UNITED KINGDOM
CIVIL AVIATION AUTHORITY

SPECIFIC AIRWORTHINESS SPECIFICATION (SAS)

NO. UK.SAS.A.0001 Issue 01

for
Slingsby T67

Model(s): T67A
T67B Firefly
T67C Firefly
T67M Firefly
T67M-MkII Firefly
T67M200 Firefly
T67M260 Firefly
T67M260-T3A Firefly

This Specific Airworthiness Specification (SAS) is issued in accordance with Regulation (EC) 216/2008 Article 20(1)(b) and Regulation (EU) 748/2021 Part 21, paragraph 21.A.173(b)(2) as retained (and amended in UK domestic law) under the European (Withdrawal) Act 2018 and amended by the Aviation Safety (Amendment etc.) (EU Exit) Regulations 2019. This SAS is issued to allow for the issue of a Restricted Certificate of Airworthiness.

This Specific Airworthiness Specification replaces SAS No. EASA.SAS.A.390. The former Type Certificate Holder was:

Slingsby Advanced Composites Ltd.
Ings Lane,
Kirkbymoorside
North Yorkshire
YO62 6EZ
United Kingdom

SECTION 1: Aircraft Design Definition

Variant 1 T67A

I. General

1. Type / Variant or Model

Type	T67
Model	T67A

2. Airworthiness Category

Normal, Utility and Aerobatic

3. Manufacturer

Slingsby Advanced Composites Limited
Ings Lane
Kirkbymoorside
North Yorkshire
England, YO62 6EZ

II. Certification Basis

1. Reference Date for determining the applicable requirements

15 February 1981

2. Airworthiness Requirements

CAA Airworthiness Notice 15 Issue 3 dated 15-Feb-1981

Slingsby Modifications – Current Provisions FAR 23

3. Special Conditions

None

4. Equivalent Safety Findings

None

5. Environmental Protection

Refer to CAA certification noise levels

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

SEL DON 010 (Modification M0)

Drawing No. T67A-00-001

2. Description

Single engine, two-seat cantilever low wing airplane, wooden construction, fixed tricycle landing gear, conventional tail.

3. Equipment

(14 volt DC system)

Refer document SEL DON 010

4. Dimensions

Span:	10.6m	(34ft 9¼in)
Length:	7.37m	(24ft 2in)
Height:	2.37m	(7ft 9¼in)
Wing Area:	12.60m^2	(135.63 ft^2)

5. Engines

1 Textron Lycoming O-235-L2A

Pre Mods M219, M406A, M406B

FAA Engine Type Certificate Data Sheet E-223

Or

1 Textron Lycoming O-235-N2A

Post Mod M219,

FAA Engine Type Certificate Data Sheet E-223

Or

1 Textron Lycoming O-235-L2C

Post Mod M406A,

FAA Engine Type Certificate Data Sheet E-223

Or

1 Textron Lycoming O-235-N2C

Post Mod M406B,

FAA Engine Type Certificate Data Sheet E-223)

5.1 Engine Limits

for L2A, L2C, N2A & N2C:

Max take-off rotational speed 2800 r.p.m.

Max continuous rotational speed 2800 r.p.m

For powerplant limitations refer to AFM, TPT67A/FM, Section 2.

6. Propeller

1 Hoffmann HO-14-178-120 (Composite type)

LBA Propeller Type Certificate Data Sheet 32.110/1

6.1 Settings

N/A - Fixed Pitch

7. Fluids

7.1 Fuel

AVGAS 100/130 or AVGAS 100 LL

7.2 Oil

Oils conforming to Mil. spec. MIL-L-60828

For more details see AFM, TPT67A/FM, Section 1

8. Fluid Capacities

8.1 Fuel

Total:	80 litres	17.6 Imp Gallons
Usable:	79 litres	17.4 Imp Gallons

8.2 Oil

Maximum:	5.678 litres	6 US qts
Minimum:	4.494 litres	4¾ US qts

For more details see AFM, TPT67A/FM, Section 2

9. Air Speeds

Design Manoeuvring Speed V_A:	up to 750kg (1650 lb)	123 KIAS
Maximum flap extended speed V_{FE}:	Full flaps	92 KIAS
	Take-off flaps	92 KIAS
Maximum structural cruising speed V_{NO} (= Maximum structural design speed V_C):		123 KIAS
Never Exceed Speed V_{NE}		138 KIAS

