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DESCRIPTION

The A99 is currently under development. Its inline three-cylinder architecture is based off Cobra Aero's AXX combustion system platform. It features precision liquid cooling, fuel injection, tuned intake and exhaust, and a direct drive generator.



- High power to weight
- Low acoustic signature
- Cowls much tighter than traditional boxer twin
- 3D-printed aluminum head, cylinder, crankcase and exhaust improves engine repeatability
- Hardware, electronics and software all designed specifically for UAS applications
- Primary and secondary shaking forces are inherently balanced
- Fires every 120 deg. Higher frequency torque impulses provide for relatively smooth operation
- Separate crankcases for each cylinder offers improved mixture control and decreased cycle-to-cycle variability

SPECIFICATIONS

Engine Type:	Liquid-cooled 2-stroke inline triple
Displacement:	99 cc (6.0 ci)
Mass:	3.65 kg (8 lbs) (Includes core engine, exhaust, ECU, fuel pump, injectors, ignition, generator, harnesses)
Power Output:	7.0 kW (8.1 HP) at 8500 RPM
Fuel Consumption:	500 g/kW-hr (0.82 lb/hp-hr) cruise
Generator Output:	400W (700 W intermittent)
Fuel Type:	Sunoco 260 GTX 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 system 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

