协氢(上海)新能源科技有限公司

HiTS (Shanghai) Hydrogen Power Technology Co., Ltd.

Committed to Become

the World's Leading Provider of Hydrogen-Powered Drones & Air-Cooled Hydrogen Fuel Cell Systems

About HiTS

Air-Cooled Hydrogen Fuel Cells / Hydrogen-Powered Drones / Hydrogen Production & Storage

HiTS is **the original innovator to develop air-cooled hydrogen fuel cell systems** and **the first inventor of air-cooled hydrogen fuel cells for drones** in China. HiTS holds a leading R&D foundation and numerous patents in the field of air-cooled hydrogen fuel cells. HiTS has three major business divisions: **air-cooled hydrogen fuel cells**, **hydrogen-powered drones**, **and hydrogen production & storage**. Additionally, HiTS has established a drone R&D center in Shenzhen, a fuel cell R&D center in Chizhou, and three manufacturing bases located in Chizhou, Zaozhuang, and Zhangjiagang.

Shenzhen
Drone R&D Center

Chizhou
Fuel Cell R&D Center

Chizhou
Production Base

Zaozhuang
Production Base

Zhangjiagang
Production Base

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Air-Cooled Hydrogen Fuel Cell Products

The HiTS series is widely used across various product applications.

Compared to Lithium Batteries, Hydrogen Fuel Cells Offer 6 Key Advantages

- Long Endurance
- Cold Resistance
- Fast Refueling
- Light weight
- Cost Efficiency
- Eco-Friendly

HiTS Series has been certified by:

ISO9001 Quality Management System

ISO14001 Environmental Management System

ISO45001 Occupational Health Management System

EU CE

Specifications					
Model	HiTS-400	HiTS-1000	HiTS-3000	HiTS-5000	HiTS-10000
Application	Two-Wheelers	Two-Wheelers, Mobile Power Supply	Sightseeing Vehicles, Drones	Drones	Drones
Operating Temp.	-10 to 60℃	-10 to 60℃	-40 to 50℃	-40 to 50℃	-40 to 50℃
Lifespan	6000h	6000h	6000h	6000h	6000h
Weight	450g	900g	2400g	3800g	8000g
Peak Power	435W	1120W	3325W	5432W	11070W
Start-Up Time	<5s	<5s	<5s	<5s	<5s
Standard Endurance	130km	280km	3 hours (for drones)	3 hours (for drones)	3 hours (for drones)

Hydrogen-Powered Drone Series

Phoenix H25

90min Ultra-Long Endurance

-40°C Stable Flight Operation

7kg Customizable Payloads

50km Transmission Range

Phoenix H25 hydrogen-powered drone boasts optimized power and strong system integration, adapting to various mission equipment and sensors. It features an open data interface and communication protocol for seamless integration and data exchange. It is widely used in land surveying, forest security, wind power inspection, and maritime law enforcement.

Product Specifications

Category	Parameters
Model	Quadcopter
Wheelbase	1640 mm
Hydrogen Fuel Cell	3.6 Kw
Hydrogen Tank	12 L @ 35MPa
Empty Weight	26 Kg
Max Payload	7 kg
Max Endurance	90 min
Max Flight Altitude	3000 m
Max Flight Speed	18 m/s
Max Climb Rate	3 m/s
Max Descent Rate	2 m/s
Wind Resistance	Level 6
Operating Temp.	-40°C to 50°C
Hovering Accuracy ((GNSS Enabled)	Horizontal: ±1.5m; Vertical: ±0.5m;
Unfolded Dimensions	1250×1300×680 mm (L×W×H)
Folded Dimensions	860×660×790 mm (L×W×H)
Mission Payload	Electro-Optical Pod / Loudspeaker / Searchlight, etc.

Application fields

Land Surveying

Forest Security

Wind Power Inspection

Maritime Law Enforcement

Hydrogen-Powered Drone Series

Phoenix H25 (Extended Endurance Version)

140min Ultra-Long Endurance

-40°C Stable Flight Operation

5kg Customizable Payloads

50km Transmission Range

Phoenix H25 hydrogen-powered drone boasts optimized power and strong system integration, adapting to various mission equipment and sensors. It features an open data interface and communication protocol for seamless integration and data exchange. It is widely used in land surveying, forest security, wind power inspection, and maritime law enforcement.