10. Maximum Operating Altitude

Not Specified

11. All weather Capability

Day-VFR	
Night	see Note 2
IFR	see Note 1 & 2

Flight in icing conditions is forbidden

12. Maximum Total Weight Authorised (MTWA)

Take-off:	750 kg (1650 lb)
Landing:	750 kg (1650 lb)
For Aerobatics:	720 kg (1584 lb)

13. Centre of Gravity Limits at MTWA

Cat. ‘A’: 720 kg (1584 lb)

Forward limit:	0.81 m (2 ft 8 ins) aft of Datum
Aft limit:	0.94 m (3 ft 1 ins) aft of Datum

Cat. ‘U’: 750 kg (1650 lb)

Forward limit	:	0.81 m (2 ft 8 ins) aft of Datum
Aft limit:		0.953 m (3 ft 1½ ins) aft of Datum

14. Datum

Forward face of Frame 1

15. Levelling Means

Port Cockpit sill (upper port longeron)

16. Minimum Flight Crew

1 pilot

17. Maximum Passenger Seating Capacity

2, including pilot. This number is limited by the space available in the cabin

18. Baggage/Cargo Compartments

Location behind Seats	Max. Allowable Load 30 kg (66 lbs)

19. Wheels and Tyres

Nose Wheel Tyre Size (Pre Mod M68, or M71, or M136A)	4.00 – 4 (300 x 100)
Nose Wheel Tyre Size (Post Mod M68, or M71, or M136A)	5.00 – 5 (minimum 4 ply rating)
Main Wheel Tyre Size (Pre Mod M136B)	380 x 150
Main Wheel Tyre Size (Post Mod M136B)	6.00 – 6 (minimum 4 ply rating)

IV. Operating and Service Instructions

T67A Aircraft Flight Manual (AFM)	TPT67A/FM-A
T67A Aircraft Maintenance Manual (MM) Incorporates Maintenance Schedule as Part of Section 2 (incl. Airworthiness Limitations) Service, Change (Modification), and Information Bulletins	TPT67A/MM-A

V. Notes

1. For daytime VFR and IFR flight outside controlled airspace operation, the optional Modification M49 must be incorporated.

2. As note 1 above and Night operation the optional Modification M50 must be incorporated.

3. The following G limits apply:

Weights:	750 kg (1650 lb)	720 kg (1584 lb)

Flaps up:	+4	+6
	-1.8	-3
Flaps down:	+2	+2
	0	0

Variant 2 T67B

I. General

1. Type / Variant or Model

Type	T67
Model	T67B Firefly

2. Airworthiness Category

Normal, Utility and Aerobatic

3. Manufacturer

Slingsby Advanced Composites Limited
Ings Lane
Kirkbymoorside
North Yorkshire
England, YO62 6EZ

II. Certification Basis

1. Reference Date for determining the applicable requirements

2 December 1982

2. Airworthiness Requirements

Requirements Based on US CFR 14 Part 23 at Amendment 23-27 and UK CAA BCARs Section K, Chapters 2-2 to 2-5 and requirements for certification of composite structures as detailed in CAA letter to Slingsby Aviation Limited, reference 9/30/GSL2408 dated 2nd December 1982.

3. Special Conditions

None

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

None

7. Environmental Protection

Refer to CAA certification noise levels

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

SAL DON 150 (Modification M110)

Drawing No. T67B-00-001

See note 5 for T67B to T67C conversion, ref Mod M569.

2. Description

Single engine, two-seat cantilever low wing airplane, Composite (GRP) construction, fixed tricycle landing gear, conventional tail.

3. Equipment

(14 volt DC system)

Refer document SEL DON 150

4. Dimensions

Span:	10.6m	(34ft 9¼in)
Length:	7.32m	(24ft 1in)
Height:	2.36m	(7ft 9in)
Wing Area:	12.60m^2	(135.63 ft^2)

5. Engines

1 Textron Lycoming O-235-N2A

Pre Mod M406B,

FAA Engine Type Certificate Data Sheet E-223

Or

1 Textron Lycoming O-235-N2C

Post Mod M406B,

FAA Engine Type Certificate Data Sheet E-223

5.1 Engine Limits

for N2A & N2C:

The Highest Power in the Normal Operating Range (HPNOR) is 2600 r.p.m. Apart from an emergency, the power in normal operations should not exceed HPNOR.

