

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

**Revision: B
Dated: 6/15/2026**

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, ODA Lead administrator Cert Works, LLC ODA ODA No. ODA(AIR)-833887-NM	July 31, 2024
A	Section4	Added models to list	See Section 4	April 23, 2026
B	Section4	Added models to list	See Section 4	July 21, 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

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TC NUMBER	CERT. 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
9.	Textron (Cessna)	A185F (S/N 18502300, 18503459 and on)	3A24	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026
10.	Textron (Cessna)	A152 (S/N A1520735 and on)	3A19	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026
11.	Textron (Cessna)	180K (S/N 18052906 and on)	5A6	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026
12.	Textron (Cessna)	177B (S/N 17702673 and on)	A13CE	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026
13.	Textron (Cessna)	LC41-550FG (41002 through 41108, 41501 through 41533, 41563 through 41800, and 411001 through 411161), LC42-550FG (42001 through 42084, 42501 through 42569, and 421001 through 421020), T240 (T24002001 and on)	A00003SE	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026
14.	Textron (Cessna)	F33A (S/N: CE-748, CE-772 and on); F33C (S/N: CJ-149 and on); G36 (S/N: E-4021, E-4147 and on); V35B (S/N: D-10097, D-10120	3A15	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026

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		and on); A36 (S/N: E-1111, E-1241 through E-3635, except E-3630); A36TC (S/N: EA-1 through ES-241, EA-243 through EA-272); B36TC (S/N: EA-242, EA-273 and on)									
15.	Commander Aircraft Corporation	114B (14541 and on), 114TC (20001 and on)	A12SO	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026
16.	Mooney International Corporation	M20J (S/N: 24-3000 and on); M20K (S/N: 25-1000 through 25-2032), M20L, M20M, M20R, M20S, M20TN, M20U, M20V	2A3	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026
17.	Piper Aircraft, Inc.	PA-28-181 (S/N 2890206 through 2890231, 2843001 and on, and 2881001 and on, and 28010001 and on; PA-28-161 (S/N 2816110 through 2816119, and 2842001 and on)	2A13	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 C dated 6/15/2026	200408, ETX680-24-TSO Manual with Instructions for Continued Airworthiness	Rev F dated 4/7/2026	7/21/2026

* Or later FAA Approved Revision

** Or later FAA Accepted Revision

FAA Approved: _____
for Manager, West Certification Branch

Amended: April 23, 2026; July 21, 2026

Reissued: _____