

Description

The A33N Engine System is Cobra Aero's initial entrant in the A33 family of engines. The A33N engine is an all-new purpose designed UAS engine.



- High power to weight
- Low acoustic signature
- Fits a typical 3W-28i footprint
- 3D-printed aluminum head and cylinder improves engine repeatability
- Hardware, electronics and software all designed specifically for UAS applications
- Machined crankcase with integrated belt driven generator.
- Passed FAR33 150-hour endurance test

Specifications

Engine Type:	Air-cooled 2-stroke single
Displacement:	33 cc (2.0 ci)
Mass:	2.25 kg (5 lbs) (Includes core engine, exhaust, ECU, fuel pump, injector, ignition, generator, harnesses)
Power Output:	2.0 kW (2.7 HP) at 8200 RPM
Fuel Consumption:	500 g/kW-hr (0.82 lb/hp-hr) cruise
Generator Output:	250W (500 W intermittent)
Fuel Type:	Gasoline 50:1 premix

The engine package includes

- Power4Flight IntelliJect ECU
- Currawong self-priming fuel pump
- All required EFI sensors and wire harnessing
 - CHT, MAT and Fuel pressure
 - Baro and MAP
 - CDI module
- Fuel pressure accumulator
- Full induction and exhaust system
- Electric power generator with start capability
- Cooling duct with active control

Features

- Altitude compensation
- Cold start compensation
- Superior throttle response compared to carbureted engines
- Onboard log-booking and maintenance tracking
- Onboard data logging
- Plug n' Play with Piccolo autopilot
- Free communications ICD and software developers kit for CAN and serial
- Free user interface for engine and configuration development