For powerplant limitations refer to AFM, TP.T67B/FM, Section 2.

6. Propeller

1 Sensenich 72CK-0-56 (Metal type)

FAA Propeller Type Certificate Data Sheet P-904

6.1 Settings

N/A - Fixed Pitch

7. Fluids

7.1 Fuel

AVGAS 100 LL

7.2 Oil

Oils conforming to Mil. spec. MIL-L-22851

For more details see AFM, TP.T67B/FM, Section 1

8. Fluid Capacities

8.1 Fuel

Total:	117 litres	25.8 Imp Gallons
Usable:	112.5 litres	24.7 Imp Gallons

8.2 Oil

Maximum:	5.678 litres	6 US qts
Minimum:	4.494 litres	4¾ US qts

For more details see AFM, TP.T67B/FM, Section 2

9. Air Speeds

Design Manoeuvring Speed V_A:	up to 862 kg (1900 lb)	130 KIAS
Maximum flap extended speed V_{FE}:	Full flaps	88 KIAS
	Take-off flaps	88 KIAS
Maximum structural cruising speed V_{NO} (= Maximum structural design speed V_C):		130 KIAS
Never Exceed Speed V_{NE}		165 KIAS

10. Maximum Operating Altitude

3658 m (12 000 ft) without oxygen equipment being fitted

11. All weather Capability

Day-VFR	
IMC and Night	see Note 1
IFR	see Note 1

Flight into known icing conditions is prohibited

12. Maximum Total Weight Authorised (MTWA)

Take-off:	862 kg (1900 lb)
Landing:	862 kg (1900 lb)
For Aerobatics:	862 kg (1900 lb)

13. Centre of Gravity Limits at MTWA

Forward limit:	0.862 m (2 ft 9.94 ins) aft of Datum
Aft limit:	0.94 m (3 ft 1 ins) aft of Datum

For limits at other weights refer to the T67B Flight Manual ref. TP T67B/FM

14. Datum

Forward face of Frame 1

15. Levelling Means

Levelling board (T67B-88-307) placed on aft fuselage between canopy rail and fin forward fairing

16. Minimum Flight Crew

1 pilot

17. Maximum Passenger Seating Capacity

2, including pilot. This number is limited by the space available in the cabin

18. Baggage/Cargo Compartments

Location behind Seats	Max. Allowable Load 18 kg (40 lbs)

19. Wheels and Tyres

Nose Wheel Tyre Size	5.00 – 5 (minimum 4 ply rating)
Main Wheel Tyre Size	6.00 – 6 (minimum 4 ply rating)

IV. Operating and Service Instructions

T67B Firefly Aircraft Flight Manual (AFM)	TP.T67B/FM
T67B Firefly Aircraft Maintenance Manual (MM) Incorporates Maintenance Schedule as Part of Section 2 (incl. Airworthiness Limitations) Service, Change (Modification), and Information Bulletins	T67B/MM

V. Notes

1. For IFR flight Night operation refer to the Air Navigation Legislation for equipment required.

2. Aircraft airframe to be overall white, registration letters accepted, or in accordance with paint restrictions quoted in aircraft Flight Manual TP.T67B/FM.

3. Structural temperature restrictions are applicable refer aircraft Flight Manual TP.T67B/FM and note 4 below

4. The following G limits apply:

Weights:	862 kg (1900 lb) below 50°C	50°C & above
Flaps up:	+6	+4.4
	-3	-2
Flaps down:	+2	+2
	-1	-1

Refer Flight Manual TP.T67B/FM for further details

5. T67B aircraft may be modified to T67C standard IAW Slingsby Modification M569, UK CAA AAN 24296 refers.

First certified aircraft is works number 2015. Aircraft retain T67B 12 volt system. T67C power plant (with12 volt ancillaries) and propeller are fitted, general and performance data as per Section C (T67C) of thisTCDS. T67C G limits apply but structural temperature is limited to 40°C. For design standard refer to T67C900-001, drawing number T67C-00-006.

