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Black Marlin Mk1 | Parallel-Hybrid Fuel UAS

The Black Marlin Parallel-Hybrid UAS utilizes a Direct Drive Propulsion System (DDPS) which combines the simplicity of the multirotor structure and the power of an internal combustion engine. Enabling a superior energy density that is safe, simple, and cost effective. Maximizing efficiency while keeping operating expenses to a minimum.



Design Features:

- + Direct Drive Propulsion System (DDPS)
- + 3+ Hour Flight Time with 11lbs payload
- + 55lbs Maximum Takeoff Weight (MTOW)
- + Electric Flight Emergency Backup
- + 5 Minute Rapid Assembly
- + Open System Architecture
- + Supports Modular Payloads for Easy Integration



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SPECIFICATIONS

Performance

Endurance	180min Flight Time with 11lbs Payload
Maximum Takeoff Weight (MTOW)	55lbs
Dry Weight	33lbs
Range (with 11lbs payload)	93 miles
Temperature Limits	14°F to 122°F
Speed Limits	Maximum Cruise – 34mph

Dimensions

Arms Removed	27.5in x 27.5in x 29.5in
Ready to Fly	66.9in x 66.9in x 29.5in

Power

Source	Gasoline/Electric Parallel-Hybrid
Propulsion	2-Stroke, Air-Cooled, 120cc engine
Battery Flight Time (Emergency Backup)	5min
Gasoline Type	Premium Unleaded

Electronics / Communications

Flight Controller (Standard)	Cube Orange / Blue
Communication System (Standard)	Herelink

Software

Proprietary Health Monitoring Software (HMS) for live in-flight monitoring

