



## Carrier H6 HL

### GENERAL

<b>Maximum Takeoff Weight</b>	209.4 lbs   95 kg
<b>Empty Weight</b>	121.3 lb   55 kg
<b>Max Payload</b>	88.2 lb   40 kg
<b>Flight Time</b>	45 min. (No Payload)
<b>Max Speed</b>	33.6 mph   15 m/s
<b>Max Vertical Speed</b>	5,6 mph   2,5 m/s
<b>Max Lean Angle</b>	30 degrees
<b>Dimensions (Unfolded)</b>	- Prop Tip to Tip: 3167.1 mm -Landing Gear Base: Length: 640.5 mm   Width 705.5 mm - Height: 699.7 mm

<b>Flight modes</b>	- GPS LOITER - ALTITUDE HOLD -FULLY AUTONOMOUS
<b>Radio Frequencies</b>	2.4 GHz (ISM)   902-928 MHz
<b>System Architecture</b>	Open Source
<b>GPS</b>	Dual RTK GNSS
<b>Payload Mounting</b>	Dampened Modular Quik-Release
<b>Weather Rating</b>	Light Rain
<b>Flight Safety Systems</b>	- Radio Connectivity Monitoring - Battery Voltage & Amperage Monitoring
<b>Dimensions (folded)</b>	- Length: 1000 mm - Width: 1000 mm - Height: 355.6 mm

### POWERPLANT AND BATTERIES

<b>Battery Type</b>	6S1P Lipo (8xBatteries)
<b>Peak Battery Voltage</b>	50.4 V
<b>Nominal Battery Voltage</b>	44.4 V
<b>Auxiliary Power</b>	5.3 V, 12 V, 24 V, 48 V Power Ports

<b>Battery Capacity</b>	30.000 mAh
<b>Battery Life Cycle</b>	250 Flights
<b>Battery Connector</b>	AS150U-F (Anti-Spark)
<b>Safety Features</b>	Battery Voltage & Amperage Monitoring



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### OPERATION AND ENVIRONMENTAL



<b>Operation Temp</b>	-20°C to 49°C   -4°F to 120°F
<b>Max Operational Wind Speed</b>	25 mph   11 m/s

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

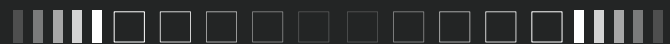
### MOTORS AND PROPELLERS



<b># Motors</b>	6
<b>Equivalent KV</b>	KV100 Motors
<b>Optimal RPM</b>	2200 - 2800 RPM

<b>Motor Configuration</b>	HEXA X
<b>Propeller Material</b>	Carbon Fiber with Aluminum Hub
<b>Propeller Dimensions</b>	40 in x 13.1 in

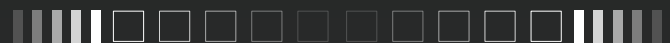
### COMMAND AND CONTROL



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



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

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