Variant 3 T67C

I. General

1. Type / Variant or Model

Type	T67
Model	T67C Firefly

2. Airworthiness Category

Normal, Utility and Aerobatic

3. Manufacturer

Slingsby Advanced Composites Limited
Ings Lane
Kirkbymoorside
North Yorkshire
England, YO62 6EZ

II. Certification Basis

1. Reference Date for determining the applicable requirements

2 December 1982

2. Airworthiness Requirements

Requirements Based on US CFR 14 Part 23 at Amendment 23-27 and UK CAA BCARs Section K, Chapters 2-2 to 2-5 and requirements for certification of composite structures as detailed in CAA letter to Slingsby Aviation Limited, reference 9/30/GSL2408 dated 2nd December 1982.

3. Special Conditions

None

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

None

7. Environmental Protection

Refer to CAA certification noise levels

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

SAL DON 190 (Modification M130)

Drawing No. T67C-00-001

2. Description

Single engine, two-seat cantilever low wing airplane, Composite (GRP) construction, fixed tricycle landing gear, conventional tail.

3. Equipment

(28 volt DC system)

Refer document SAL DON 190

4. Dimensions

Span:	10.6m	(34ft	9¼in)
Length:	7.32m	(24ft	1in)
Height: Pre Mod M468	2.36m	(7ft	9in)
Height: Post Mod M468	2.29m	(7ft	6in)
Wing Area:	12.60m^2	(135.63 ft^2)	

5. Engines

1 Textron Lycoming O-320-D2A

FAA Engine Type Certificate Data Sheet E-274

5.1 Engine Limits

Max take-off rotational speed 2700 r.p.m.

Max continuous rotational speed 2700 r.p.m..

For powerplant limitations refer to AFM, TP.T67C/FM, or TP.T67C/3/FM Section 2.

6. Propeller

1 Sensenich 74DM6-0-64 (Metal type)

FAA Propeller Type Certificate Data Sheet P-886

6.1 Settings

N/A - Fixed Pitch

7. Fluids

7.1 Fuel

AVGAS 100 LL

7.2 Oil

Oils conforming to Mil. spec. MIL-L-22851

For more details see AFM, TP.T67C/FM, or TP.T67C/3/FM Section 1

8. Fluid Capacities

8.1 Fuel

Fuselage Tank (Pre Mod M156)

Total:	117 litres	25.8 Imp Gallons

Usable:	112.5 litres	24.7 Imp Gallons	

8.2 Fuel

Wing Tanks (Post Mod M156)			
Total:	161.4 litres	35.5 Imp Gallons	42.6 US Gallons
Usable:	157.4 litres	34.62 Imp Gallons	41.54 US Gallons

8.3 Oil

	Maximum: 7.57 litres	8 US qts
	Useable: 6.678 litres	6 US qts
	For more details see AFM, TP.T67C/FM, or TP.T67C/3/FM Section 2	

9. Air Speeds

Design Manoeuvring Speed V_A:

(Pre Mod M156)	up to 907 kg (2000 lb)	140 KIAS
(Post Mod M156, Pre & Post Mod M357)(Pre Mod M439)	up to 953 kg (2100 lb)	140 KIAS
(Post Mod M156, Post Mod M357)(Post Mod M439)	up to 953 kg (2100 lb)	143 KIAS

Maximum flap extended speed V_{FE}:

(Pre Mod M656)	Full flaps	88 KIAS
	Take-off flaps	88 KIAS
(Post Mod M656)	Full flaps	98 KIAS
	Take-off flaps	120 KIAS

Maximum structural cruising speed V_{NO}

(= Maximum structural design speed V_C): 140 KIAS

Never Exceed Speed V_{NE} 180 KIAS

10. Maximum Operating Altitude

3658 m (12 000 ft) without oxygen equipment being fitted

11. All weather Capability

Day-VFR	
IMC and Night	see Note 1
IFR	see Note 1

Flight into known icing conditions is prohibited

12. Maximum Total Weight Authorised (MTWA)

Take-off:

(Pre & Post M156, Pre Mod M357)	907 kg (2000 lb)
(Post Mod M156, Post Mod M357, Pre Mod M495)	953 kg (2100 lb)
(Post Mod M156,Post Mod M495),	975 kg (2150 lb)

