



- High thrust output — up to 7900 g for heavy FPV builds
- Reliable under extreme load — handles up to 98A current
- Precision-balanced rotor — smooth, low-vibration operation
- Robust construction — M6 shaft and tight mechanical tolerances
- Optimized for 6S systems — stable at high RPMs

Specification	
Product Name	Motor Pilotix 4312 660KV
Model	Pilotix 4312
SKU	4836
Category	FPV Drone Motors
Motor KV	660KV
Motor Size	4312
Electrical	
Working voltage	24V
Power Supply	6S
Insulation Voltage Test	AC600V / 1 sec / 1 mA max
Mechanical	
Shaft Diameter	M6 (6mm)
Shaft length	18 mm
Mounting hole diameter	4 mm
Diameter	42 mm
Height (Body)	31.1 mm
Motor Weight	167.5 ± 5g
Shaft End Runout	≤ 0.04mm
Housing Runout	≤ 0.04 mm
Axial Gap (virtual position)	0 ~ 0.10 mm
Dynamic Balance Value	≤ 5 mg
Core and Stator Seat Pull-off Force	≥ 40 kg
Outgoing Shaft Pull-off Force	≥ 40 kg
Operating Noise	≤ 90 dB (Test Environment Noise ≤ 50dB)
No-Load Test 10V	
Kv Value	660 ± 5% RPM/V (22.2V)
No-Load Speed	6930 ~ 6270 RPM
No-Load Current	≤ 2.06 A Max
Test Equipment	Voltage regulator, brushless integrated tester
Load Test 24V	
Test Voltage 22.2/A	Lift Force ≥ 3200g
Test Throttle 100%	Lift Force ≥ 7900g - Load Current ≤ 98A
Test Equipment	Voltage regulator, 16×5 two-blade propeller

Test Table

No-load voltage	No-load current	No-load speed	KV	Load voltage V	Load current A	Lift G	Force Effectiveness %	Output power	Blade model	Date	Throttle/RPM
10	1.96	6651	665	20	4.50	841	9.344	90.00	16×5.4Rtwo-blade propeller weight:172.8g	2024/1/17	1300
				20	9.20	1439	7.821	184.00			1400
				20	16.30	2188	6.712	326.00			1500
				20	27.20	3068	5.640	544.00			1600
				20	36.30	3708	5.107	726.00			1700
				20	68.90	4526	3.284	1378.00			1852
				20	70.30	5120	3.642	1406.00			2000
				20	70.10	5653	4.032	1402.00			2000
											Open full throttle



