

Technical specifications of lifting motor block

MODEL: VTEM16

Motor	Rest VTEM16-Q16-KV220
ESC	Rest MDT80A 12S
Propeller	Rest CQ 22x6.6"



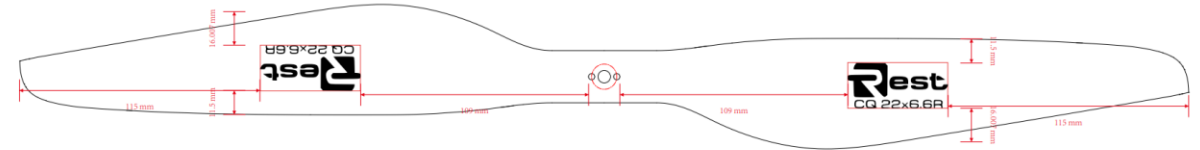
Technical specifications :

Propeller diameter	22 ± 1 inches
Height	50mm ± 10mm
Weight	≤700g
Required static thrust	11kgf
Maximum power required	2500W
Voltage	12S Lipo range (44.4÷50.4 VDC)
Maximum current required	75A
Control signal type	PWM
Waterproof and dustproof standard:	IP 45

Pitch	6.6 ± 1 inches
Control signal range	Covers the range of 1,100 ÷ 1,900 us
No-load speed constant (Kv)	220
Maximum rotation speed	≥7.000RPM
Magnetic pole configuration	24N28P
Coil insulation test standard	500V
Dynamic balance standard	Rotor ≤5mg; Motor ≤10mg
Wing material	CF+Epoxy
Copper wire type	High temperature resistant wire 220C, level C

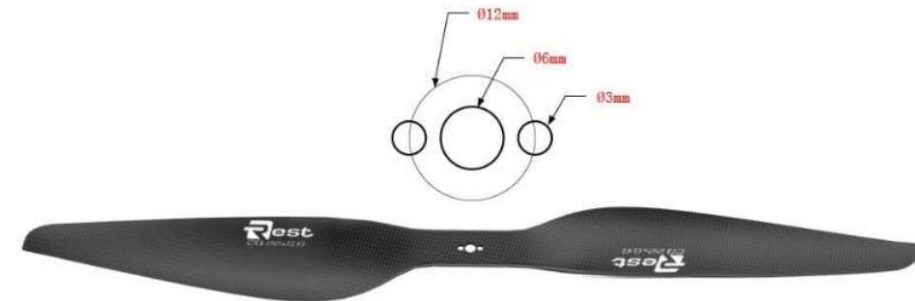
Technical specifications of lifting motor propeller

MODEL: Rest CQ22x6.6



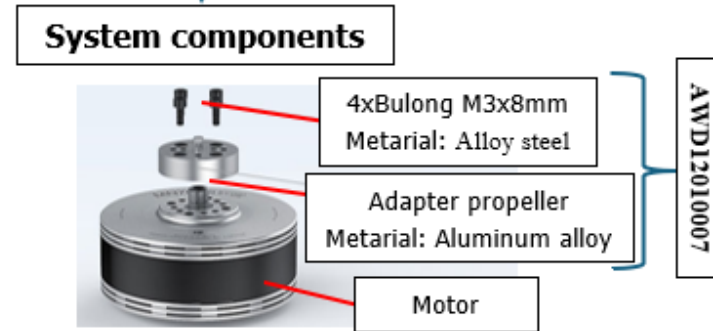
Technical specifications :

Model No	22*6.6 (558.8mm*167.6mm)
Propeller diameter	22 ± 1 inches (558.8mm)
Pitch	6.6 ± 1 inches (167.6mm)
Weight	45±2 g
Thrust Limitation	11.5 g
Optimum RPM	2800-4800 RPM/min
Wing material	CF+Epoxy
Ambient Temp	- 40÷65°C
Operating humidity	< 85%
Blades - integrated	2



Technical specifications of Motor

MODEL: VTEM16-Q16-KV220



Technical specifications :

Dimensions (DxH)	80x45mm (3.15x1.77 inch)
Weight	513g
Required static thrust	11 kgf
Maximum power required	2500W
Voltage	12S Lipo range 44.4÷50.4 VDC
Maximum current required	75A
Waterproof and dustproof standard:	IP 45

Magnet material standards:	High temperature resistance 150°C, level E
No-load speed constant (Kv)	220
Maximum rotation speed	≥7.000RPM
Magnetic pole configuration	24N28P
Coil insulation test standard	500V
Dynamic balance standard	Rotor ≤5mg; Motor ≤10mg
Copper wire type	High temperature resistant wire 220°C, level C

Technical specifications of ESC

MODEL: Rest MDT80A 12S



Technical specifications :

Dimensions (LxWxH)	84x35.5x19.5 mm
Weight	109.9 g
Maximum current	120A (10s)
Operating voltage	12S Lipo range (44.4÷50.4 VDC)
Operating humidity	15÷85%
Operating temperature	-20÷65 °C
Waterproof and dustproof standard	IP57

