

CARRIER

# H6 ELECTRIC

A long-duration, heavy-lift hexacopter optimized for payload versatility — plug-and-play, field-swappable, mission-ready.

**8 KG**

MAX PAYLOAD

**48 MIN**

MAX FLIGHT TIME

**FOLDABLE**

DESIGN

**12,000 FT**

SERVICE CEILING

**UNIVERSAL**

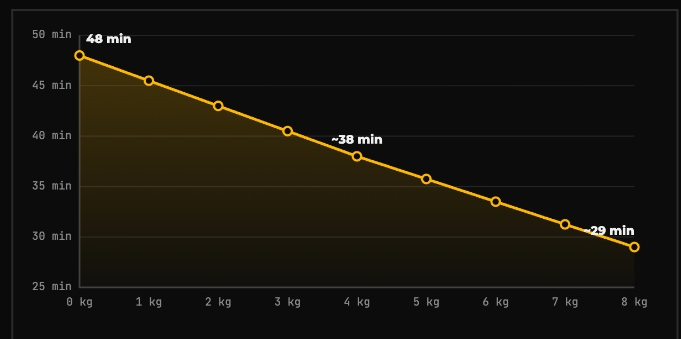
PAYLOAD CONNECTOR

# CARRIER H6 ELECTRIC.

The Carrier H6 Electric is a long-duration, heavy-lift hexacopter optimized for payload versatility across demanding mission profiles. Designed for rapid field deployment, the platform comes ready to plug-and-play.

Smart 12S 16,000 mAh lithium polymer batteries deliver 48 minutes of unloaded endurance and field-swap in seconds. Convertible in minutes to Hybrid EFI or Hydrogen power formats — one airframe, three power systems.

## PERFORMANCE FLIGHT TIME VS. PAYLOAD



TESTED AT 120 M AGL · 20 °C · NO WIND · 2-MIN LANDING RESERVE · ~15% REDUCTION AT CEILING

## 02 - CONFIGURATION HIGHLIGHTS


<p><b>01</b></p> <p><b>8 kg</b> MAX PAYLOAD</p>	<p><b>02</b></p> <p><b>48 min</b> MAX FLIGHT TIME</p>	<p><b>03</b></p> <p><b>Foldable</b> DESIGN</p>	<p><b>04</b></p> <p><b>12,000 ft</b> SERVICE CEILING</p>	<p><b>05</b></p> <p><b>Universal</b> PAYLOAD CONNECTOR</p>
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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"> <li>8" HD Touchscreen</li> <li>Real-Time Video · Low Latency</li> <li>MAVLink Native</li> <li>NDA A Compliant</li> </ul>	<h2>C-SROC</h2> <p>MILITARY / DEFENSE</p> <p>SOLDIER ROBOTIC CONTROLLER</p> <ul style="list-style-type: none"> <li>7" WXGA Glove-Touch</li> <li>MIL-STD-810-H · IP65</li> <li>Nett Warrior · AES-256 / STIG</li> <li>NDA A Section 848</li> </ul>	<h2>C-GCS</h2> <p>CONSOLE</p> <p>PROFESSIONAL MISSION COMMAND</p> <ul style="list-style-type: none"> <li>12-Channel Functionality</li> <li>Sunlight-Viewable Display</li> <li>2-Axis Payload &amp; Gimbal</li> <li>NDA A Compliant</li> </ul>

■ ALL STATIONS · MAVLINK NATIVE · NDA A SECTION 848

04 - SPECIFICATIONS

# TECHNICAL SPECIFICATIONS.

## A POWER SYSTEM

BATTERY CONFIGURATION	2x 12S1P 16,000 mAh LiPo	BATTERY SERVICE LIFE	~250 flight cycles
TOTAL CAPACITY	32,000 mAh	POWER REDUNDANCY	Parallel Battery Power
BATTERY VOLTAGE	44.4 V nominal (12S)	CONVERTIBLE POWER	Hybrid EFI / Hydrogen
POWER CONNECTOR	AS150U-F Anti-Spark	LOW BATTERY BEHAVIOR	Auto-Return to Home
BATTERY INSTALL	Quick-Release Plunger		

## B AIRFRAME & PERFORMANCE

FRAME TYPE	Hexacopter (Foldable)	PROPELLERS	Carbon Fiber w/ Aluminum Hub (29.2" x 9.2")
MAX HORIZONTAL SPEED	15 m/s · 33.6 mph	MAX TAKEOFF WEIGHT	25 kg · 55 lbs
MAX VERTICAL SPEED	2.5 m/s · 5.6 mph	EMPTY WEIGHT	9.8 kg · 21.5 lbs
MAX LEAN ANGLE	30°	DIMENSIONS (UNFOLDED)	Prop tip 2,373 mm · H 793 mm
SERVICE CEILING	12,000 ft AMSL	TRANSPORT CASE	903 x 903 x 808 mm
MAX FLIGHT TIME	48 min (no payload)	IP RATING	IP43
MOTORS	6x KV100 equivalent	OPERATING TEMP	-20 °C to 49 °C

## C COMMAND, CONTROL & SAFETY

FLIGHT CONTROLLER	Cube Orange (Custom ArduPilot)	GROUND CONTROL	Harris C-GCS / HereLink
RADIO FREQUENCIES	2.4 GHz ISM · 902-928 MHz	FAILSAFE	Auto RTH / Hover / Land
FLIGHT TRACKING	ADS-B Receiver	TELEMETRY	Real-Time Voltage & Current
IMU REDUNDANCY	Triple Redundant IMU	COMPLIANCE	NDAA Compliant

## D PAYLOAD INTERFACE

MOUNT TYPE	Dampened Modular Quick-Release	PAYLOAD POWER OUT	12 V · 24 V · 48 V Regulated
MOUNT COMPATIBILITY	Universal Payload Connector	DATA INTERFACE	UART / Ethernet / CAN / GPIO / USB
MAX PAYLOAD	8 kg · 17.6 lbs	COMPATIBLE PAYLOADS	LiDAR · Photogrammetry · Thermal/EO-IR · Multispectral · Custom
GPS	Dual RTK GNSS		



**HARRIS AERIAL**

CARRIER H6 ELECTRIC

H6E · PRODUCT BROCHURE

**FRONTIER PRECISION**  
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# H6 ELECTRIC.

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