



Carrier H6 EFI

GENERAL

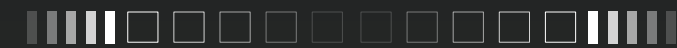
Maximum Takeoff Weight	55 lbs 25 kg
Empty Weight	32 lbs 14.5 kg
Max Payload	11 lbs 5 kg
Flight Time	Up to 300 min. (No Payload)
Max Speed	33.6 mph 15 m/s
Max Vertical Speed	5.6 mph 2.5 m/s
Max Lean Angle	30 degrees
Dimensions (Unfolded)	- Prop Tip to Tip: 2363.4 mm -Landing Gear Base: Length: 614.7 mm Width 654.1 mm



Flight modes	- GPS LOITER - ALTITUDE HOLD - FULLY AUTONOMOUS
Radio Frequencies	2.4 GHz (ISM) 902-928 MHz
System Architecture	Open Source
GPS	Dual RTK GNSS
Payload Mounting	Dampened Modular Quik-Release
Weather Rating	Light Rain
Flight Safety Systems	- Radio Connectivity Monitoring - Backup Battery Redundancy (5 mins) Backup Battery Voltage & Amperage Monitoring
Dimensions (folded)	- Height (Customizable): 620 mm - Length: 725 mm - Width: 780 mm

POWERPLANT

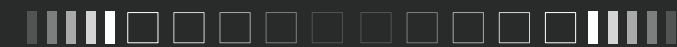
Engine Model	H2400 EFI (Electronic Fuel Injection) Generator
Max Continuous Power	2.4 kw
Max Instantaneous Power	8 kv
Auxiliary Power	5.3 V, 12 V, 24 V, 48 V Power Ports



Safety Features	- Engine Temperature Monitoring - Throttle % Monitoring - Active Engine RPM Feedback
Engine Mode Status	Stop Idle Run
Fuel Monitoring	- Real-Time Fuel Flow Sensing via EFI - Engine Run Time Calculator
Fuel Type	Unleaded 93 Octane

OPERATION AND ENVIRONMENTAL

Operation Temp	-20°C to 40°C -4°F to 104°F
Max Operational Wind Speed	25 mph 11 m/s



Service Ceiling AMSL	6560 ft 2000 m (Payload Dependant)
Service Ceiling AGL	400 ft 122 m (FAA Limited)



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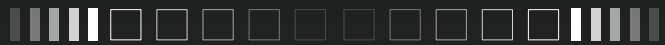
MOTORS AND PROPELLERS



# Motors	6
Equivalent KV	KV100 Motors
Optimal RPM	2200 - 2800 RPM

Motor Configuration	HEXA X
Propeller Material	Carbon Fiber with Aluminum Hub
Propeller Dimensions	29.2 in x 9.2 in

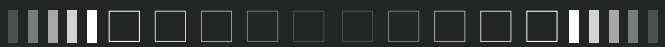
COMMAND AND CONTROL



Harris C-GCS	<ul style="list-style-type: none"> - 19 in Dual HD Display - Hands-on Throttle-and-Stick (HOTAS) - Freq: 902 - 928 MHz - 12 Channel Functionality
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hereLink	<ul style="list-style-type: none"> - Handheld Remote - 5.5 in Display - Freq: 2.4 GHz (ISM) - 32 Channels Functionality
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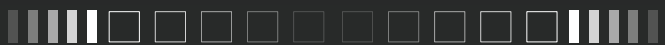
FLIGHT CONTROLLER



Flight Controller	Cube Orange
Data Transmission Range	12.5 mi 20 km (Ideal Conditions)
Firmware	Custom ArduPilot

Takeoff and Landing	Autonomous or Manual Control
Flight Tracking	ADS-B (Receiver)
Safety Features	<ul style="list-style-type: none"> - Triple Redundant IMU - Redundant Power Supply

BATTERY



Battery Type	6s1p LiPo (2x Batteries)
Peak Battery Voltage	50.4 V
Nominal Battery Voltage	44.4 V

Battery Capacity	5000 mAh
Battery Life Cycle	250 Flights
Battery Connector	XT90-S (Anti-Spark)