

GOVERNMENT OF INDIA
DIRECTORATE GENERAL OF CIVIL AVIATION
DRONE DIRECTORATE

TYPE CERTIFICATE

No.: T0725000003H

This certificate, issued to ***M/s Ubifly Technologies Private Limited*** certifies that the Unmanned Aircraft System

"ATVA-1"

its technical specifications and operating limitations for which are contained in Datasheet No ***T0725000003H*** *dated* ***4th July, 2025*** *is of proper design, material, specification, construction and performance for safe operation based on the recommendation of* ***BUREAU VERITAS (INDIA) PRIVATE LIMITED*** *as required by the Certification Scheme for Unmanned Aircraft Systems notified by the Ministry of Civil Aviation vide S.O. 347(E) dated the 26th of January, 2022.*

This Type Certificate is issued under the provision of Rule 8 and Rule 9 (3) of the Drone Rules 2021.

This certificate shall remain valid until suspended or cancelled.

Date: 4th July, 2025 **Director General of Civil Aviation**

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Technical Specifications Of M/S Ubifly Technologies Private Limited's UAS Model ATVA-1

Manufacturer Name	Ubifly Technologies Private Limited
Address	First Floor, No.1FA,, Kanagam Road, Taramani, , Chennai, Tamil Nadu, , Chennai , TAMIL NADU , 600113 , INDIA
UAS Model Name	ATVA-1
Description	ATVA-1 is a small class Hybrid RPAS UAS Having 4 Lift motor and 01 Cruise motor for Logistics payload Delivery upto 2 Kg
UAS Details	
Category/Sub-Category	Hybrid (RPAS)
Class	SMALL
Maximum all-up-weight(including payload) in kg	18.0
Overall dimensions (l x b x h) in mm	1971.0 x 1728.0 x 483.0
Payload Details	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	Payload Bay dimension 230 x 199 x 124 mm capable of securing cargo articles with maximum payload capacity of 2kg
Variable Load/Consumables (Like fluid etc., if any)	Variable cargo Payload for logistic Application (up to 2 kg)
Power plant Details	
Engine details (Manufacturer details, Model No.)	NA , NA
Engine/Motor	04 -T-Motor V605 KV210 BLDC motor (lift) & 01-T-motor AT7215 KV220 BLC motor(cruise)
Power Rating	3200 watts
No. of Engines/ Motors	5
Total fuel capacity (kg)/ Battery capacity (mAh)	30000.0 mAh
Propeller details (Diameter, Max RPM)	Diameter - 22 inches , Pitch - 74 , Max RPM - 6707
Equipment Details	
GNSS	Available
Autonomous Flight Termination System or Return Home (RH)	Not Available||Available
Flashing anti-collision strobe lights	Available
RFID and GSM SIM Card	RFID- Not Available||GSM SIM Card- Not Available
Flight control Module	Available

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SSR transponder (Mode ‘C’ or ‘S’) or ADS-B OUT equipment (if applicable)	Not Available||Not Available
Barometric equipment (with capability for remote sub-scale setting) (if applicable)	Not Available
Geo-fencing Capability	Available
Detect and Avoid Capability (if applicable)	Not Available
Remote Pilot Station	
Ground Control Station Model No.	Amber GCS software
GCS App. Version	v0.1.0
C2 Link	
Equipment details	Herelink Air Unit (Model No. HX4-06210) and Herelink Ground Unit (Model No. HX4-06211)
Frequency Band	2.412-2.462 GHz and 2.409-2.459 GHz
ETA issued by WPC Wing, DoT	Details- 1. HERELINK Air unit: ETA-SD-20230201593 dated 20-02-23 2. HERELINK Ground unit: ETA-SD-20230201857 dated 27-02-23
Performance Details	
Maximum Endurance (hr/m)	36.32 minutes
Maximum Range (in km)	1.5 Km
Maximum Speed (in m/s)	30.0 m/sec
Maximum Height attainable/ Maximum Ceiling Height (in ft)	393.72 ft
Operating Altitude (in ft)	393.72 ft
Operational Envelope	VLOS | Day and Night
Engine limits (Maximum RPM) / Max. Battery Temperature (in deg C)	55.0 deg C
Propeller limits (Maximum)	lift - Max RPM -6707 and for Cruise - Max RPM -9032.
Documents / Manuals	
Manufacturer’s Operating Manual (as applicable)	ATVA-1 Flight Manual Ver. Rev. 5 dated 10th April, 2025
Manufacturer’s Maintenance guidelines (as applicable)	ATVA-1 Maintenance Manual Ver. Rev. 6 dated 10th April, 2025
Maintenance Inspection Schedule/Overhaul interval	ATVA-1 Maintenance Manual Ver. Rev. 6 dated 10th April, 2025
Maintenance Log Book	ATVA-1 Maintenance Logbook Ver. Rev. 3 dated 27th December, 2024

