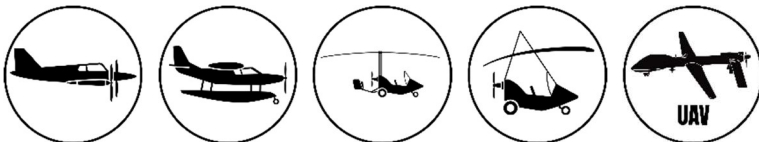


## ***SPIRIT 122 GEARED PSRU***



### ***Applicability***



## Engine data

Type	4 cylinder boxer
Displacement [cm <sup>3</sup> (in <sup>3</sup> )]	2201 (134)
Weight [Kg (lbs)]	79 (174) dry (without accessories)
Dimension L x W x H [mm (in)]	672 x 762 x 419 (26.46 x 30 x 16.5)
Stroke X Bore [mm (in)]	81 x 93 (3.18 x 3.66)
Compression Rate	10.3 ÷ 1
Thermodynamic Cycle	4 Stroke fuel (Otto cycle)
Fuel	Mo.GAS min. AKI 90, R.O.N. 95, M.O.N. 85, LL100
Cooling System	Liquid with mechanical pump
Lubrication	Semi-dry sump, pressure oil feed assisted with internal pump
Timing System	2 valves per cylinder with S.O.H.C. (Single Over Head Camshaft)
Timing Driving System	Gear + chain with automatic chain tensioner

## Transmission

Type	Gearbox with helical gear (separate lubrication)
Transmission Ratio	1 ÷ 1.732
Max Propeller Speed [rpm]	2400
Damper	Elasto-dissipative with Active Damping Control (A.D.C)
Optional	Integrated constant speed hydraulic governor

## Electric

Generator	Permanent magnet, oil cooled, 260W (12.5V-21A)
Starter	Electric 0.65kW with anti-kickback clutch
F.R.I.S. (Full Redundancy Injector System)	ECU with dual injection and ignition; altitude and temperature compensation; Limp home strategy
CAN Data Transmission	CAN Aerospace protocol

## Performance

Max Power [Hp (kW)]	122.2 (91.1) @ 4050rpm
Max Torque [Nm (Ft-lb)]	217.5 (160.4) @ 4000rpm
Max Continuous Power [Hp (kW)]	110 (82) @ 4000rpm
Max Engine Speed [rpm]	4200
Power/Weight [Hp/Kg (Hp/lbs)]	1.55 (0.70)
Fuel Cons. [L/h (USgal/h)]	18.5 (4.9) @ 75Hp
TBO [h]	2000