

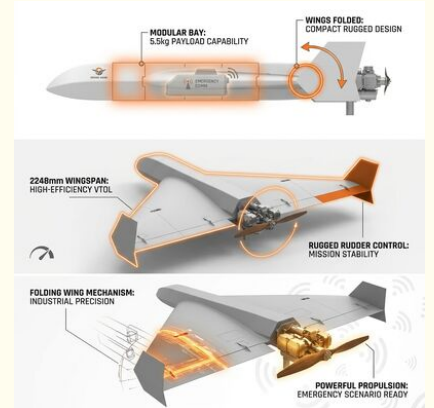


Electric / Hybrid S.06 VTOL Fixed-Wing Special Mission VTOL UAV 2248mm Wingspan 5.5kg Payload 5206m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, RoHS, ISO
- Model Number: S.06
- Minimum Order Quantity: 1
- Price: \$15,000-\$120,000
- Packaging Details: Custom flight case with shock-absorbing foam inserts and waterproof seal
- Delivery Time: 58 working days
- Payment Terms: T/T
- Supply Ability: 30



Product Specification

- Model: S.06
- Wingspan: 2248 Mm
- Length: 2437 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Electric / Hybrid
- Payload: 5.5 Kg
- Take-off Mass: 45.5 Kg
- Cruise Speed: 50 M/s
- Endurance: 100 Min
- Max Range: 375 Km
- Altitude: 5206 M
- Protection Degree: IP65
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 4 / Cruising Level 7
- Launch Method: Catapult Launch

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S.06 Special Mission VTOL UAV

The **S.06** is a high-performance electric / hybrid-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Emergency Communication**. Featuring a 2248mm wingspan and 5.5kg payload capacity, this UAV delivers exceptional 100-minute endurance and 375km operational range. The entire airframe is constructed from **aviation-grade carbon fiber composite**, ensuring an optimal balance of structural strength and lightweight portability.

Equipped with an advanced flight control system and modular payload architecture, the S.06 supports rapid mission reconfiguration. Its VTOL capability eliminates the need for runways, enabling deployment from confined spaces. The IP65 protection rating ensures reliable operation in challenging environmental conditions.





Key Features

Advanced VTOL Capability – Vertical takeoff and landing without runway infrastructure, deployable from ships, rooftops, or compact terrain

Full Carbon Fiber Airframe – Aerospace-grade composite construction for 31.8kg lightweight design with industry-leading strength-to-weight ratio

Electric / Hybrid Power System – Optimized for 100min continuous flight with efficient fuel/energy management and redundant safety protocols

5.5kg Payload Capacity – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

375km Operational Range – Beyond-line-of-sight capability with secure datalink and autonomous return-to-home fail-safe

IP65 Environmental Protection – Reliable operation in rain, dust, and extreme temperatures from -20°C to 50°C

Specifications

Model	S.06
Wingspan	2248 mm
Length	2437 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Electric / Hybrid
Payload	5.5 kg
Maximum Takeoff Weight	45.5 kg
Cruise Speed	50 m/s
Endurance	100 min

Max Range	375 km
Service Ceiling	5206 m
Protection Degree	IP65
Launch Method	Catapult Launch

FAQ

▼ What missions is the S.06 best suited for?

The S.06 is optimized for **Emergency Communication** operations, with its 5.5kg payload and 375km range making it ideal for extended-duration missions requiring reliable beyond-line-of-sight communication.

▼ Can the payload configuration be customized?

Yes, the modular payload bay supports rapid swapping between EO/IR gimbals, LiDAR scanners, multispectral cameras, SAR systems, and communication relay equipment based on mission requirements.

▼ How does the VTOL transition work?

The S.06 uses a seamless transition flight controller that automatically manages the conversion from vertical hover to fixed-wing cruise flight, requiring no manual pilot intervention during transition.

▼ What training is required to operate this UAV?

Basic operator training typically takes 3-5 days, covering mission planning, pre-flight checks, emergency procedures, and data post-processing. Advanced payload operation training is available separately.



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