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Flight Log Book	ATVA-1 Operational Logbook Ver. Rev. 0 dated 27th December, 2024
User Guide/ Self Explanatory Information Booklet for end users	ATVA-1 Flight Manual Ver. Rev. 5 dated 10th April, 2025
Intended Applications	
Intended Applications	ATVA-1 is a Hybrid UAV for Logistics Application with variable cargo payload (upto 2kg) under VLOS Operation

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Limitations & Conditions to Ubifly Technologies Private Limited for manufacturing of UAS Model ATVA-1

1. **M/ s Ubifly Technologies Pvt Ltd, Chennai** henceforth referred as manufacturer in this documents shall comply with the applicable Rules, Regulations & Requirements issued from time to time. The manufacturer shall comply with mandatory safety features (if any) as and when mandated by Ministry of Civil Aviation/DGCA.

2. Design documents and manuals submitted shall be frozen and controlled. Any changes effecting to the Type Certificate/ Datasheet, the manufacturer shall approach through Authorised Testing Entity for up- dation of the Type Certificate/ Data Sheet issued there under.

3. Manufacture shall be responsible for all UAS Model **“ ATVA-1 ”** produced by them conforms to this type certificate & datasheet and shall issue a certificate of conformity for each UAS produced.

4. Manufacturer shall ensure that their UAS is not tampered at the time of sale and also at the time of maintenance. Manufacturer shall monitor the same and notified to DGCA as and when required.

5. Manufacturer shall maintain list of their vendors, bill of materials, inventory of UAS including buyer details with configurations sold to them etc. and access to the same shall be provided to DGCA during surveillance and as & when requested for. It shall be the responsibility of the manufacturer to ensure that their UAS are sold to bonafide customers.

6. Manufacturer shall ensure that operations is restricted to Visual Line of Sight, for day and night operations and within the operations/ performance limitations specified in the frozen manuals.

7. Manufacturer shall affix fireproof plate for indicating UIN, Manufacturer’s name, model no, Date of Manufacturing. and serial no. in all the UAS manufactured before it is transferred to the buyer.

8. Manufacturer shall intimate DGCA about any violations, defects, faults, malfunctions, incidents and accidents involving the subject UAS model quarterly and as when sought for.

9. UAS model " ATVA-1 " can be used for intended applications only. Manufacturer shall ensure that the drone is flown away (30m) from uninvolved people and not flown over the crowd/ uninvolved people. The manufacturer shall be responsible for ensuring applicable conditions and educate end users accordingly.

10. The endurance of UAS model **" ATVA-1 ”** with full payload (2 Kg) is 36 mins and 32 seconds and the endurance with empty payload bay is 38 mins and 3 seconds. The details for lift propeller are Diameter:-22 inch, Pitch:- 7.4 inches , Max RPM -6707 and for Cruise propeller are Diameter:-16 inch, Pitch:- 16 inches , Max RPM -9032.. This note is included in the "Limitations & Conditions" section of TCDS due to current limitation in the digital sky platform.

11. Manufacturer shall be responsible for rights related to design and development of the UAS model **“ ATVA-1 ”** and DGCA shall not be party to any dispute arising due to proprietary right issues.

12. Manufacturer shall abide by the IT Act 2000 and any subsequent revision.

13. In case of violation of any of the above mentioned conditions and/ or operating requirements & restrictions specified in this Type Certificate, penal action shall be initiated in line with the Drone Rules, 2021 and other Rules/ Regulations issued from time to time.

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