REFLEX® DRIVE

MADE IN INDIA

FPV SERIES





RD 4006

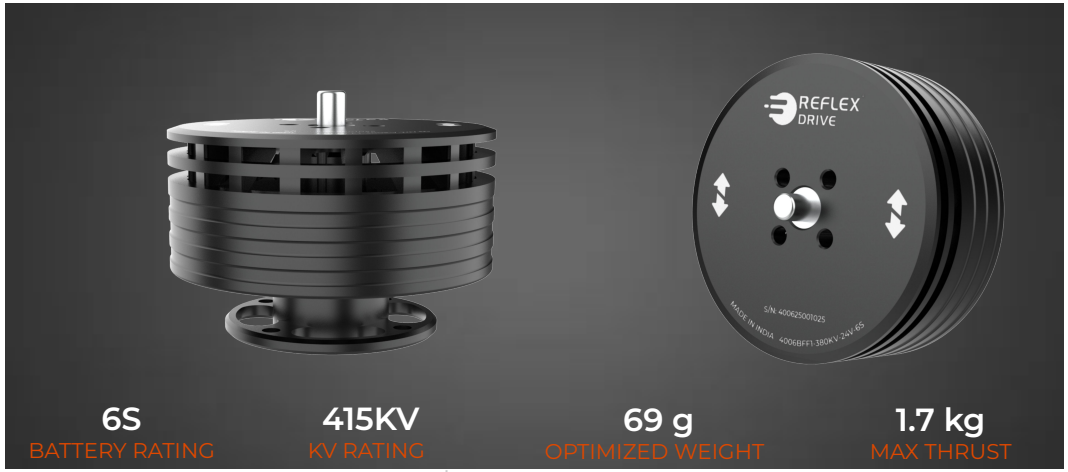
FPV Drone Motor

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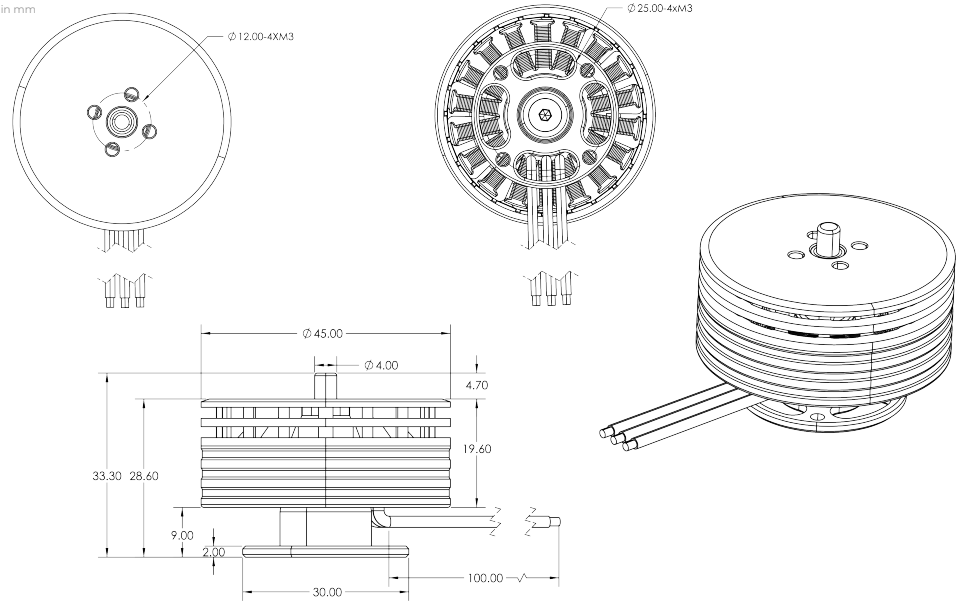
RD 4006

FPV Drone Motor

- RD 4006 Brushless Motor is a compact and versatile motor with a KV rating of 415, Made in India.
- It is designed to deliver superior power, efficiency, and stability across a range of applications.
- The motor is compatible with 15-inch to 17-inch propellers, making it ideal for UAVs.

PRODUCT DRAWING

Note: All dimensions in mm



Specifications

Product name	RD 4006 UAV BLDC MOTOR
Country of Origin	India
Motor Type	Outrunner
KV Rating	415 KV
Maximum Thrust	1.7 KG
Stator Poles / Magnet Poles	18/24
No load Current	0.8 A
Motor Efficiency	90.99 %
Weight (Incl. Wire)	69 grams
Voltage Range	4-6S
Peak Current (15 sec)	15 A
Motor Size	Ø45 mm x 33.30 mm
Stator Size	Ø40 mm x 6 mm
Cable Length	100 mm
Cable Type	16 AWG
Magnet Temperature Rating	150 ℃
Shaft Diameter	Ø4 mm
Winding Material	100% Copper
IP Rating	IP34
Maximum Operating Temperature	60 ℃
Production Status	Production

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

Multi-copter design recommendations :

Recommended Propeller: 1552 (Folding)
Recommended ESC: RD D-Pro V3 60A (4S-6S)

Quad-copter : Maximum take-off weight for the drone: 3.76 KG
Hex-copter : Maximum take-off weight for the drone: 5.78 KG
Oct-copter : Maximum take-off weight for the drone: 7.56 KG

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MOTOR : RD 4006(415KV) Black close top
ESC : RD D-Pro V3 60A (4s-6s) ESC
Propeller : RD 1552 Folding Prop
Power Source : SMPS 24V-DC

Throttle % (800-2000)	Servo	Current (A) O/L	Power (W) O/L	RPM O/L	Thrust (g)	Efficiency (g/w)
48	1372	1.0	24	2678	364	15.2
56	1469	2.0	48	3453	592	12.3
61	1536	3.0	72	4001	813	11.3
65	1581	4.0	96	4389	973	10.1
69	1627	5.0	120	4655	1100	9.2
73	1671	6.0	144	4924	1229	8.5
76	1713	7.0	168	5214	1352	8.0
79	1749	8.0	192	5414	1510	7.9
82	1782	9.0	216	5608	1664	7.7
85	1818	10.0	240	5784	1715	7.1
88	1855	11.0	264	5980	1833	6.9
91	1886	12.0	288	6116	1919	6.7
92	1900	13.0	312	6297	2025	6.5

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

Test Condition Notes :

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

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