

Engine specifications

PARAMETER	SPECIFICATION
Manufacturer	EOS ENGINE by R-moto GmbH, Austria
Type	Single cylinder 4 stroke, oil cooler or VT cooling shroud, 4 valve
Displacement	276 cc
Bore/Stroke	73 x 66 mm
Crankshaft	2 Bearing C3
Piston	Forged racing alloy
Oil System	Wet sump with pressure pump and oil filter
Fuel system	CVK 30 mm float bowl carburetor with accelerator pump
PRSU/Reduction	3.0 : 1 reduction with poly-V drive 16 ribs
Prop Mounting	6 x 50 mm M6 screws and 6 x 75 mm M8 screws
Exhaust	Flexible stainless-steel manifold, alloy stainless silencer with DB Killer
Starter	Manual pull start, electric start, or dual start (manual & electric)
Ignition System	CDI
Oil Capacity	450 cc + 80 cc when using an oil cooler
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	0.60 mm
Air filter	High flow foam filter
Oil Filter	Grid filter, no need to change
Drive belt tension	4-6 mm deflection at mid span point with 14 kg force or Frequency App, 380Hz
Valve clearances	0.10 mm for inlet and 0,12 mm exhaust valves
Fuel Type	95 or higher (Ron) Octane unleaded fuel
Engine Weight	Starting from 18,3 kg – depending on available options
Starter Motor Type	Pre-engaged
Battery (not included)	12 V 3 Ah min., 7 Ah max. – lead acid, lead gel type, lithium or LiFePO4
Generator	95W
Power Output at Crankshaft	30,6 hp at 8150 RPM
Thrust Output (static)	>80 kg with 1.30m propeller, measured on thrust test bench without cage, at 400 m a.s.l. and 20 °C ambient temperature
Max Power RPM	Limited to 3 minutes
Max Continuous RPM	7200 rpm
Oil Temp	Max 140 °C min 55 °C
Cyl Head Temp	Max 190 °C min 70 °C
Consumption	Depending on glider size and take-off weight. 2,2 to 2,8 liter per hour