



United States of America
Department of Transportation
Federal Aviation Administration
Supplemental Type Certificate

Number: SA01044DE

This certificate issued to: Finnoff Aviation Products, LLC
11914 Corporate Way
Broomfield, CO 80021

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part (See page 3) of the Federal Aviation Regulations.

Original Product – Type Certificate Number: A78EU Make: Pilatus
Model: PC-12, PC-12/45, PC-12/47 and PC-12/47E

Description of Type Design Change:

This STC approves the Finnoff Aviation Products installation of the TB44 advanced lithium-ion battery manufactured by True Blue Power in the make and model listed above (Single Battery Configuration). The installation shall be in accordance with Federal Aviation Administration (FAA) approved Finnoff Aviation Products Master Drawing List MDL002-TB44, Revision A, dated September 5, 2019 or later Federal Aviation Administration approved revisions for aircraft configured for a Single TB44 battery installation.

This STC approves the Finnoff Aviation Products installation of the TB40 advanced lithium-ion battery manufactured by True Blue Power in the make and model listed above (Single or Dual Battery Configuration). The installation shall be in accordance with Federal Aviation Administration (FAA) approved Finnoff Aviation Products Master Drawing List MDL002-TB44, Revision G, dated June 22, 2022 or later Federal Aviation Administration approved revisions for aircraft configured for a Single or Dual TB40 battery installation.

(Continued on page 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: October 15, 2017

Date Reissued: February 6, 2020

Date of Issuance: December 20, 2019

Date Amended: September 20, 2022

By Direction of the Administrator

Signature **LUCAS WALKER** Digitally signed by LUCAS WALKER
Date: 2022.09.20 20:07:51 -04'00'
Title: Luke Walker
Manager, Denver ACO Branch
Compliance and Airworthiness Division

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number:

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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(Continuation from page 1 of Limitations and Conditions :)

Limitations and Conditions:

Aircraft Configured for TB44 Battery Installation (Single Battery Configuration):

1. Aircraft with this STC installed are to be maintained in accordance with the Instructions for Continued Airworthiness Document ICAK004-TB44, Rev -, dated December 12, 2019 or later accepted revision unless other methods, techniques and practices for maintaining this STC have been accepted by the FAA.
2. Aircraft with this STC installed must be maintained in accordance with the Airworthiness Limitations (AWL) for this STC. These AWLs are contained in document ICAK004-TB44, Rev -, dated December 12, 2019, page ii. Any necessary or desired change to the AWLs must be approved by the Denver ACO Branch via revision to this manual.
3. Aircraft with this STC installed shall be operated in accordance with the Flight Manual Supplement AFMS003-TB44, Rev -, FAA approved on 12/13/19 or later FAA approved revision.
4. The installation should not be incorporated into any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft.
5. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
6. In accordance with 21.50, the Instruction for Continued Airworthiness (ICA) are required to be made available by the certificate holder at no later than at the time of installation.

Aircraft Configured for TB40 Battery Installation (Single or Dual Battery Configuration):

1. Aircraft with this STC installed are to be maintained in accordance with the Instructions for Continued Airworthiness Document ICAK004-TB40, Rev IR, dated September 8, 2022 or later accepted revision unless other methods, techniques and practices for maintaining this STC have been accepted by the FAA.
2. Aircraft with this STC installed must be maintained in accordance with the Airworthiness Limitations (AWL) for this STC. These AWLs are contained in document ICAK004-TB40, Rev IR, approval date September 9, 2022, page ii. Any necessary or desired change to the AWLs must be approved by the Denver ACO Branch via revision to this manual.
3. Aircraft with this STC installed shall be operated in accordance with the Flight Manual Supplement AFMS003-TB40, Rev -, FAA approved on 9/14/22 or later FAA approved revision.
4. The installation should not be incorporated into any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft.
5. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
6. In accordance with 21.50, the Instruction for Continued Airworthiness (ICA) are required to be made available by the certificate holder at no later than at the time of installation.
7. A TB40 and TB44 battery intermix is not allowed. Only dual TB40 batteries can be installed for aircraft configured with a dual battery configuration.

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101 the certification basis for this installation on the Pilatus Aircraft listed above is as follows:

- a. The type certification basis for the Pilatus Aircraft Models listed above is shown on TCDS A78EU for parts **not changed or not affected** by the change in Type Design.

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Federal Aviation Administration
Supplemental Type Certificate

- b. The certification basis for **parts changed or affected** by the change in Type Design are below, is:

14 CFR	Amendment	14 CFR	Amendment
23.301(a)(b)(c)	23-48	23.831(b)	23-42
23.303	23-0	23.853(a)	23-34
23.305	23-45	23.863(a)Through (d) (See paragraph c)	-
23.307(a)	23-0	23.867(a)(b)	23-7
23.337(a)(b)	23-34	23.1301(a)	23-20
23.341(b)	23-42	23.1301(b)(c)	23-20
23.561(b)(3)	23-48	23.1301(d)	23-20
23.562(d)(1)	23-50	23.1309(c) (See paragraph c)	-
23.601	23-0	23.1309(a)(1)(2)(b)(c)(d)	23-62
23.603(a)(b)	23-23	23.1322(a)(b)(c)(d)	23-17
23.605(a)	23-23	23.1351(a)(b)(d)(g)	23-49
23.607(a)(b)(c)	23-48	13.1353(a)(b)(c)(d)(e)(See paragraph c)	-
23.609(a)(b)	23-0	23.1357(a)(b)(c)(d)	23-43
23.611	23-7	23.1359(a)(b)(c)	23-49
23.613(a)(b)(c)(d)(e)	23-45	23.1365(a)(b)(c)(d)(e)(f)	23-49
23.615(a)	23-7	23.1367(a)(b)(c)(d)	23-0
23.619	23-7	23.1381(a)(b)	23-0
23.625(a)(b)(c)	23-7	23.1431(a)(b)	23-0
23.627	23-0	23.1529(See paragraph c)	-
23.771(a)	23-14	23.1541(a)(b)	23-21
23.773(a)	23-45	23.1581(a)(b)(d)	23-34
23.777(a)(b)	23-33	23.1583(c)(d)	23-34
		23.1581(a)(c)	23-34

- c. Special Condition No. 23-16-02-SC Lithium Batteries – Aircraft Configured for TB44 single battery installations.

NOTE: For the TB40 battery installation approval, a Means of compliance Issue Paper (dated: 11 January 2022) and a Method of compliance (dated: 20 March 2022) were required in the showing of compliance for this change. If an amendment to this STC is sought, a new Means and Method of compliance may be required in showing compliance to the certification basis.

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