Landing:

(Pre & Post M156, Pre Mod M357)	907 kg (2000 lb)
(Post Mod M156, Post Mod M357, Pre Mod M495)	953 kg (2100 lb)
(Post Mod M156,Post Mod M495),	975 kg (2150 lb)

For Aerobatics:

(Pre & Post M156, Pre Mod M357)	907 kg (2000 lb)
(Post Mod M156, Post Mod M357, Pre Mod M495)	953 kg (2100 lb)
(Post Mod M156,Post Mod M495),	975 kg (2150 lb)

13. Centre of Gravity Limits at MTWA

Pre Mod M156

Forward limit:	907 kg (2000 lb)	0.81 m (2 ft 7.89 ins) aft of Datum
Aft limit:	907 kg (2000 lb)	0.901 m (2 ft 11.47 ins) aft of Datum

For limits at other weights refer to the T67C Flight Manual ref. TP T67C/FM

Post Mod M156, Pre Mod M495

Forward limit:	953 kg (2100 lb)	0.862 m (2 ft 9.94 ins) aft of Datum
Aft limit:	953 kg (2100 lb)	0.901 m (2 ft 11.47 ins) aft of Datum

For limits at other weights refer to the T67C Flight Manual ref. TP T67C/3/FM

Post Mod M495

Forward limit:	975 kg (2150 lb)	0.862 m 0.870 m (2 ft 10.25 ins) aft of Datum
Aft limit:	975 kg (2150 lb)	0.914 m (3 ft 0 ins) aft of Datum

For limits at other weights refer to the T67C Flight Manual ref. TP T67C/3/FM

14. Datum

Forward face of Frame 1

15. Levelling Means

Levelling board (T67B-88-307) placed on aft fuselage between canopy rail and fin forwardfairing

16. Minimum Flight Crew

1 pilot

17. Maximum Passenger Seating Capacity

2, including pilot. This number is limited by the space available in the cabin

18. Baggage/Cargo Compartments

Location behind Seats	Max. Allowable Load 30 kg (66 lbs)

19. Wheels and Tyres

Nose Wheel Tyre Size	5.00 – 5 (minimum 4 ply rating)
Main Wheel Tyre Size	6.00 – 6 (minimum 4 ply rating)

IV. Operating and Service Instructions

T67C Firefly Aircraft Flight Manual (AFM)	TP.T67C/FM (Pre Mod 156) or TP.T67C/3/M (Post Mod M156)
T67C Firefly Aircraft Maintenance Manual (MM) Incorporates Maintenance Schedule as Part of Section 2 (incl. Airworthiness Limitations) Service, Change (Modification), and Information Bulletins	T67C/MM

V. Notes

1. For IFR flight Night operation refer to the Air Navigation Legislation for equipment required.

2. Modifications M357, M439, M495 and M656 are non-structural Modifications.

3. Aircraft airframe to be overall white, registration letters accepted, or in accordance with paint restrictions quoted in aircraft Flight Manual TP.T67C/FM or TP.T67C/3/M.

4. Structural temperature restrictions are applicable refer aircraft Flight Manual TP.T67C/FM or TP.T67C/3/M and note 5 below.

5. The following G limits apply:

Weights: For MTWA up to 975 kg (2150 lb)	below 50°C	50°C & above
Flaps up:	+6	+4.4
	-3	-2
Flaps down:	+2	+2
	-1	-1

Refer Flight Manual TP.T67C/FM or TP.T67C/3/M for further details

Variant 4 T67M

I. General

1. Type / Variant or Model

Type	T67
Model	T67M Firefly

2. Airworthiness Category

Normal, Utility and Aerobatic

3. Manufacturer

Slingsby Advanced Composites Limited
Ings Lane
Kirkbymoorside
North Yorkshire
England, YO62 6EZ

II. Certification Basis

1. Reference Date for determining the applicable requirements

2 December 1982

2. Airworthiness Requirements

Requirements Based on US CFR 14 Part 23 at Amendment 23-27 and UK CAA BCARs Section K, Chapters 2-2 to 2-5 and requirements for certification of composite structures as detailed in CAA letter to Slingsby Aviation Limited, reference 9/30/GSL2408 dated 2nd December 1982.