Product Specifications

Category	Parameters
Model	Quadcopter
Wheelbase	1650 mm
Hydrogen Fuel Cell	3.6 Kw
Hydrogen Tank	19 L @ 35MPa
Empty Weight	28 Kgs
Max Payload	5 kg
Max Endurance	140 min
Max Flight Altitude	3000 m
Max Flight Speed	18 m/s
Max Climb Rate	3 m/s
Max Descent Rate	2 m/s
Wind Resistance	Level 6
Operating Temp.	-40°C to 50°C
Hovering Accuracy ((GNSS Enabled)	Horizontal: ±1.5m; Vertical: ±0.5m;
Unfolded Dimensions	1250×1330×720 mm (L×W×H)
Folded Dimensions	930×670×790 mm (L×W×H)
Mission Payload	Electro-Optical Pod / Loudspeaker / Searchlight, etc.

Application fields

Land Surveying

Forest Security

Wind Power Inspection

Maritime Law Enforcement

Hydrogen-Powered Drone Series

Atlas H100

2h Ultra-Long Endurance

-40°C Stable Flight Operation

40kg Customizable Payloads

50km Transmission Range

Altas H100 hydrogen-powered drone features advanced technology, strong load capacity, stable flight performance, and high-precision positioning. Its customizable payload system meets diverse application needs, making it ideal for curtain wall/solar panel cleaning, material hoisting, and forest firefighting.

Product Specifications

Category	Parameters
Model	Quadcopter
Wheelbase	2525 mm
Hydrogen Fuel Cell	7 kW ×2
Hydrogen Tank	19 L ×2 @ 35 MPa
Empty Weight	76 kg
Max Payload	40 kg (Customized Version: 60 kg)
Max Endurance	2 h
Max Flight Altitude	3000 m
Max Flight Speed	18 m/s
Max Climb Rate	3 m/s
Max Descent Rate	2 m/s
Wind Resistance	Level 6
Operating Temp.	-40°C to 50°C
Hovering Accuracy ((GNSS Enabled)	Horizontal: ±1.5m; Vertical: ±0.5m;
Unfolded Dimensions	1890×2050×1200 mm (L×W×H)
Folded Dimensions	1240×1020×1280 mm (L×W×H)
Mission Payload	Cleaning Module / Hoisting Module / Logistics Box, etc.

Application fields

Curtain Wall Cleaning

Solar Panel Cleaning

Material Hoisting

Forest Firefighting

Hydrogen-Powered Drone Series

COMING SOON

Atlas H200

Atlas H400

Application Scenarios

Model	Fuel Cell Power	Max Takeoff Weight	Payload Capacity	Endurance	Flight Altitude	Operating Temperature	Data Collection	Hydrogen Tank Pressure	Wheelbase	Propulsion
Atlas H200	28 kW	200 kg	80 kg	2 h	3000 m	-40℃ to 50℃	Supports multi-sensor data collection system	35 MPa	3500 mm	6-Axis, 6-Rotor
Atlas H400	56 kW	400 kg	200 kg	2 h	3000 m	-40℃ to 50℃	Supports multi-sensor data collection system	35 MPa	4200 mm	6-Axis, 12-Rotor

Hydrogen-Powered Drone Series

Hydrogen VTOL HF150

Modular Design
Quick-release, tool-free, fast deployment

High Safety & Efficiency
Redundant multi-sensor technology / full autonomy flight

Versatile Payloads
30 kg capacity, compatible with various mission equipment

Superior Flight Performance
Flight control, navigation, auto-return on data link failure

Hydrogen VTOL HF150 drone features long flight time, high speed, stable structure, and high reliability. It supports a 30 kg payload with various optional mission equipment, suitable for high-altitude continuous flight. Ideal for logistics transportation, reconnaissance & Surveillance, and maritime patrol missions.

Product Specifications

Category	Parameters
Model	VTOL Fixed-Wing
Wingspan	6300 mm
Dimensions	3300×6300×1200 mm (L×W×H)
Hydrogen Fuel Cell	3.6 kW *2
Hydrogen Tank	40 L ×2 @ 35 MPa (Standard)
Empty Weight	120 kg
Max Payload	30 kg
Endurance	>6 h
Max Flight Altitude	3000 m
Communication Range	30 km (Optional 50 km / 100 km Communication Link)
Max Flight Speed	160 km/h
Cruise Speed	110-125 km/h
Max Climb Rate	5 m/s
Max Descent Rate	3 m/s
Wind Resistance	Level 6
Operating Temperature	-40℃~50℃
Positioning Accuracy (GNSS)	Horizontal: ±1.5 m, Vertical: ±0.5 m
Mission Payloads	EO/IR Gimbal, Cargo Pods, etc.

