

CARRIER

H6 HYDRONE

Hydrogen-electric conversion produces clean DC power for extended silent flight — the endurance of a hybrid system with the near-silent operation of an all-electric multirotor.

5 KG

MAX PAYLOAD

180 MIN

MAX FLIGHT TIME

2.4 KW

FUEL CELL POWER

3,500 M

SERVICE CEILING

UNIVERSAL

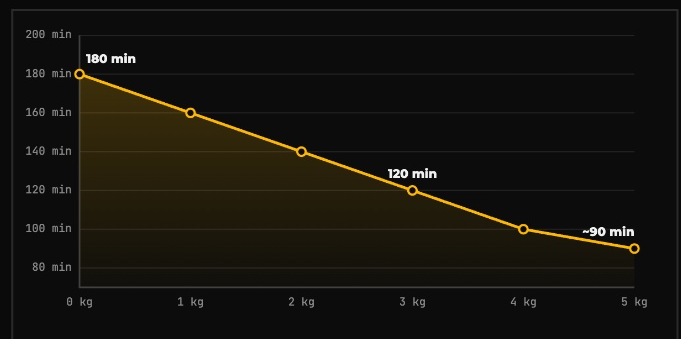
PAYLOAD CONNECTOR

CARRIER H6 HYDRONE.

The Carrier H6 Hydrone uses highly efficient hydrogen-electric conversion to produce clean DC power in a robust, lightweight package. It delivers extreme hybrid flight times while maintaining the nearly silent operation of an all-electric multirotor.

As part of the H6 family, it remains fully convertible to gas-electric or all-electric power formats in minutes — one airframe, three power systems.

PERFORMANCE FLIGHT TIME VS. PAYLOAD



TESTED AT 120 M AGL · 2-MIN LANDING RESERVE · VARIES WITH ALTITUDE, TEMP & WIND

02 - CONFIGURATION HIGHLIGHTS


01 5 kg MAX PAYLOAD	02 180 min MAX FLIGHT TIME	03 2.4 kW FUEL CELL POWER	04 3,500 m SERVICE CEILING	05 Universal PAYLOAD CONNECTOR
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03 - GROUND CONTROL

GROUND CONTROL OPTIONS.

OPTION A · HANDHELD - COMMERCIAL & MILITARY

OPTION B · CONSOLE

		
<h2>C-NAVIGATOR</h2> <p>COMMERCIAL</p> <p>RUGGED HANDHELD GCS</p> <ul style="list-style-type: none"> 8" HD Touchscreen Real-Time Video · Low Latency MAVLink Native NDA A Compliant 	<h2>C-SROC</h2> <p>MILITARY / DEFENSE</p> <p>SOLDIER ROBOTIC CONTROLLER</p> <ul style="list-style-type: none"> 7" WXGA Glove-Touch MIL-STD-810-H · IP65 Nett Warrior · AES-256 / STIG NDA A Section 848 	<h2>C-GCS</h2> <p>CONSOLE</p> <p>PROFESSIONAL MISSION COMMAND</p> <ul style="list-style-type: none"> 12-Channel Functionality Sunlight-Viewable Display 2-Axis Payload & Gimbal NDA A Compliant

■ ALL STATIONS · MAVLINK NATIVE · NDA A SECTION 848

04 - SPECIFICATIONS

TECHNICAL SPECIFICATIONS.

A GENERATOR & POWERPLANT

GENERATOR	2.4 kW Fuel Cell Power Module	REFUELING	Pneumatic-Driven Gas Boosters
CONTINUOUS POWER	2.4 kW	BACKUP BATTERY	6S2P LiPo (5-min redundancy)
PEAK POWER	2.7 kW	ORIGIN	Made in USA
FUEL CYLINDER	10.8 L · 350-bar (Anti-Spark)		
FUEL TYPE	Hydrogen Gas (H ₂)		

B AIRFRAME & PERFORMANCE

FRAME TYPE	Hexacopter (Foldable)	MAX TAKEOFF WEIGHT	25 kg · 55 lbs
MAX HORIZONTAL SPEED	15 m/s · 33.6 mph	EMPTY WEIGHT (WITH FCPM)	14.5 kg · 32 lbs
MAX VERTICAL SPEED	2.5 m/s · 5.6 mph	DIMENSIONS (UNFOLDED)	Prop tip 2,373 mm · H 793 mm
MAX FLIGHT TIME	180 min (no payload)	TRANSPORT CASE (FOLDED)	903 × 903 × 808 mm
SERVICE CEILING	11,483 ft · 3,500 m AMSL	IP RATING	IP43
PROPELLERS	Carbon Fiber w/ Aluminum Hub	OPERATING TEMP	-5 °C to 42 °C · 23 °F to 108 °F

C COMMAND, CONTROL & SAFETY

FLIGHT CONTROLLER	Cube Orange (Custom ArduPilot)	FAILSAFES	Radio, Battery & H ₂
RADIO FREQUENCIES	2.4 GHz ISM · 902-928 MHz	GROUND CONTROL	Harris C-GCS / HereLink
DATA RANGE	Up to 20 km · 12.5 mi (Extended-Range Optional)	FLIGHT TRACKING	ADS-B Receiver
IMU REDUNDANCY	Triple Redundant IMU	COMPLIANCE	NDA Compliant (Section 848)
POWER REDUNDANCY	Dual Redundant FCPM		

D PAYLOAD INTERFACE

MOUNT TYPE	Dampened Modular Quick-Release	AUX POWER OUT	5.3 V · 12/14 V · 24/28 V · 48 Vbat
MOUNT COMPATIBILITY	Universal Payload Connector	DATA INTERFACE	UART / Ethernet / CAN / GPIO / USB
MAX PAYLOAD	5 kg · 11 lbs	COMPATIBLE PAYLOADS	LiDAR · Photogrammetry · Thermal/EO-IR · Multispectral · Custom
POWER SOURCE	Continuous FCPM Bus		



HARRIS AERIAL

CARRIER H6 HYDRONE

HYDRONE · PRODUCT BROCHURE

FRONTIER PRECISION
UNMANNED
uas@frontierprecision.com
www.frontierprecision.com/unmanned

H6 HYDRONE.

— CONTACT

WEB

harrisaerial.com

EMAIL

info@harrisaerial.com

PHONE

(407) 725-7886