Quattro Engine Specifications

Manufacturer	EOS ENGINE by R-moto GmbH, Austria
Type	Single cylinder 4 stroke, oil cooler or VT cooling shroud, 4 valve
Displacement	276cc
Bore/Stroke	73x66mm
Crankshaft	2 Bearing C3
Piston	Forged Racing alloy
Oil System	Wet sump with pressure pump and oil filter
Fuel system	CVK float bowl carburetor with acceleration pump
PRSU/Reduction	3.0:1 reduction with poly-V drive 16 rips
Prop Mounting	6 x 50mm M6 screws and 6 x 75mm M8 screws
Exhaust	Flexible stainless-steel manifold, alloy stainless Silencer with DP Killer
Starter	Manual pull start, Electric start, or Dual start
Ignition System	CDI
Oil Capacity	450cc
Oil Type	Fully Synthetic 10W50 or 10W60 4 stroke motorcycle oil (Spec – JASO – MA2 –API –SL)
Mountings	4 x M8 Silicon shock mounts (red)
Spark Plug type	NGK CR8E
Spark Plug Gap	0.60mm
Air filter	High flow foam filter
Oil Filter	Grid filter, no need to change
Drive belt tension	4-6mm Deflection at mid span point with 14Kg force or Frequency App, 380Hz
Valve clearances	0.10mm for inlet and 0,12mm exhaust valves
Fuel Type	95 or higher (Ron) Octane unleaded fuel
Engine Weight	Starting from 16,9 kg – depending on available options
Starter Motor Type	Pre-engaged
Battery (not included)	12v 3Ah minimum – Lead Acid or Lead Gel type or lithium
Generator	95W
Power Output at Crankshaft	30,6hp @ 8150 RPM
Thrust Output (static)	>80Kg with 1.30m propeller, measured on the trust test bench w/o cage, at 400m @ 20 degree
Max Power RPM	Limited to 3 minutes
Max Continuous RPM	7200 RPM
Oil Temp	Max 140 º C Min 55ºC
Cyl Head Temp	Max 190 º C Min 70ºC
Consumption	Depending on glider size and take-off weight. 2,2 to 2,8 liter per hour