3. Special Conditions

None

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

None

7. Environmental Protection

Refer to CAA certification noise levels

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

SAL DON 110 (Modification M100)

Drawing No. T67M-00-001

2. Description

Single engine, two-seat cantilever low wing airplane, Composite (GRP) construction, fixed tricycle landing gear, conventional tail.

3. Equipment

(28 volt DC system)

Refer document SAL DON 110

4. Dimensions

Span:	10.6m	(34ft	9¼in)
Length:	7.29m	(23ft	11in)
Height:	2.36m	(7ft	9in)
Wing Area:	12.60m^2	(135.63 ft^2)	

5. Engines

1 Textron Lycoming AEIO-320-D1B

FAA Engine Type Certificate Data Sheet 1E12

5.1 Engine Limits

Max take-off rotational speed 2700 r.p.m.

Max continuous rotational speed 2700 r.p.m..

For powerplant limitations refer to AFM, TP.T67M/FM.

6. Propeller *(See Note 6)*

1 Hoffmann HO-V72L-V/V180CB (Composite type)

LBA Propeller Type Certificate Data Sheet 32.130/19

6.1 Settings

Low pitch setting	14°
High pitch setting	30°

7. Fluids

7.1 Fuel

AVGAS 100 LL

7.2 Oil

Oils conforming to Mil. spec. MIL-L-22851

For more details see AFM, TP.T67M/FM

8. Fluid Capacities

8.1 Fuel

Total:	116.8 litres	25.7 Imp Gallons
Usable:	109 litres	24 Imp Gallons

8.2 Oil

	Maximum: 7.57 litres	8 US qts
	Useable: 6.678 litres	6 US qts
	For more details see AFM, TP.T67M/FM, or T67/MM	

9. Air Speeds

Design Manoeuvring Speed V_A:	up to 907 kg (2000 lb)	140 KIAS
Maximum flap extended speed V_{FE}:	Full flaps	88 KIAS
	Take-off flaps	88 KIAS
Maximum structural cruising speed V_{NO} (= Maximum structural design speed V_C):		140 KIAS
Never Exceed Speed V_{NE}		180 KIAS

10. Maximum Operating Altitude

3658 m (12 000 ft) without oxygen equipment being fitted

11. All weather Capability

Day-VFR	
IMC and Night	see Note 1
IFR	see Note 1

Flight into known icing conditions is prohibited

12. Maximum Total Weight Authorised (MTWA)

Take-off:	907 kg (2000 lb)
Landing:	907 kg (2000 lb)
For Aerobatics:	Refer to AFM TP.T67M/FM Section 2

13. Centre of Gravity Limits at MTWA

Forward limit:	907 kg (2000 lb)	0.810 m (2 ft 7.89 ins) aft of Datum
Aft limit:	907 kg (2000 lb)	0.930 m (3 ft 0.6 ins) aft of Datum

For limits at other weights refer to the T67M Flight Manual ref. TP T67M/FM

14. Datum

Forward face of Frame 1

15. Levelling Means

Levelling board (T67B-88-307) placed on aft fuselage between canopy rail and fin forward fairing

16. Minimum Flight Crew

1 pilot

17. Maximum Passenger Seating Capacity

2, including pilot. This number is limited by the space available in the cabin

18. Baggage/Cargo Compartments

Location behind Seats	Max. Allowable Load 30 kg (66 lbs)

19. Wheels and Tyres

Nose Wheel Tyre Size	5.00 – 5 (minimum 4 ply rating)
Main Wheel Tyre Size	6.00 – 6 (minimum 4 ply rating)

IV. Operating and Service Instructions *(See Note 6)*

T67M Firefly Aircraft Flight Manual (AFM)	TP.T67M/FM
T67M Firefly Aircraft Maintenance Manual (MM) Incorporates Maintenance Schedule as Part of Section 2 (incl. Airworthiness Limitations) Service, Change (Modification), and Information Bulletins	T67M/MM

V. Notes

1. For IFR flight Night operation refer to the Air Navigation Legislation for equipment required.

2. Aircraft airframe to be overall white, registration letters accepted, or in accordance with paint restrictions quoted in aircraft Flight Manual TP.T67M/FM.

