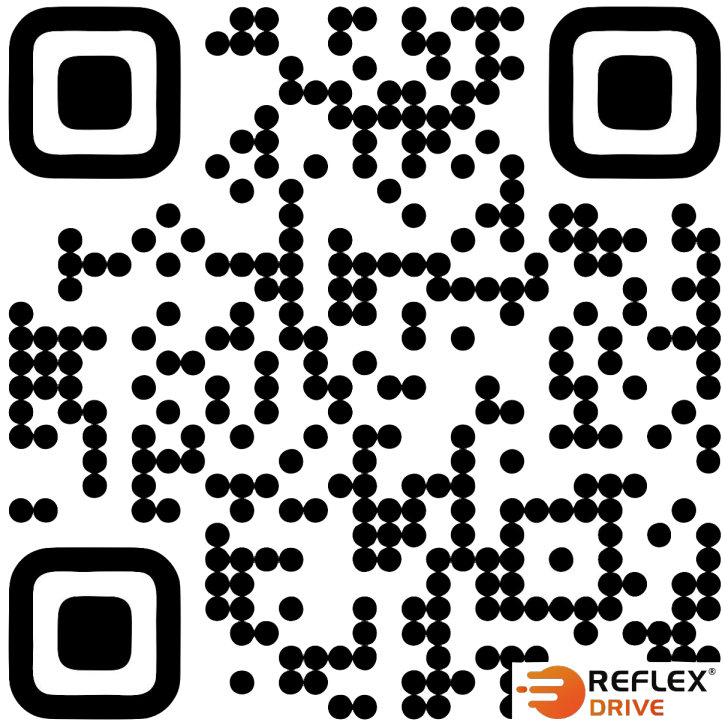




MADE IN INDIA 



RD 8015

UAV BLDC MOTOR



Specifications

Product name	RD 8015 UAV BLDC MOTOR
Country of Origin	India
Motor Type	Outrunner
KV Rating	115 KV
Maximum Thrust	14 kg
Stator Poles / Magnet Poles	36/42
No load Current	1.04 A@24V
Motor Efficiency	93.57 %
Weight (Incl. Wire)	509 grams
Voltage	48 V
Peak Current	46.58A
Motor Size	Ø89.50 mm x 38.50 mm
Stator Size	Ø81 mm x 15 mm
Cable Length	100 mm
Cable Type	14 AWG
Magnet Temperature Rating	150 °C
Shaft Diameter (Internal)	Ø13.5 mm
Winding Material	100% Copper
IP Rating	Ip34
Maximum Operating Temperature	60 °C
Recommended Propeller	HW3011(NEW)
Production Status	Production

Note : MAXIMUM THRUST MAY DEPEND ON BATTERY LEVEL , PROPELLER TYPE , AIR PRESSURE AND OTHER CONDITIONS.



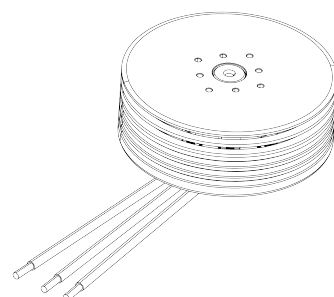
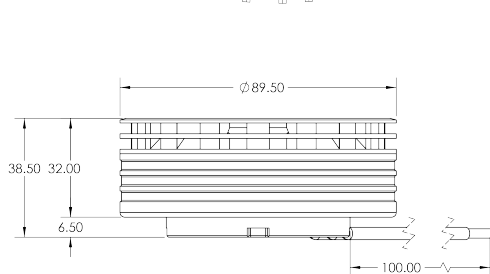
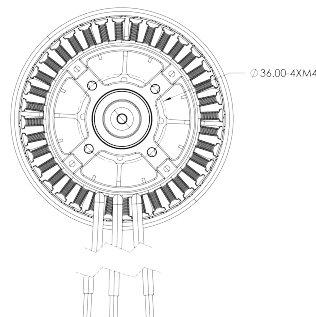
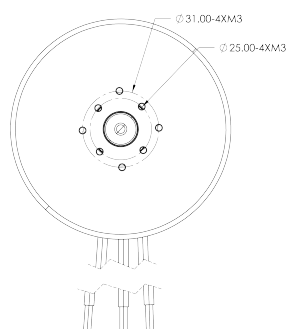
RD 8015

UAV BLDC MOTOR

- RD 8015 Motor is a brushless Outrunner motor with a KV rating of 115KV, designed and Manufactured in India to operate within a voltage range of 12S.
- It can handle a continuous current of 80A and can generate a peak power output of 4 KW.

PRODUCT DRAWING

Note: All dimensions in mm



MOTOR : RD 8015 115KV
ESC : RD FOC 80A_V4.2
Propeller : HW3011 (NEW)
Power Source : 48V (SMPS)

Throttle %	Servo (1050-1950)	Power (W)	Current (A)	RPM	Thrust (g)	Efficiency (g/w)	Temperature Heat Sink	Temperature Motor Coil(°C)	Max temperature (°C)
	1050	0.00	0.00	0	0	0.00	32.40	33.3°C	Max temperature after turn off the Power supply Heat sink:41°C Motor:66.7°C
0.00	1100	7.70	0.14	498	163	21.17	32.40°C	33.3°C	
6.30	1150	7.80	0.15	498	166	21.28	32.40°C	33.3°C	
12.50	1200	9.50	0.18	576	219	23.05	32.40°C	33.3°C	
18.80	1250	22.90	0.44	810	478	20.87	32.50°C	33.4°C	
25.00	1300	46.70	0.89	1050	838	17.94	32.50°C	33.5°C	
31.30	1350	80.80	1.55	1284	1348	16.68	32.60°C	33.5°C	
37.50	1400	129.70	2.49	1530	1963	15.13	32.60°C	33.7°C	
43.80	1450	196.00	3.77	1752	2702	13.79	32.70°C	34.0°C	
50.00	1500	206.00	5.53	1992	3485	16.92	32.80°C	34.5°C	
56.30	1550	392.00	7.60	2232	4426	11.29	32.80°C	35.0°C	
62.50	1600	533.00	10.37	2460	5447	10.22	32.90°C	35.6°C	
68.80	1650	727.00	14.19	2700	6648	9.14	32.90°C	36.4°C	
75.00	1700	926.00	18.16	2934	7707	8.32	33.0°C	37.6°C	
81.30	1750	1177.00	23.34	3124	9127	7.75	33.20°C	39.2°C	
87.50	1800	1481.00	29.46	3414	10595	7.15	33.40°C	40.5°C	
93.80	1500	1857.00	37.16	3642	12147	6.54	33.60°C	43.7°C	
100.00	1900	2343.00	47.53	3872	13934	5.95	33.70°C	47.1°C	
	1950	2408.00	48.99	3912	14203	5.90	33.90°C	53.0°C	

NOTE : Performance data tested at approximately 35°C and 123m above sea level in Lucknow, India.

Test Condition Notes :

- > Ambient Temperature : Approximately 35°C.
- > Altitude: 123 meters above sea level (Lucknow, India)

