

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED  
MODEL LIST (AML) SA01134DE FOR EARTHX ETX680-24-TSO  
BATTERY INSTALLATION

**Revision: A**  
**Dated: 4/23/2026**

**FAA APPROVED MODEL LIST**  
**ETX680-24-TSO Battery Installation**  
**EarthX STC No. SA01134DE**

## 1 Revision Log

| Revision | Pages    | Description          | FAA Approval   | Date           |
|----------|----------|----------------------|--|----------------|
| IR       | ALL      | Initial Release      | Kreg R. Voorhies,<br>ODA Lead administrator<br>Cert Works, LLC ODA<br>ODA No. ODA(AIR)-833887-NM | July 31, 2024  |
| A        | Section4 | Added models to list | See Section 4  | April 23, 2026 |

## 2 Introduction

This document is the Federal Aviation Administration (FAA) Approved Model List (AML) for Supplemental Type Certificate (STC) Number SA01134DE, for installing the EarthX Inc. ETX680-24-TSO Battery into eligible aircraft.

Revisions to the AML must be coordinated between the STC holder and the responsible Certification Branch, and requires FAA approval. This AML is only applicable to the aircraft listed in paragraph 4.

### 2.1 Prerequisites

For an approved model (see paragraph 4) to be eligible for this STC installation, specific conditions must be met (paragraph 2.2.1) and meet the specific serial number limitations of paragraph 2.2.2.

### 2.2 Limitations

#### 2.2.1 Limitations – All models:

| Limitation Number | Limitations for ALL models   |
|-------------------|--|
| 1                 | To prevent battery overcharging, Over Voltage Protection (OVP) means/ equipment in the battery charging system is required.                        |
| 2                 | The installer must determine if this design change is compatible with previously approved modifications.   |
| 3                 | The modified airplane must be maintained in accordance with the Instructions for Continued Airworthiness (ICA) document.                           |
| 4                 | A copy of this certificate must be maintained as part of the permanent records for the modified aircraft.  |
| 5                 | If the holder agrees to permit another person to use this certificate, the holder shall give the other person written evidence of that permission. |
| 6                 | Installation limited to 28 DC volts electrical systems.  |

#### 2.2.2 Limitations – Model Specific:

None

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### 3 Certification Basis

The certification basis for each qualified model listed in paragraph 4 is as specified in its Type Certificate Datasheet (TCDS) and as modified by this STC’s type design at the amendment levels noted below:

Based on §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis is as follows:

a. As determined by the Type Certificate Data Sheet (TCDS) for the aircraft for parts not changed or not affected by this STC.

b. Regulations at the amendment levels listed in Table 1 below for parts changed or affected by the STC since the reference date of application, February 14, 2022.

14 CFR Sections: 23.301(a),(b),(c) Amdt. 23-48; 23.303 Amdt. - ; 23.305(a),(b) Amdt. 23-45; 23.307(a) Amdt. - ; 23.337(a)(1)(2),(b)(1) Amdt. 23-48; 23.601 Amdt. - ; 23.603 Amdt. 23-23; 23.605(a) Amdt. 23-23; 23.607(b) Amdt. 23-48; 23.609 Amdt. - ; 23.611 Amdt. 23-48; 23.613 Amdt. 23-45; 23.619 Amdt. 23-7; 23.625(a),(b),(c) Amdt. 23-7; 23.771(a) Amdt. 23-14; 23.773(a)(1,2) Amdt. 23-63; 23.853(a) Amdt. 23-62; 23.863 Amdt. 23-34; 23.867 Amdt. 23-49; 23.1183(a) Amdt. 23-51; 23.1301 Amdt. 23-62; 23.1309(a),(d) Amdt. 23-62; 23.1322 Amdt. 23-43; 23.1351(a)(1)(2)(i),(b)(1)(i)(ii)(iii),(2),(3) Amdt. 23-49; 23.1357(a,b) Amdt. 23-43; 23.1359(a),(c) Amdt. 23-49; 23.1365(a,d,e) Amdt. 23-49; 23.1367 Amdt. - ; 23.1431(b) Amdt. 23-62; 23.1529 Amdt. 23-26; 23.1541(a)(2)(b) Amdt. 23-21; 23.1581(a-c)(f) Amdt. 23-50; 23.1585(a,j) Amdt. 23-50; 23.2005 Amdt. 23-64; 23.2010 Amdt. 23-64; 23.2325(g) Amdt. 23-64; 23.2410 Amdt. 23-64; 23.2440(c)(1) Amdt. 23-64; 23.2500 Amdt. 23-64; 23.2505 Amdt. 23-64; 23.2510 Amdt. 23-64; 23.2520 Amdt. 23-64; 23.2525(a),(b),(c) Amdt. 23-64.

