

# Civil Aviation Authority United Kingdom



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## TYPE-CERTIFICATE DATA SHEET

**UK.TC.A.00124**

for  
**Elixir**

**Type Certificate Holder**

Elixir Aircraft  
Rue du Jura  
17000 La Rochelle  
France

Model(s): Elixir  
Issue: 2  
Date of issue: 12 January 2026

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## Section 1 Elixir

### I. General

This Type-Certificate Data Sheet (TCDS) is the concise definition of the type-certificated product accepted and or approved by the CAA in the UK for the affected types and models. This TCDS includes:

1. Details of the type design that affect the TCDS that have been approved or accepted by the CAA in the UK since 01 January 2021.
2. Details of the type design that affected the TCDS and were approved or accepted by EASA before 01 January 2021, and were incorporated into EASA TCDS EASA.IM.A.080 at Issue 8 dated 20 August 2019 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement.

#### 1. Type / Variant / Model

- a) Type: ELIXIR
- b) Variant or Model: Elixir

#### 2. Type Certificate Holder

Elixir Aircraft  
Rue du Jura  
17000 La Rochelle  
France

### II. 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.

**In addition, when modified by Elixir Aircraft modification MOD-2023-14:**

EASA CS-23, Certification Specifications for Normal, Utility, Aerobatic and Commuter Category Aeroplanes, Amdt. 6, dated 08 March 2023, Sections 23.2100, 23.2105, 23.2110, 23.2115, 23.2120, 23.2125, 23.2130, 23.2135, 23.2140, 23.2145, 23.2150, 23.2155, 23.2160, 23.2165, 23.2170, 23.2200, 23.2210, 23.2215, 23.2220, 23.2225, 23.2230, 23.2235, 23.2240, 23.2245, 23.2250, 23.2255, 23.2260, 23.2265, 23.2270, 23.2300, 23.2305, 23.2340, 23.2400, 23.2445, 23.2500, 23.2510, 23.2530, 23.2535, 23.2610, 23.2615, 23.2620, 23.2625.

#### 3. Special Conditions

SC-ELA.2015-01, i2 – Lithium Battery Installations

#### 4. Exemptions

None

#### 5. Deviations

None

#### 6. Equivalent Safety Findings

None

#### 7. Environmental Protection

See TCDSN.

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### III. Technical Characteristic and Operating 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 8.54 m

Height 1.90 m

Length 6.06 m

Wing area 7.9 m<sup>2</sup>

#### When modified by Elixir Aircraft modification MOD-2023-14:

Wing span 8.94 m

Height 1.90 m

Length 6.06 m

Wing area 8.24 m<sup>2</sup>

#### 5. Engine

##### a. Model:

ROTAX 912iSc3 Sport

##### b. Type Certificate:

The ROTAX 912iSc3 Sport is certified by United Kingdom CAA under TC UK.TC.E.00050 Issue 1 Dated 24 October 2022

##### c. Limitations

Refer to the latest version of TCDS No. UK.TC.E.00050

#### 6. Load factors:

Flaps up n +4 to -2

Flaps down n +2 to 0

#### 7. Propeller

##### a. 7.1 Model:

MTV-34-1-A/156-203

##### b. 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.

##### c. Number of blades:

3

**d. Diameter:**

1.56m.

**e. Sense of Rotation:**

Clockwise, seen from pilot's point of view.

**8. Fluids**

**a. Fuel:**

Refer to applicable AFM Section 2 – Limitations

**b. Oil:**

Refer to applicable AFM Section 2 – Limitations

**c. Coolant:**

Refer to applicable AFM Section 2 – Limitations

**9. Fluid capacities**

**a. Fuel:**

Total capacity: 104L

Usable capacity: 100L

**b. Oil:**

Min. sump capacity: 3.05L

Max. sump capacity: 3.5L

**c. Coolant:**

Capacity: 2.5L

**10. Air Speeds (indicated)**

V<sub>SO</sub>: 85 km/h (46 kt)

V<sub>S</sub>: 113 km/h (59 kt)

V<sub>FE</sub>: 164 km/h (88 kt)

V<sub>A</sub>: 224 km/h (121 kt)

V<sub>C</sub>: 244 km/h (131 kt)

V<sub>NE</sub>: 290 km/h (156 kt)

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

**When modified by Elixir Aircraft modification MOD-2023-14:**

V<sub>SO</sub>: 87 km/h (47 kt)

V<sub>S</sub>: 110 km/h (59 kt)

V<sub>FE</sub>: 164 km/h (88 kt)

V<sub>A</sub>: 228 km/h (123 kt)

V<sub>C</sub>: 251 km/h (136 kt)

V<sub>NE</sub>: 290 km/h (156 kt)

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:**

Max. takeoff mass is 630 kg.

**When modified by Elixir Aircraft modification MOD-MAJ-2023-14:**

Max. takeoff mass is 700 kg.

**14. Centre of Gravity Range:**

Refer to applicable AFM.

**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)**

#### **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

#### **V. Notes**

##### **1. Note 1:**

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.

##### **2. Note 2:**

In order to show compliance with CS-23 Amdt. 5 certification basis, the AMC to CS-23 was used by the TC holder complemented by the following Means of Compliance for specific design features:

- 2.1. SC-ELA.2015-01 [Lithium battery installations] Issue 1
- 2.2. SC-OVLA.div-03 [Night VFR operation with VLA] Issue 2
- 2.3. AMC-D23.0865-02 [Fire protection – Attachment of Engine Mount to composite Structure]
- 2.4. ASTM F2316-12 [Aircraft Emergency Parachute System]
- 2.5. CRI E-53 [Fuel pumps]
- 2.6. M-TS-0000470 [Replacement of Halon based fire extinguisher]

##### **In addition, when modified by Elixir Aircraft modification MOD-MAJ-2023-14:**

In order to show compliance with CS-23 Amdt. 6 certification basis, the AMC to CS-23 was used by the TC holder complemented by following Means of Compliance for specific design features:

- 2.7. M-TS-0000573 [Enhanced Stall Characteristics, Stall characteristics, stall warning and spins]
- 2.8. M-TS-0000583 [CS-VLA aircraft with stalling speed in landing configuration above 45kt]

##### **3. Note 3:**

When modified by Elixir Aircraft modification MOD-2023-14, the Elixir model is designated “Elixir B” into the approved documentation.

## Section 2 Administration

### I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
AFM	Aircraft Flight Manual
AMM	Aircraft Maintenance Manual
CAA	Civil Aviation Authority
CAS	Calibrated Air Speed
CS	Certification Specification
EASA	European Union Aviation Safety Agency
km/h	Kilometres per hour
kt	Knot
L	Litres
m	Metre
m <sup>2</sup>	Metres-squared
mm	Millimetre
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise
TCH	Type Certificate Holder
VFR	Visual Flight Rules

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**II. Type Certificate Holder Record**

<b>TCH Record</b>	<b>Period</b>
Elixir Aircraft Rue du Jura 17000 La Rochelle France	Since 20 March 2020

**III. Amendment Record**

<b>TCDs Issue No.</b>	<b>TCDs Issue Date</b>	<b>Changes</b>	<b>TC Issue and Date</b>
1	03 Oct 2024	Initial	Issue 1 03 Oct 2024
2	12 Jan 2026	Minor layout changes. Correcting aircraft dimensions §III.4. Addition of Elixir Aircraft modification MOD-MAJ-2023-14. Addition of Note 2 and Note 3 §V	-

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