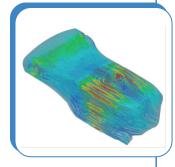




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DESCRIPTION

The A33H Engine System from Cobra Aero is the same core engine as the A33N with special modifications to optimize heavy fuel operation.



- 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, etc.)
- Hardware, electronics and software all designed specifically for UAS applications
- Machined crankcase with integrated belt driven starter-generator
- Integrated focal isolation mount
- Parallel hybrid capabilities help boost output when bursts of climb or sprint power are required

SPECIFICATIONS

Engine Type: Displacement: Mass:

Power Output: PreHeat: Fuel Type:

Air-cooled 2-stroke single 33 cc (2.0 ci) 3.15 kg (6.94 lbs) (Includes core engine, exhaust, focal isolation mount, ECU, fuel pump and accumulator, injector, ignition, generator, harnesses) 1.9 kW (2.5 HP) at 8050 RPM 10 minutes @ 110 Watts **Fuel Consumption:** 500 g/kW-hr (0.83 lb/hp-hr) cruise Generator Output: 200W (400 W intermittent) JP-5, Jet A, VP, P4F heavy fuel 50:1 premix

THE ENGINE PACKAGE INCLUDES

- **Power4Flight IntelliJect ECU**
- Self-priming fuel pump and accumulator
- All required EFI sensors and wire harnessing
 - CHT, MAT and Fuel pressure
 - **Baro and MAP**
 - CDI module
- Integrated preheating system
- **Electric power generator**
- Cooling duct with active control
- **Optional IntelliGen PMU for starting** charging and power augmentation capabilities

FEATURES

- **Altitude compensation**
- **Onboard data logging, maintenance** schedule, and logbook
- Full size spark plug for high altitude performance and improved MTBO
- 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

A33H Datasheet - Page2