Application fields

Logistics Transportation

Reconnaissance & Surveillance

Maritime Patrol

Lithium Battery Drone Series

Dual-Lens
云台相机

L2E

Iris L2 Series

Triple-Lens
云台相机

L2T

Iris L2 series drones feature a streamlined, compact, and portable design with powerful performance. Equipped with a robust power system and comprehensive industry applications, they offer autonomous flight with precise obstacle detection and automatic return-to-home when signals weaken or are lost. Their excellent obstacle avoidance ensures a reliable flight experience, adapting flexibly to complex environments and various operational needs.

Product Specifications

Category	Parameters
Wheelbase	486 mm
Weight / Max Takeoff Weight	1750 g / 2300 g
Max Flight Time	45 min
Max Ascent / Descent Speed	8 m/s; 6 m/s
Wind Resistance	Level 6
Max Flight Altitude	6000 m
Communication Range	15km (FCC); 8km (CE/SRRC/MIC)
Wide-Angle Visible Light Camera	1/1.49" CMOS, 50 MP
Telephoto Visible Light Camera	1/2" CMOS, 48 MP Optical Zoom: 10x; Hybrid Zoom: 160x
Infrared Camera (L2T)	640×512 @30fps
Hovering Accuracy (RTK)	Vertical: ±1.0 cm + 1 ppm Horizontal: ± 1cm + 1 ppm

Application fields

Park Patrol

Power Line Inspection

Event Security

Aerial Inspection

Lithium Battery Drone Series

Iris L7

63min Long Endurance

Level 7 Wind Resistance

3kg Max Payload

15km Transmission Range

Iris L7 is a newly launched lightweight industrial flagship drone developed by HiTS. It integrates multiple cutting-edge drone system technologies, making significant breakthroughs in stability, autonomy, and intelligence. Equipped with advanced multi-drone collaborative networking technology, it enables seamless smart communication between multiple drones and control devices, significantly enhancing operational efficiency.

Product Specifications

Category	Parameters
Model	Quadcopter
Wheelbase	725 mm
Max Takeoff Weight	7 kg
Max Payload	3 kg
Max Flight Time	63 min
Communication Range	15 km
Max Flight Altitude	5000 m
Max Flight Speed	23 m/s
Max Climb Rate	4 m/s
Max Descent Rate	3 m/s
Wind Resistance	Level 7
Protection Level	IP45
Operating Temperature	-20°C to 50°C
Positioning Accuracy (GNSS)	Horizontal: ±1.5 m, Vertical: ±0.5 m
Positioning Accuracy (Visual)	Horizontal: ±0.3 m, Vertical: ±0.3 m
Obstacle Avoidance System	Omnidirectional Obstacle Avoidance
Unfolded Dimensions (Without Propellers)	549×592×424 mm (L×W×H))
Folded Dimensions (With Landing Gear)	347×367×424 mm (L×W×H)

Application fields

Smart City

Power Line Inspection

Event Security

Forest Security

Lithium Battery Drone Series

Phoenix L25

45min Long Endurance

-20℃ Stable Flight Operation

10kg Customizable Payloads

50km Transmission Range

Phoenix L25 drone has an optimized power system with strong integration capabilities, supporting various mission equipment and sensors. It features open data interfaces and communication protocols for easy integration and data exchange. Widely used in land surveying, forest security, wind power inspection, and maritime patrol.

Product Specifications

Category	Parameters
Model	Quadcopter
Wheelbase	1640 mm
Power Battery	12S 22Ah (Standard)
Max Takeoff Weight	25 kg
Max Payload	10 kg
Max Flight Time	45 min
Communication Range	15 km (Optional 50 km Link)
Max Flight Altitude	3000 m
Max Flight Speed	18 m/s
Max Climb Rate	3 m/s
Max Descent Rate	2 m/s
Wind Resistance	Level 6
Operating Temperature	-20℃ to 50℃
Hovering Accuracy (GNSS Enabled)	Horizontal: ±1.5 m; Vertical: ±0.5 m
Unfolded Dimensions	1250×1300×680 mm (L×W×H)
Folded Dimensions	860×660×790 mm (L×W×H)
Mission Payloads	EO/IR Gimbal, Loudspeaker, Searchlight, etc.