c. Means of Compliance Issue Paper, S-1, dated 4/17/2023 approved and closed on 4/28/2023, Installation of Rechargeable Lithium Battery Systems for 14 CFR Part 23 Airplanes is applicable to this modification.

| SO No | Safety Objectives  |
|-------|--|
| 1     | Be designed to maintain safe cell temperatures and pressures under all foreseeable operating conditions to prevent fire and explosion.   |
| 2     | Be designed to prevent the occurrence of self-sustaining, uncontrollable increases in temperature or pressure, and automatically control the charge rate of each cell to protect against adverse operating conditions, such as cell imbalance, back charging, overcharging, and overheating. |
| 3     | Not emit explosive or toxic gases, either in normal operation or as a result of its failure, that may accumulate in hazardous quantities within the airplane   |
| 4     | Meet the requirements of §23.2325(g).  |
| 5     | Not damage surrounding structure or adjacent systems, equipment, components, or electrical wiring from corrosive or any other fluids or gases that may escape in such a way as to cause a major or more-severe failure condition.  |
| 6     | Have provisions to prevent any hazardous effect on airplane structure or systems caused by the maximum amount of heat it can generate due to any failure of it or its individual cells.  |
| 7     | Have a failure sensing and warning system to alert the flight crew if its failure affects safe operation of the airplane.  |
| 8     | Have a monitoring and warning feature that alerts the flight crew when its charge state falls below acceptable levels if its function is required for safe operation of the airplane.  |
| 9     | Have a means to disconnect from its charging source in the event of an over-temperature condition, cell failure or battery failure.  |