3. Structural temperature restrictions are applicable. Maximum permissible structure temperature for aerobatics is 50°C Post Mod M170 or 40°C Pre Mod M170. Refer aircraft Flight Manual TP.T67M/FM.

4. The following G limits apply See note 5:

Weights:	MTWA 907 kg (2100 lb)	884 kg (1950 lb)
Flaps up:	+4.4	+6
	-1.8	-3
Flaps down:	+2	+2
	-1	-1

Refer Flight Manual TP.T67M/FM for further details

5. For Works number 1999 maximum manoeuvring load factors at MTWA 907 kg (2000 lb) apply as follows:

Flaps up:	+4.4
	-1.8
Flaps down:	+2
	-1

6. The fitment of an MT-12-() Propeller is approved under EASA STC 10070096. The associated technical documentation and limitations/conditions listed in the STC are applicable.

Variant 5 T67M-MkII

I. General

1. Type / Variant or Model

Type	T67
Model	T67M MkII Firefly

2. Airworthiness Category

Normal, Utility and Aerobatic

3. Manufacturer

Slingsby Advanced Composites Limited
Ings Lane
Kirkbymoorside
North Yorkshire
England, YO62 6EZ

II. Certification Basis

1. Reference Date for determining the applicable requirements

20 December 1985

2. Airworthiness Requirements

Requirements Based on US CFR 14 Part 23 at Amendment 23-27 and UK CAA BCARs Section K, Chapters 2-2 to 2-5 and requirements for certification of composite structures as detailed in CAA letter to Slingsby Aviation Limited, reference 9/30/GSL2408 dated 2nd December 1982.

3. Special Conditions

None

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

None

7. Environmental Protection

Refer to CAA certification noise levels

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

SAL DON 205

Drawing No. T67M-00-001 issue 8

2. Description

Single engine, two-seat cantilever low wing airplane, Composite (GRP) construction, fixed tricycle landing gear, conventional tail.

3. Equipment

(28 volt DC system)

Refer document SAL DON 110

4. Dimensions

Span:	10.6m	(34ft	9¼in)
Length:	7.29m	(23ft	11in)
Height: (Pre Mod M468)	2.36m	(7ft	9in)
Height: (Post Mod M468)	2.29m	(7ft	6in)
Wing Area:	12.60m^2	(135.63 ft^2)	

5. Engines

1 Textron Lycoming AEIO-320-D1B

FAA Engine Type Certificate Data Sheet 1E12

5.1 Engine Limits

Max take-off rotational speed 2700 r.p.m.

Max continuous rotational speed 2700 r.p.m..

For powerplant limitations refer to AFM, TP.T67M-MkII/FM.

6. Propeller *(See Note 5)*

1 Hoffmann HO-V72L-V/V180CB (Composite type)

LBA Propeller Type Certificate Data Sheet 32.130/19

6.1 Settings

Low pitch setting	14°
High pitch setting	30°

7. Fluids

7.1 Fuel

AVGAS 100 LL

7.2 Oil

Oils conforming to Mil. spec. MIL-L-22851

For more details see AFM, TP.T67M-MkII/FM

8. Fluid Capacities

8.1 Fuel

Wing Tanks

Total:	161.4 litres	35.5 Imp Gallons

Usable:	157.4 litres	34.62 Imp Gallons

8.2 Oil

Maximum: 7.57 litres	8 US qts
Useable: 6.678 litres	6 US qts
For more details see AFM, TP.T67M-MkII/FM, or /MM	

9. Air Speeds

Design Manoeuvring Speed V_A:	up to 907 kg (2000 lb)	140 KIAS
Flap extended speed V_{FE}: (Pre mod M656)	Full flaps	88 KIAS
	Take-off flaps	88 KIAS
Flap extended speed V_{FE}: (Post mod M656)	Full flaps	98 KIAS
	Take-off flaps	120 KIAS
Maximum structural cruising speed V_{NO} (= Maximum structural design speed V_C):		140 KIAS
Never Exceed Speed V_{NE}		180 KIAS

10. Maximum Operating Altitude

3658 m (12 000 ft) without oxygen equipment being fitted

11. All weather Capability

Day-VFR	
IMC and Night	see Note 1
IFR	see Note 1
Flight into known icing conditions is prohibited	

