



Carrier H6 Hydron

GENERAL			
Maximum Takeoff Weight	55 lbs 25 kg	Flight modes	- GPS LOITER - ALTITUDE HOLD - FULLY AUTONOMOUS
Empty Weight	32 lbs 14.5 kg	Radio Frequencies	2.4 GHz (ISM) 902-928 MHz
Max Payload	11 lbs 5 kg	System Architecture	Open Source
Flight Time	Up to 180 min. (No Payload)	GPS	Dual RTK GNSS
Max Speed	33.6 mph 15 m/s	Payload Mounting	Dampened Modular Quik-Release
Max Vertical Speed	5.6 mph 2.5 m/s	Weather Rating	Light Rain
Max Lean Angle	30 degrees	Flight Safety Systems	- Radio Connectivity Monitoring - Backup Battery Redundancy (5min) - Backup Battery Voltage & Amperage Monitoring
Dimensions (Unfolded)	- Prop Tip to Tip: 2363mm / 93" - Height (Customizable): 735mm / 29"	Dimensions Transport Case	- Length: 903mm / 35.6" - Width: 903mm / 35.6" - Height: 775mm / 30.6"

POWERPLANT			
Generatoe	IE SOAR Fuel Cell Power Module (FCPM)	Refueling Equipment	Pneumatic-Driven Gas Boosters
Max Continuous Power	2.4 kW	Fuel Cell	10.8 L 350 bar (Anti-Spark) Cylinder
Max Instantaneous Power	2.7 kW	Fuel Type	Hydrogen Gas (H ₂)
Auxiliary Power	12 V, 24 V, 48 V Power Ports	Safety Features	- Dual redundant FCPM power system - Hydrogen Gas % Monitoring - FCPM Health monitoring



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OPERATION AND ENVIRONMENTAL

Operation Temp	-5°C to 40°C 23°F to 104°F
Max Operational Wind Speed	25 mph 11 m/s

Service Ceiling AMSL	12,000 ft 3658 m (Payload Dependant)
Service Ceiling AGL	400 ft 122 m (FAA Limited)

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 - NDAA Compliant
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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	6s2p LiPo (2x Batteries)
Peak Battery Voltage	50.4 V
Nominal Battery Voltage	44.4 V

Battery Capacity	4,750 mAh
Battery Life Cycle	250 Flights
Battery Connector	XT90-S (Anti-Spark)