Application fields

Land Surveying

Forest Security

Wind Power Inspection

Maritime Patrol

Lithium Battery Drone Series

Atlas L100

30min Long Endurance

-20℃ Stable Flight Operation

60kg Customizable Payloads

50km Transmission Range

Atlas L100 drone uses advanced technology and materials, offering strong load capacity, stable flight performance, and high-precision positioning. Its customizable payload system meets diverse application needs. Widely used in curtain wall/solar panel cleaning, logistics hoisting, and forest firefighting.

Product Specifications

Category	Parameters
Model	Quadcopter
Wheelbase	2310 mm
Power Battery	18S 30Ah
Max Takeoff Weight	100 kg
Max Payload	60 kg (Dual-Battery Version: 46 kg)
Max Flight Time	30 min (Customizable Dual-Battery Version: 45 min)
Communication Range	15 km (Optional 50 km Link)
Max Flight Altitude	3000 m
Max Flight Speed	18 m/s
Max Climb Rate	3 m/s
Max Descent Rate	2 m/s
Wind Resistance	Level 6
Operating Temperature	-20℃ to 50℃
Hovering Accuracy (GNSS Enabled)	Horizontal: ±1.5 m; Vertical: ±0.5 m
Unfolded Dimensions	1740×1870×820 mm (L×W×H)
Folded Dimensions	1150×870×950 mm (L×W×H)
Mission Payloads	Cleaning Module, Hoisting Module, Logistics Box, etc.

Application fields

Curtain Wall Cleaning

Solar Panel Cleaning

Material Hoisting

Forest Firefighting

Lithium Battery Drone Series

VTOL Fixed-Wing LF12

Modular Design
Quick-release, tool-free, fast deployment

Enhanced Performance
High-performance control, EMI and vibration resistant

High Reliability
Excellent aerodynamics, low noise, easy maintenance

Fully Automatic
One-key takeoff/landing, safe and convenient

VTOL (Electric Vertical Takeoff and Landing) Fixed-Wing LF12 adopts a modular design and integrated operating system with fully automatic one-key takeoff and landing. It simplifies the user operation process, suitable for single-person operations. Therefore, it can be applied to land surveying, search & reconnaissance, maritime patrol, and power line inspection.

Product Specifications

Category	Parameters
Model	VTOL Fixed-Wing
Wingspan	2500 mm
Fuselage Length	1450 mm
Power Source	Lithium Battery
Takeoff and Landing Method	Vertical Take-Off and Landing (VTOL)
Max Takeoff Weight	12 kg
Max Payload	2 kg
Max Endurance	>2 h
Max Flight Altitude	3000 m
Communication Range	15 km (Optional 50 km Link)
Flight Speed	65 - 100 km/h
Economic Cruise Speed	70 - 90 km/h
Max Climb Rate	5 m/s
Max Descent Rate	3 m/s
Wind Resistance	Level 6
Operating Temperature	-20℃ to 50℃
Positioning Accuracy (GNSS)	Horizontal: ±1.5m; Vertical: ±0.5m;
Mission Payloads	EO/IR Gimbal, Mapping Equipment, etc.

Application fields


Land Surveying


Search & Reconnaissance


Maritime Patrol


Power Line Inspection

Lithium Battery Drone Series

VTOL Fixed-Wing LF30

Modular Design

Quick-release, tool-free, fast deployment

High Safety & Efficiency

Redundant multi-sensor technology / full autonomy flight

Versatile Payloads

10 kg capacity, compatible with various mission equipment

Superior Flight Performance

Flight control, navigation, auto-return on data link failure

VTOL LF30 drone features long flight time, high speed, stable structure, and high reliability. It supports a 10 kg payload with various optional mission equipment, suitable for high-altitude continuous flight. Therefore, it can be applied to land surveying, search & reconnaissance, maritime patrol, and power line inspection.

