LOWENTALHYBRID

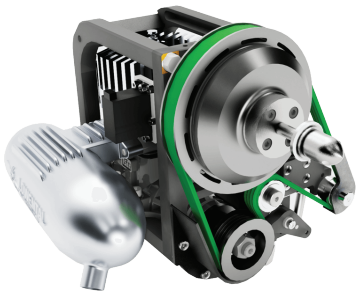
LH-01 The World's First Parallel Hybrid Propulsion for UAVs

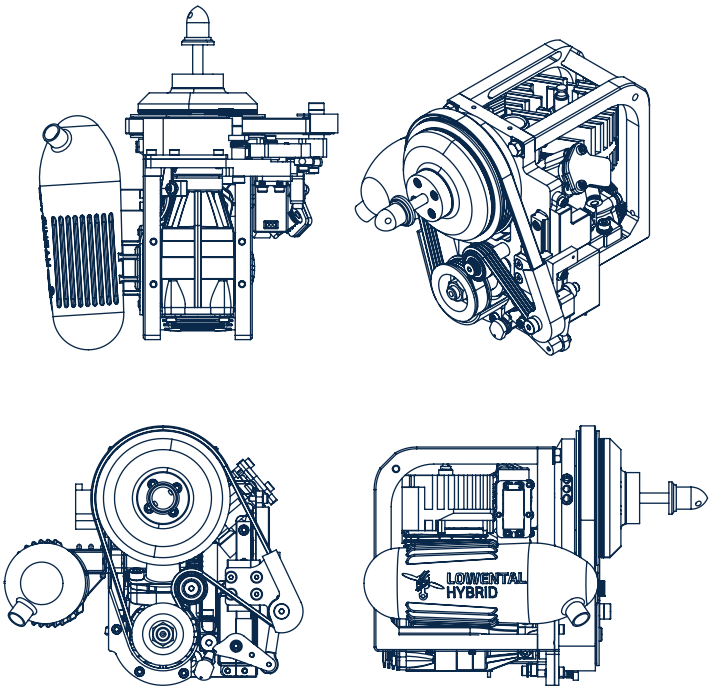
Lowental Hybrid introduces LH-01, a next-generation propulsion system engineered with our proprietary Native Parallel Hybrid™ architecture from day one. Designed for tactical UAVs and loitering munitions in the 15-30kg / 33-66lb MTOW class, it combines the stealth and power of electric flight with the endurance of fuel in one compact, mission-ready system.

Key Capabilities:

- **Fully parallel hybrid: motor/starter/generator + ICE**
- **High power-to-weight performance: Optimized for tactical operations.**
- **8-12 hrs endurance: up to 5× vs. fully electric UAVs***
- **30-45 min silent electric flight***
- **150W in-flight charging for avionics and sensors**
- **Built-in dual power redundancy for mission assurance**

*Typical 15-30 kg MTOW fixed-wing platform.





LH-01 Operational Specification	
Usage	Hybrid propulsion system for fixed-wing/VTOL
Typical MTOW	15-30 kg 33-66 lb
UAS Group (US DoD)	Group 2-3
Max Electric Output Power	2,755 W 3.69 HP
Nominal Electric Power Output (Avionics/Charging)	150 W
Max Gasoline Output Power	1,415 W 1.9 HP
Engine Type	Air-cooled, 2-stroke single cylinder
Starting Method	Automatic
Fuel Type	Pre Mixed Gasoline / Heavy fuel + 4% Two Stroke Oil
Fuel Delivery	EFI (Electronic Fuel Injection)
Average Nominal Specific Fuel Consumption Rate	Gasoline - 0.47 - 0.52 kg/kW·h Heavy Fuel - 0.50 - 0.55 kg/kW·h
Full System Weight	2.5 kg 5.5 lb
Operating Temperature	-20°C to +50°C -4°F to +122°F
Operating Altitude	0 - 3,040 m 0 - 10,000 ft
MTBO	250 hours
Recommended Propeller	16" - 20"

Parallel by Design. Engineered to Outfly.

info@lowental-hybrid.com
www.lowental-hybrid.com