



240 Uran Street
Hillsdale, MI 49242

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www.cobra-aero.com

Date: Feb 1, 2025

A33N

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DESCRIPTION

The A33N Propulsion System is Cobra AERO's initial entrant in the AXX family of engines. The A33N engine is an all-new purpose designed UAS engine, and it's quickly becoming the standard for Group 2 UAS.



- High power to weight
- Low acoustic signature
- Additively manufactured cylinder, mount, intake, and exhaust system unlock design potential that other manufacturing methods can't (performance, weight, package, sound, efficiency)
- Hardware, electronics and software all designed specifically for UAS applications
- Machined crankcase with integrated belt driven generator
- Active cooling duct
- Integrated focal isolation mount
- Passed FAR33 Accelerated Durability Test
- Alternate A33 Engine configurations available upon request
- Parallel hybrid capabilities boost output when bursts of climb or sprint power are required

SPECIFICATIONS

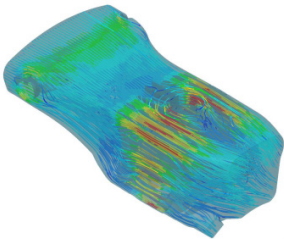
Engine Type:	Air-cooled 2-stroke single
Displacement:	33 cc (2.0 ci)
Mass:	3.15 kg (6.94 lbs) (Includes core engine, exhaust, ECU, fuel pump, injector, ignition, generator, harnesses)
Power Output:	2.2 kW (2.9 HP) at 8350 RPM
Fuel Consumption:	500 g/kW-hr (0.82 lb/hp-hr) cruise
Generator Output:	200W (400 W intermittent)
Fuel Type:	Gasoline 50:1 premix

SYSTEM INCLUDES

- Power4Flight IntelliJect ECU
- Currawong self-priming fuel pump
- All required EFI sensors and wire harnessing
 - CHT, MAT and Fuel pressure
 - Baro and MAP
 - Ignition module
- Fuel pressure accumulator
- Full induction and exhaust system
- Electric power generator with start capability
- Cooling duct with active control
- Optional IntelliGen PMU for starting charging and power augmentation capabilities
- Available NDAA-848 Compliant ECU

FEATURES

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





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A33N-AXS Performance
17x10 prop

kW

HP

