



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SA04400NY

This certificate issued to: TCW Technologies, LLC
2955 Main Road East
Emmaus, PA 18049

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* of *

Original Product *
Type Certificate Number:

Make: *

Model: *See attached FAA Approved Model List (AML)
SA04400NY for list of makes, models, and
applicable certification basis

Description of Type Design Change:

- 1. Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V.
2. Maintenance to be performed in accordance with TCW Technologies Instructions for
Continued Airworthiness Document No. 725.0008, Rev.1.6, Dated June 12, 2023.
3. See attached FAA AML No. SA04400NY for required data.

Limitations and Conditions:

- 1. Compatibility of this design change with previously approved modifications must be determined by the
installer.

(See Limitations and Conditions Continued on Page 3 of 3)

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

Date of Application: May 5, 2017 Date Reissued: October 2, 2020; July 20, 2021

Date of Issuance: September 26, 2019 Date Amended: Jul 12, 2021; Sep 15, 2022;
Dec 23, 2022; Jun 29, 2023; Nov 6, 2023

By Direction of the Administrator

Signature: CESAR A
GOMEZ

for Christina M. Underwood
Manager, East Certification Branch
Compliance & Airworthiness Division

Title: Aircraft Certification Service

Digitally signed by CESAR A
GOMEZ
Date: 2023.11.08 14:26:59
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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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Limitations and Conditions (continued):

2. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give that person written evidence of that permission.
3. One of the following must be installed as a prerequisite to this modification:
STCs # SA00343BO, SA01899WI, SA01933LA-D, SA02019SE-D, SA02636SE
or applicable avionic systems listed in Table 2-2 of the STC Installation Instructions Document No. 725.0047 Rev. 1.5, dated September 18, 2023.
4. The aircraft may require an FAA approved alternate source of Communications and Navigation System that is powered independent of the IBBS in accordance with the Pilot Operating Handbook/Airplane Flight Manual.

Certification Basis:

In accordance with 14 CFR 21.101 and 21.115 and the procedures specified in FAA Order 8110.48 and FAA AC 21.101 the certification basis for this modification is as follows.

1. The type certification basis for areas not changed or not affected by this modification remain as specified in the applicable TCDS on the AML.
2. The certification bases for areas changed or affected by this modification since the date of application, February 21, 2020, was determined to be:

14 CFR Part 23	Amdt.	14 CFR Part 23	Amdt.
Sec. 23.1	23-34	Sec. 23.1306(b)	23-61
Sec. 23.29(b)	23-21	Sec. 23.1308(c)	23-57
Sec. 23.301(a)	23-48	Sec. 23.1309(a)(1)(c)(d)	23-62
Sec. 23.303	23-0	Sec. 23.1322(a)(b)(c)(d)(e)	23-43
Sec. 23.305(a)	23-45	Sec. 23.1331(b)(1)(2)	23-62
Sec. 23.307(a)	23-0	Sec. 23.1351(a)(1)(2)(i)(b)(1)(i)(ii)(2)(3)	23-49
Sec. 23.337(a)(1)(2)(b)(1)	23-48	Sec. 23.1353(a)(b)(c)(d)(e)	23-62
Sec. 23.341(c)	23-48	Sec. 23.1357(a)(b)(c)(d)	23-43
Sec. 23.561(b)(3)(e)	23-62	Sec. 23.1359(a)(c)	23-49
Sec. 23.601	23-0	Sec. 23.1365(a)(b)(d)(e)	23-49
Sec. 23.603(a)(1)(2)(3)(b)	23-23	Sec. 23.1367(a)(b)(c)(d)	23-0
Sec. 23.605(a)	23-23	Sec. 23.1431(a)(b)	23-62
Sec. 23.607(a)(b)(c)	23-48	Sec. 23.1529	23-64
Sec. 23.609(a)(b)	23-0	Sec. 23.1581(a)(b)(1)(3)(c)(f)	23-50
Sec. 23.611	23-48	Sec. 23.1583(m)	23-62
Sec. 23.613(a)(b)	23-45	Sec. 23.1585(a)(1)(j)	23-62
Sec. 23.619	23-7	Sec. 23.2005	23-64
Sec. 23.625(a)	23-7	Sec. 23.2010	23-64
Sec. 23.853(a)(f)	23-62	Sec. 23.2500	23-64
Sec. 23.863	23-34	Sec. 23.2505	23-64
Sec. 23.867(a)(b)(1)(2)	23-49	Sec. 23.2525	23-64
Sec. 23.1301(a)(b)(c)	23-62	Sec. 23.2325(g)	23-64
		Sec. 23.2410	23-64

----- END -----

Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine 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 Title 14 of the Code of Federal Regulations, part 21, section 21.47 (14 CFR 21.47). A transfer must be endorsed as provided on the reverse hereof. A Type Certificate holder who allows a person to use the Type Certificate to manufacture a new aircraft, aircraft engine, or propeller must provide that person with a written licensing agreement acceptable to the FAA. (Ref. 14 CFR 21.55).



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