LOWENTALHYBRID

LH-02 The World's First Parallel Hybrid Propulsion for UAVs

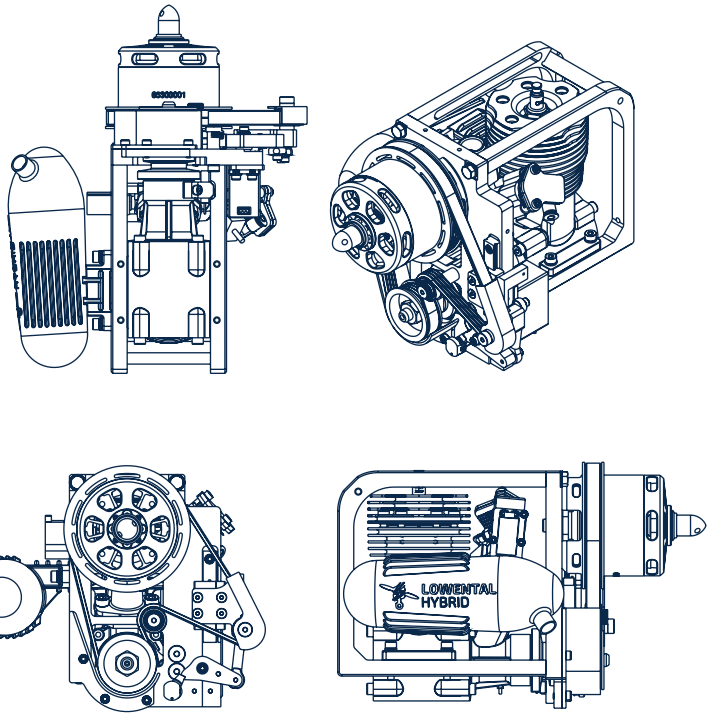
Lowental Hybrid introduces LH-02, a next-generation propulsion system engineered with our proprietary Native Parallel Hybrid™ architecture from day one. Designed for tactical UAVs and loitering munitions in the 25-45kg / 55-99lb MTOW class, it combines the stealth and power of electric flight with the 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.**
- **10-12 hrs endurance: up to 5× vs. fully electric UAVs***
- **25-40 min silent electric flight***
- **250W in-flight charging for avionics and sensors**
- **Built-in dual power redundancy for mission assurance**

*Typical 25-45 kg MTOW fixed-wing platform.





LH-02 Operational Specification	
Usage	Hybrid propulsion system for fixed-wing/VTOL
Typical MTOW	25-45 kg 55-99 lb
UAS Group (US DoD)	Group 2-3
Max Electric Output Power	3,600 W 4.82 HP
Nominal Electric Power Output (Avionics/Charging)	250 W
Max Gasoline Output Power	2,385 W 3.2 HP
Engine Type	Air-cooled, 2-stroke single cylinder
Starting Method	Automatic
Fuel Type	Pre Mixed Gasoline + 4% Two Stroke Oil
Fuel Delivery	EFI (Electronic Fuel Injection)
Average Nominal Specific Fuel Consumption Rate	Gasoline - 0.43 - 0.48 kg/kW·h
Full System Weight	3.3 kg 7.3 lb
Operating Temperature	-20°C to +50°C -4°F to +122°F
Operating Altitude	0 - 3,960 m 0 - 13,000 ft
MTBO	250 hours
Recommended Propeller	20" - 24"

Parallel by Design. Engineered to Outfly.

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