



TYPE-CERTIFICATE DATA SHEET

NO. EASA TC NO. EASA.A.633

for
ELIXIR

Type Certificate Holder
ELIXIR AIRCRAFT

6 rue Aristide Berges
17180 Perigny
FRANCE

For models: Elixir



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SECTION A: MODEL A DESIGNATION

A.I. General

1. Type/ Model/ Variant
 - 1.1 Type: ELIXIR
 - 1.2 Model: Elixir
2. Airworthiness Category: CS-23, Normal category
3. Manufacturer
ELIXIR AIRCRAFT
6 rue Aristide Berges
17180 Perigny
FRANCE
4. EASA Type Certification Application Date 17 May 2016
7. EASA Type Certification Date 20 March 2020

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: May 2016
2. Airworthiness Requirements
EASA CS-23, Certification Specifications for Normal, Utility, Aerobatic and Commuter Category Aeroplanes, Amendment 5
Level 1 Aircraft (CS-VLA amendment 1 as AMC)
3. Special Conditions
SC-ELA.2015-01, i2 – Lithium Battery Installations
4. Exemptions
None
5. (Reserved) Deviations
None
6. Equivalent Safety Findings
None
7. Environmental Protection
EASA CS-36, Certification Specification for Aircraft Noise, Amendment 3



A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition

2. Description:

The airplane is a side-by-side single engine two-seater. It has a partially elliptical cantilever low wing configuration with flaps and ailerons. The tail has a T configuration. The tricycle landing gear is fixed.

3. Equipment: The ELIXIR aeroplane is equipped with an airframe parachute system.

4. Dimensions: Wing span.....8.48 m
Height.....1.80 m
Length.....6.06 m
Wing area.....7.9 m²

5. Engine

5.1. Model: ROTAX 912iSc 3 Sport

5.2 Type Certificate: The ROTAX 912iSc is certified by EASA under TC EASA.E.121 TCDS No. E.121 issue 11 dated 11 Oct. 2019.

5.3 Limitations: Refer to the latest version of TCDS EASA.E.121

6. Load factors: Flaps up n..... +4
Flaps up n..... -2
Flaps down n.... +2
Flaps down n..... -0

7. Propeller

7.1 Model: MTV-34-1-A/156-200

7.2 Type Certificate: The MTV-34-1-A/156-200 is certified by EASA under Type Data Sheet number TCDS No. P.049 issue 01 dated of 15 January 2015

7.3 Number of blades: 3

7.4 Diameter: 1.56m

7.5 Sense of Rotation: clockwise, seen from pilot's point of view

8. Fluids

8.1 Fuel: See AFM section 2.12.2

8.2 Oil: See Operators Manual OM-912 i
See Service Instruction SI-912i-001

8.3 Coolant: See AFM section 2.14.2

9. Fluid capacities

9.1 Fuel: Total capacity: 94L
Usable capacity: 90L

9.2 Oil: Min. sump capacity: 3.05 L
Max. sump capacity: 3.5 L

9.2 Coolant: Capacity: 2.5 L

10. Air Speeds (indicated)



Vs0: 83 km/h (44.8 kts)
Vs: 105 km/h (56.7 kts)
Vfe: 164 km/h (88.6 kts)
Va: 215 km/h (116.1 kts)
Vc: 248 km/h (133.9 kts)
Vne: 290 km/h (156.6 kts)

Note : IAS = CAS + 2 km/h on the whole flight envelope and flap settings

- 11. Flight Envelope: Max. operating altitude above MSL: 3 048 m / 10 000 ft
- 12. Approved Operations Capability: VFR-Day operations only
- 13. Maximum Take Off Mass: 544kg
- 14. Centre of Gravity Range: 23% -36% MAC

- 15. Datum: The datum line is located 430 mm behind the firewall.
- 16. Control surface deflections: Refer to AMM
- 17. Levelling Means: Refer to AMM
- 18. Minimum Flight Crew: One (1) pilot
- 19. Maximum Passenger Seating Capacity: One (1) passenger
- 20. Baggage/ Cargo Compartments: At the back of the seats, weight limitation : refer to AMM
- 21. Wheels and Tyres: Main wheel size 5.00-5
Nose wheel size 11x4.00-5
- 22. (Reserved)



A.IV. Operating and Service Instructions

1. Flight Manual: “LXR-AI-Rec-Manual-Aeroplane Flight Manual” issue R01 dated 13.03.2020 or later EASA approved revisions

2. Maintenance Manual: “LXR-AI-REC-Manual-Aircraft Maintenance Manual” remains a Post TC open item.

A.V. Eligible Serial Numbers: SN 02 and following (see Note 1)

A.VI. Notes

Note 1: Before the first issuing of a CofA (Certificate of Airworthiness) and entry into service, Post TC open items need to be closed. At this stage this note will be removed.



SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

II. Type Certificate Holder Record

None

III. Change Record

Issue	Date	Changes	TC Issue No. & Date
01	20 March 2020	Initial Issue	Issue 01, 20 March 2020

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