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**4 Approved Model List**

Date of Issuance: July 31, 2024

| ITEM | AIRCRAFT MAKE    | AIRCRAFT MODEL  | ORIGINAL TC NUMBER | CERTIFICATION BASIS FOR ALTERATION | FAA APPROVED AIRCRAFT FLIGHT MANUAL SUPPLEMENT  |                         | FAA APPROVED MASTER DRAWING LIST  |                        | FAA ACCEPTED ICA   |                        | AML REV DATE |
|------|------------------|---|--------------------|------------------------------------|---|-------------------------|-----------------------------------|------------------------|--|------------------------|--------------|
|      |                  |   |                    |                                    | Number  | Revision *              | Drawing                           | Revision *             | Drawing  | Revision **            |              |
| 1.   | Textron (Cessna) | 172N, 172P, 172Q (S/N 17258105 thru 17258112, 17261578 and 17269310 through 17276654), 172R, 172S             | 3A12               | See Paragraph 3                    | ETX680-24-TSO-AFMS, Airplane Flight Manual Supplement (AFMS) For EarthX ETX680-24-TSO Battery | Rev. IR dated 9/11/2023 | D23120, Master Drawing List (MDL) | Rev IR dated 5/16/2024 | 200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness | Rev E1 dated 3/13/2026 | 7/31/2024    |
| 2.   | Textron (Cessna) | R172K (S/N R1722725 and on), 172RG  | 3A17               | See Paragraph 3                    | ETX680-24-TSO-AFMS, Airplane Flight Manual Supplement (AFMS) For EarthX ETX680-24-TSO Battery | Rev. IR dated 9/11/2023 | D23120, Master Drawing List (MDL) | Rev B dated 10/15/2025 | 200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness | Rev E1 dated 3/13/2026 | 4/23/2026    |
| 3.   | Cirrus           | SR20, SR22, SR22T   | A00009CH           | See Paragraph 3                    | ETX680-24-TSO-AFMS, Airplane Flight Manual Supplement (AFMS) For EarthX ETX680-24-TSO Battery | Rev. IR dated 9/11/2023 | D23120, Master Drawing List (MDL) | Rev B dated 10/15/2025 | 200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness | Rev E1 dated 3/13/2026 | 4/23/2026    |
| 4.   | Diamond          | DA 40, DA 40F, DA 40NG  | A47CE              | See Paragraph 3                    | ETX680-24-TSO-AFMS, Airplane Flight Manual Supplement (AFMS) For EarthX ETX680-24-TSO Battery | Rev. IR dated 9/11/2023 | D23120, Master Drawing List (MDL) | Rev B dated 10/15/2025 | 200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness | Rev E1 dated 3/13/2026 | 4/23/2026    |
| 5.   | Textron (Cessna) | U206G, TU206G (S/N U20602589 and U20604075 and on), 206H (S/N 20608001 and on), T206H (S/N T20608001 and on)  | A4CE               | See Paragraph 3                    | ETX680-24-TSO-AFMS, Airplane Flight Manual Supplement (AFMS) For EarthX ETX680-24-TSO Battery | Rev. IR dated 9/11/2023 | D23120, Master Drawing List (MDL) | Rev B dated 10/15/2025 | 200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness | Rev E1 dated 3/13/2026 | 4/23/2026    |
| 6.   | Textron (Cessna) | 210L, 210M, 210N, 210R, T210L, T210M, T210N, T210R (S/N 21059503 and on), P210N, P210R (S/N P21000001 and on) | 3A21               | See Paragraph 3                    | ETX680-24-TSO-AFMS, Airplane Flight Manual Supplement (AFMS) For EarthX ETX680-24-TSO Battery | Rev. IR dated 9/11/2023 | D23120, Master Drawing List (MDL) | Rev B dated 10/15/2025 | 200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness | Rev E1 dated 3/13/2026 | 4/23/2026    |
| 7.   | Textron (Cessna) | 152 S/N 15279406 and on   | 3A19               | See Paragraph 3                    | ETX680-24-TSO-AFMS, Airplane Flight Manual Supplement (AFMS)                                  | Rev. IR dated 9/11/2023 | D23120, Master Drawing List (MDL) | Rev B dated 10/15/2025 | 200408, ETX680-24-TSO Manual with Instructions                             | Rev E1 dated 3/13/2026 | 4/23/2026    |

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|    |                  |   |      |                 |   |                         |                                   |                        |  |                        |           |
|----|------------------|---|------|-----------------|---|-------------------------|-----------------------------------|------------------------|--|------------------------|-----------|
|    |                  |   |      |                 | For EarthX ETX680-24-TSO Battery  |                         |                                   |                        | for Continued Airworthiness  |                        |           |
| 8. | Textron (Cessna) | 182Q, 182R, 182S, 182T, T182 (S/N 18263479, 18265966 and on), R182 and TR182 series (S/N R18200001 to R18202041), T182T | 3A13 | See Paragraph 3 | ETX680-24-TSO-AFMS, Airplane Flight Manual Supplement (AFMS) For EarthX ETX680-24-TSO Battery | Rev. IR dated 9/11/2023 | D23120, Master Drawing List (MDL) | Rev B dated 10/15/2025 | 200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness | Rev E1 dated 3/13/2026 | 4/23/2026 |

\* Or later FAA Approved Revision

\*\* Or later FAA Accepted Revision

FAA Approved: \_\_\_\_\_  
for Manager, West Certification Branch

Amended: April 23, 2026

Reissued: \_\_\_\_\_