Product Specifications

Category	Parameters
Model	VTOL Fixed-Wing
Wingspan	3600 mm
Fuselage Length	1820 mm
Power Source	Lithium Battery
Takeoff and Landing Method	Vertical Take-Off and Landing (VTOL)
Max Takeoff Weight	30 kg
Max Payload	10 kg
Max Endurance	>2 h
Max Flight Altitude	3000 m
Communication Range	15 km (Optional 50 km Link)
Flight Speed	80 - 120 km/h
Economic Cruise Speed	80 - 95 km/h
Max Climb Rate	5 m/s
Max Descent Rate	3 m/s
Wind Resistance	Level 6
Operating Temperature	-20℃ to 50℃
Positioning Accuracy (GNSS)	Horizontal: ±1.5m; Vertical: ±0.5m;
Mission Payloads	EO/IR Gimbal, Mapping Equipment, etc.

Application fields

Land Surveying

Search & Reconnaissance

Maritime Patrol

Power Line Inspection

Lithium Battery Drone Series

Racing Drone C7

High-Speed & Agile
Max flight speed up to 215 km/h

Compact Design
Highly modular design, light weight structure

Multiple Flight Modes
Supports sport, stabilization, and altitude hold

Modular Components
Expandable with various accessories

The racing drone features high speed, agility, a compact frame, simple structure, and low cost. After modification, pilots can operate it using custom VR goggles, providing real-time situational awareness and responsive control. It is widely used in aerial cinematography, racing competitions, and integrated recon and strike.

Product Specifications

Category	Parameters
Model	Quadcopter
Frame Material	Carbon Fiber + Aerospace Aluminum
Power Source	Lithium Battery
Battery Pack	6S 6500mAh
Max Payload	2 kg
Empty Weight (Excluding Battery)	0.42 kg
Max Endurance	30 min
Max Flight Altitude	5000 m
Max Flight Speed	215 km/h
Video Transmission Frequency	5.8 GHz
Video Transmission Range	3 km to 5 km
Video Transmission Latency	20 ms
Adjustable Transmission Power	25 mW – 2500 mW
Wind Resistance	Level 6
Operating Temperature	-20°C to 50°C

Application fields

Aerial Cinematography

Racing Competitions

Integrated Recon and Strike

Lithium Battery Drone Series

Racing Drone C10

High-Speed & Agile
Max flight speed up to 186 km/h

Compact Design
Highly modular design, light weight structure

Multiple Flight Modes
Supports sport, stabilization, and altitude hold

Modular Components
Expandable with various accessories

The racing drone features high speed, agility, a compact frame, simple structure, and low cost. After modification, pilots can operate it using custom VR goggles, providing real-time situational awareness and responsive control. It is widely used in aerial cinematography, racing competitions, and integrated recon and strike.

Product Specifications

Category	Parameters
Model	Quadcopter
Frame Material	Carbon Fiber + Aerospace Aluminum
Power Source	Lithium Battery
Battery Pack	6S 8000mAh
Max Payload	3.5 kg
Empty Weight (Excluding Battery)	0.78 kg
Max Endurance	30 min
Max Flight Altitude	5000 m
Max Flight Speed	186 km/h
Video Transmission Frequency	5.8 GHz
Video Transmission Range	3 km to 5 km
Video Transmission Latency	20 ms
Adjustable Transmission Power	25 mW – 2500 mW
Wind Resistance	Level 6
Operating Temperature	-20°C to 50°C

Application fields

Aerial Cinematography

Racing Competitions

Integrated Recon and Strike

Payloads & Functional Attachments


Gimbal Camera


Dual-Lens Gimbal


Quad-Lens Gimbal


LiDAR


Firefighting Module


Cleaning Module

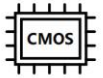

Drop Module


Hoisting Module

Payload Introduction

To support applications like inspection, logistics transportation, emergency rescue, and firefighting, HiTS has developed various practical mounting devices. The rich gimbal control interfaces are compatible with many third-party products. Customized development can be made to meet customers' specific needs, offering integrated, full-scenario solutions.

7-inch high-definition screen



Qualcomm 8-core CPU 4G RAM, 64G storage


Dual controls remote relay

15KM 1080P dual-channel image transmission

Handheld Ground Station

The new generation of industrial-grade handheld ground station features a 7-inch high-definition, high-brightness display, a dual-channel full-HD digital transmission system expandable up to 50 km, and a high-end Android configuration with 4GB RAM and 64GB storage. Additionally, it supports optional dual-control mode and remote relay control. With rich interfaces and powerful expandability, it can be widely applied in UAVs, unmanned vehicles, unmanned ships, and intelligent robotics.

THANKS

The World's Leading Provider of

Air-Cooled Hydrogen Fuel Cell Systems

Hydrogen-Powered Drones

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