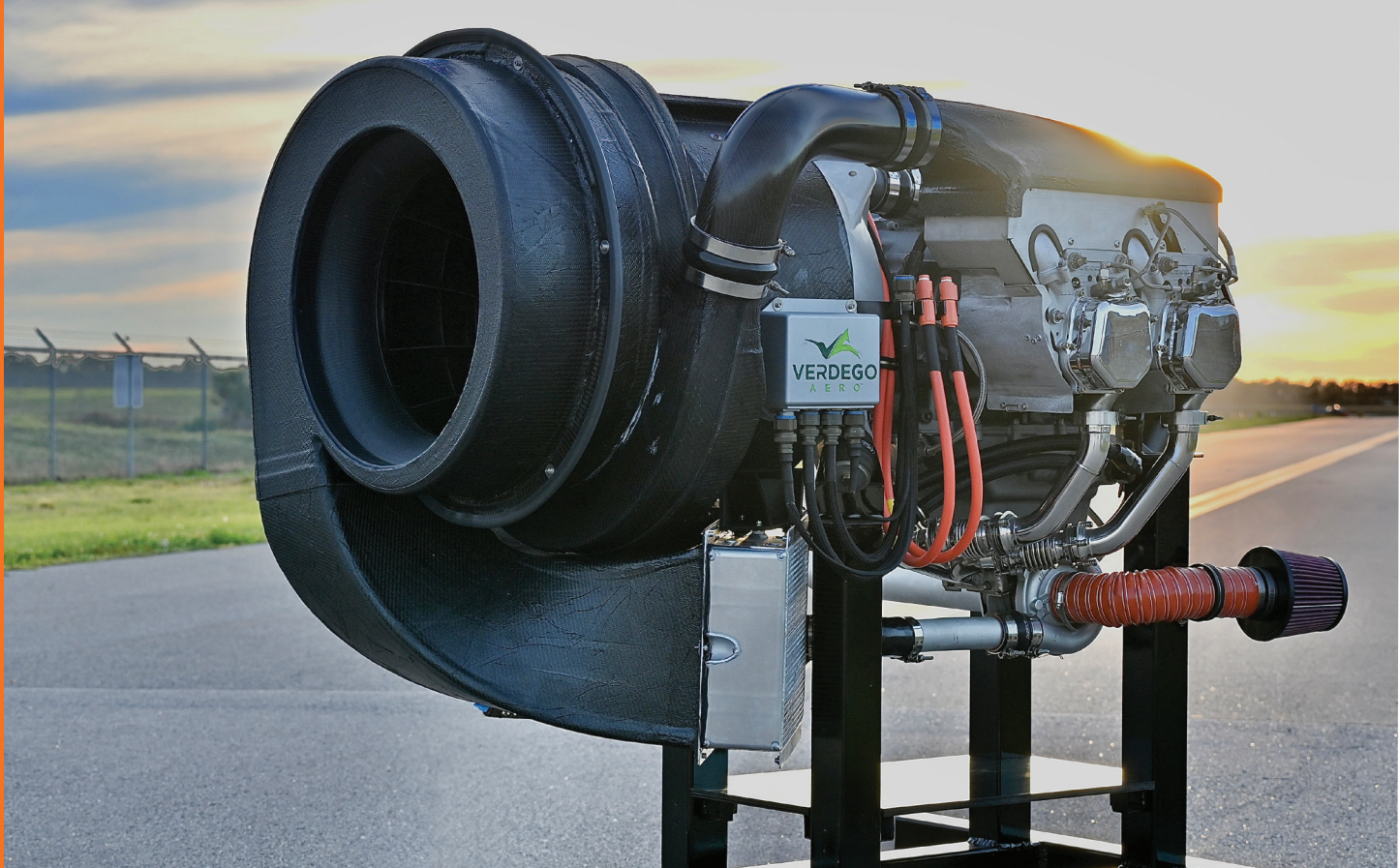


VH-3-185

Hybrid-electric
Aircraft Powerplant



Primary power generation for hybrid-electric aircraft



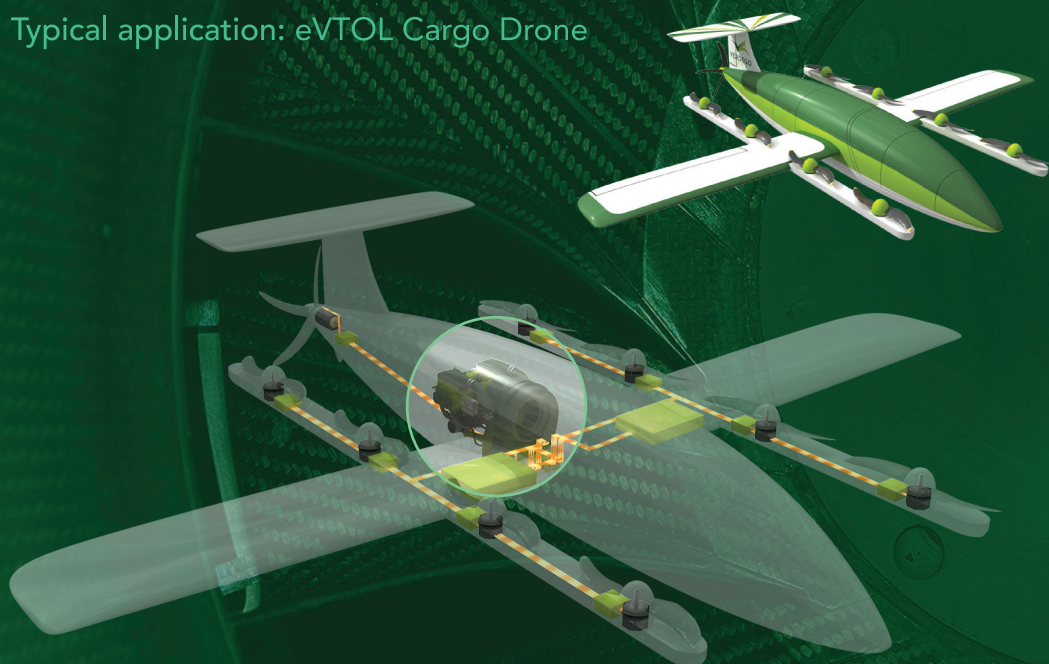
5X higher energy density than batteries



40% better fuel economy than turbine-hybrids

VH-3-185 High-efficiency Hybrid-electric Aircraft Powerplant

Typical application: eVTOL Cargo Drone



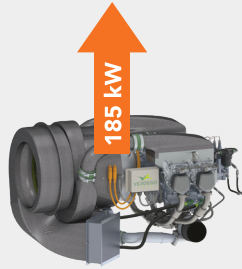
- Uses readily-available Jet A, Jet A-1, JP8 fuel
- Provides 4X - 6X the range and endurance of batteries alone
- Light weight integrated air-cooling system
- Superior direct operating costs
- Superior carbon emissions
- Part 33 certification in process



MULTIPLE OPERATING MODES

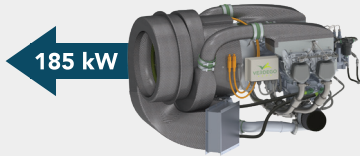
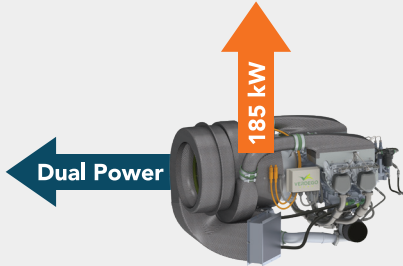
SERIES

