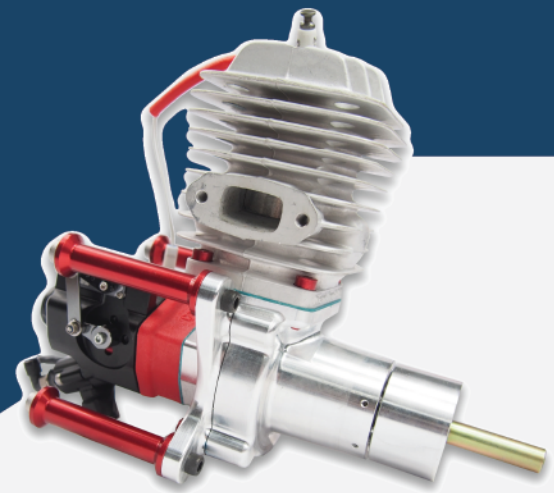




INF IF50 UAV Engine

TECHNICAL SPECIFICATIONS



Part Number (PN): IX50G

OPERATIONAL SPECIFICATIONS

Input Voltage	18v-26v ECU, 25v or 50v for PMU*
Engine Rotation	Puller (CCW) Pusher (CW)
Generator Options	2kW Dedicated Generator Only
Power Consumption	1.28amp - 6500 RPM
Output Power	3.1N.m, 2.2kW, 12kgf @6500RPM
Starting	Remote Starting via PMU and Alternator
Engine Displacement	50cc, 3.05cu in
Engine Control	INF Inject Electronic Fuel Injection
Ignition	Electronic Capacitive Discharge
Operating RPM	Engine 1800 ~ 8500RPM Alt 3800 ~ 7000 RPM
Telemetry	Serial/TTL/UART
Operating Temperature	-15°C to +50°C
Operational Altitude	0 - 15,000 ft
Engine Type	Single Cylinder 2-Stroke
Fuel Type	87~98 Octane Gasoline 40:1 Synthetic Oil
Cooling	Air Cooled
TBO	200h

COMPONENT WEIGHTS

System Weight	Engine including all components – 1940g
Optional Alternator	680g (1.5lbs)
Optional PMU PN: IFPMU48v200/300	470g (1lb)

- Proven reliability in fielded UAV applications
- Single power supply for the entire engine system
- Light weight 6061 & 7071 Aluminium
- Positive Locking Commercial Connectors
- Automatic Altitude Compensation
- Fuel Injection overheat protection
- Up to 65% fuel efficiency improvement with INF Fuel Injection
- On-board Data logging SD card + No logging option
- Seamless Integration with Autopilot Systems
- Standard exhaust / Noise Signature Reducer options available
- Automatic engine start via alternator + PMU
- Non branded options available
- All Engines Run and Calibrated before shipping
- Recommended Propeller: 2B 22x10, 23x8

