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# TYPE-CERTIFICATE DATA SHEET

NO. EASA.A.633

**for**  
ELIXIR

**Type Certificate Holder**  
ELIXIR AIRCRAFT

Rue du Jura  
17000 La Rochelle  
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  
Rue du Jura  
17000 La Rochelle  
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, Amdt. 5, dated 29 March 2017  
EASA CS-ACNS, Initial issue, dated 01 January 2014

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 See TCDSN EASA.A.633



### **A.III. Technical Characteristics and Operational Limitations**

1. Type Design Definition ELIXIR Master Document List LXR-AI-REC-DOC-MASTER DOCUMENT LIST.R02 or later approved revision

2. Description:

The airplane is a side-by-side 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 aeroplane is equipped with an airframe parachute.

4. Dimensions: Wing span.....8.48 m  
Height..... 1.80 m  
Length .....6.06 m  
Wing area... ..7.9 m<sup>2</sup>

5. Engine

5.1. Model: ROTAX 912iSc3 Sport

5.2 Type Certificate: The ROTAX 912iSc3 Sport 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 No. 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/156-203

7.2 Type Certificate: The MTV-34-1-A/156-203 is certified by EASA under TC EASA.P.049 TCDS No. P.049 issue 02 dated of 13 Dec. 2018.

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: refer to applicable AFM section 2-Limitations

8.2 Oil: refer to applicable AFM section 2-Limitations

8.3 Coolant: refer to applicable AFM section 2-Limitations

9. Fluid capacities

9.1 Fuel: Total capacity: 104L  
Usable capacity: 100L

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

9.3 Coolant: Capacity: 2.5 L

10. Air Speeds (indicated)

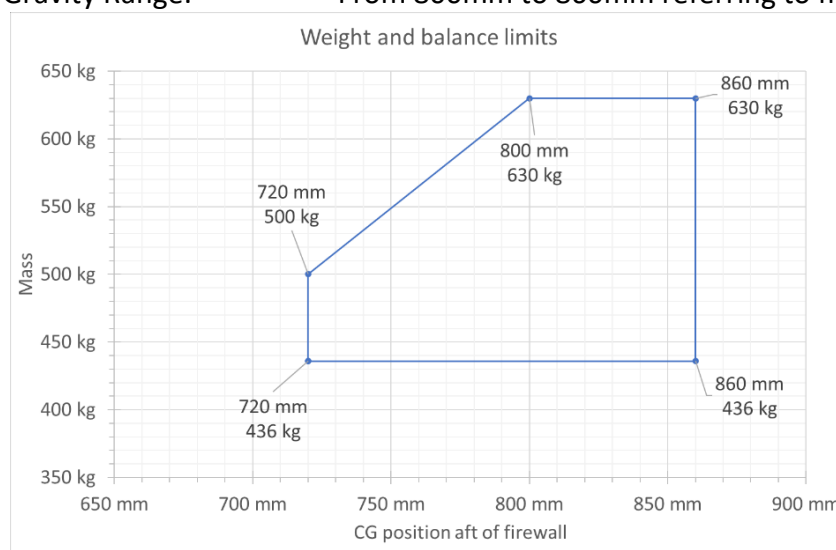
Vs0: 85 km/h (46 kts)  
Vs: 113 km/h (59 kts)  
Vfe: 164 km/h (88 kts)  
Va: 224 km/h (121 kts)



Vc: 244 km/h (131 kts)  
Vne: 290 km/h (156 kts)

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

11. Flight Envelope: Max. operating altitude above MSL: 4877m / 16 000ft  
12. Approved Operations Capability: Day-VFR and Night-VFR operations only (refer to AFM for aeroplanes with Night-VFR capability)  
13. Maximum Masses: 630 kg  
14. Centre of Gravity Range: From 800mm to 860mm referring to firewall



15. Datum: The datum line is 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 AFM  
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: Refer to Service information Letter LXR-AI-REC-DOC-SIL-633-004 - LIST OF TECHNICAL DOCUMENTATION  
2. Maintenance Manual: Refer to Service information Letter LXR-AI-REC-DOC-SIL-633-004 - LIST OF TECHNICAL DOCUMENTATION

#### Notes

Structure is qualified up to 54°C (129.2°F). Operation of the aircraft with structure temperatures (composite) above 54°C (129.2°F) is not permitted.



## SECTION ADMINISTRATIVE

### I. Acronyms & Abbreviations

None

### 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
02	22 February 2022	Update of manufacturer address, change of propeller model, increase of MTOM, update of air speeds, removal of note on post TC items, addition of structural temperature limitation. Editorial updates.	Issue 02, 25 May 2021
03	06 July 2022	Editorial clarification of Certification Basis	/
04	23 March 2023	Addition of night VFR capability Editorial changes	/
05	19 October 2023	Editorial change of the §A.III.8 - Fluids Update of section §A.IV "Operating and Service Instructions" , page 6	/

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