Pure electric power output



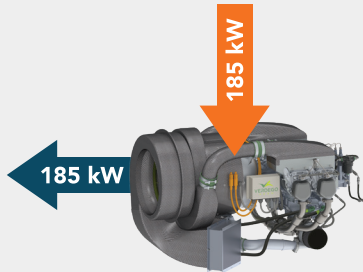
PARALLEL

Pure shaft power or blended shaft and electric power output



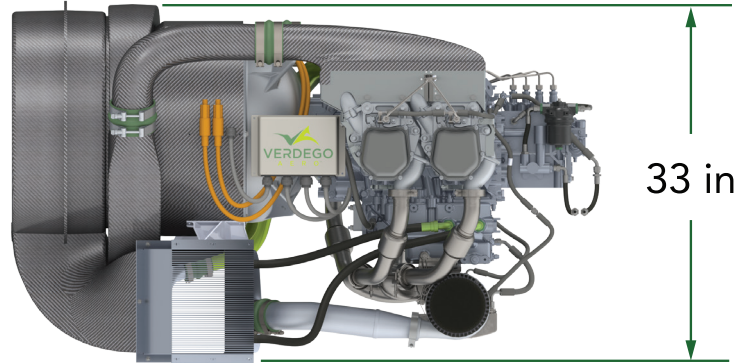
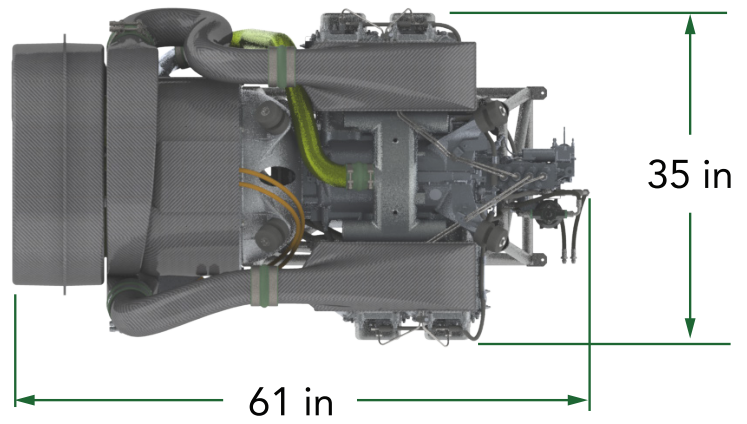
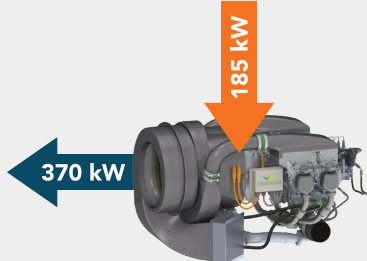
QUIET

Engine off, battery power drives output shaft



BOOST

Use battery power to boost shaft output



VerdeGo Aero's hybrid-electric powerplants are tightly integrated systems capable of generating the power required for the most demanding mission requirements for electrified aircraft. Starting with a certified aircraft engine, VerdeGo adds its hybridization technologies including the motor/generator, cooling systems, control systems, and mechanical integration to create an optimized powerplant capable of efficiently converting Jet A, JP-8, or SAF liquid fuels into electric propulsive power. With draft Part 33 certification standards already issued to VerdeGo by the FAA, The VH-3 hybrid powerplant is our most fuel efficient solution for aircraft and drones that require low fuel consumption and long endurance.

Simple, Powerful, Efficient | On The Road To Certification

SPECIFICATIONS	SI Units	SAE Units
Max continuous e-power	185 kW	248 hp
Max continuous shaft power	185 kW	248 hp
Max burst shaft power*	370 kW	496 hp
Nominal system bus voltage	800V	800V
Specific fuel consumption	227 g/kWh	0.37 lb/hp-h
Ambient temperature range	-40 to 50C	-40 to 122F
Ceiling for full takeoff power	3050 m	10,000 ft
Certified ceiling	6100 m	20,000 ft
Dimensions (LxWxH)	155x90x84cm	61x35x33in
Mass, dry**	295 kg	650 lb

* Max burst shaft power depends upon battery configuration

** Dry mass includes engine, generator, inverter, and thermal systems

All specifications and performance metrics are preliminary and subject to change.



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