12. Maximum Total Weight Authorised (MTWA)

Take-off:

(Pre Mod M321)	907 kg (2000 lb)
(Post Mod M321, Pre Mod M537)	953 kg (2100 lb)
(Post Mod M537)	975 kg (2150 lb)

Landing:

(Pre Mod M321)	907 kg (2000 lb)
(Post Mod M321, Pre Mod M537)	953 kg (2100 lb)
(Post Mod M537)	975 kg (2150 lb)

For Aerobatics:

(Pre Mod M321)	907 kg (2000 lb)
(Post Mod M321, Pre Mod M537)	953 kg (2100 lb)
(Post Mod M537)	975 kg (2150 lb)

13. Centre of Gravity Limits at MTWA

Pre Mod M321

Forward limit:	907 kg (2000 lb)	0.840 m (2 ft 9.07 ins) aft of Datum
Aft limit:	907 kg (2000 lb)	0.927 m (3 ft 0.5 ins) aft of Datum

For limits at other weights refer to the T67M-MkII Flight Manual ref. TP T67M-MkII/FM

Post Mod M321, Pre Mod M537

Forward limit:	953 kg (2100 lb)	0.86 m (2 ft 9.86 ins) aft of Datum
Aft limit:	953 kg (2100 lb)	0.914 m (2 ft 11.98 ins) aft of Datum

For limits at other weights refer to the T67M-MkII Flight Manual ref. TP T67M-MkII/FM

Post Mod M537

Forward limit:	975 kg (2150 lb)	0.868 m (2 ft 10.17 ins) aft of Datum
Aft limit:	907 kg (2000 lb)	0.909 m (2 ft 11.79 ins) aft of Datum

For limits at other weights refer to the T67M-MkII Flight Manual ref. TP T67M-MkII/FM

14. Datum

Forward face of Frame 1

15. Levelling Means

Levelling board (T67B-88-307) placed on aft fuselage between canopy rail and fin forwardfairing

16. Minimum Flight Crew

1 pilot

17. Maximum Passenger Seating Capacity

2, including pilot. This number is limited by the space available in the cabin

18. Baggage/Cargo Compartments

Location behind Seats	Max. Allowable Load 30 kg (66 lbs)

19. Wheels and Tyres

Nose Wheel Tyre Size	5.00 – 5 (minimum 4 ply rating)
Main Wheel Tyre Size	6.00 – 6 (minimum 4 ply rating)

IV. Operating and Service Instructions *(See Note 5)*

T67M-MkII Firefly Aircraft Flight Manual (AFM)	TP.T67M-MkII/FM

T67M-MkII Firefly Aircraft Maintenance Manual (MM) T67M-MkII/MM
Incorporates Maintenance Schedule as Part of Section 2
(incl. Airworthiness Limitations)
Service, Change (Modification), and Information Bulletins

V. Notes

1. For IFR flight Night operation refer to the Air Navigation Legislation for equipment required.

2. Aircraft airframe to be overall white, registration letters accepted, or in accordance with paint restrictions quoted in aircraft Flight Manual TP.T67M-MkII/FM.

3. Structural temperature restrictions are applicable refer aircraft Flight Manual TP.T67M-MkII/FM and note 4 below. For Post Mod M734B/D aircraft flight prohibitive above 55°C, for Post Mod M516 Addendum 1 & 2 Works numbers 2116 & 2121 flight prohibitive above 45°C.

4. The following G limits apply:

4.1. Weights: For MTWA up to 975 kg (2150 lb)

	Below 50°C.	50°C and above Refer note 2 above
Flaps up:	+6	+4.4
	-3	-2
Flaps down:	+2	+2
	-1	-1

Refer Flight Manual TP.T67M-MkII/FM for further details

4.2. Post Mod M516 Addendum 1 & 2 Works numbers 2116 & 2121

Weights: For MTWA up to 975 kg (2150 lb)

	Below 42°C.	42°C and above Refer note 2 above
Flaps up:	+6	+4.4
	-3	-2
Flaps down:	+2	+2
	-1	-1

Refer Flight Manual TP.T67M-MkII/FM for further details

5. The fitment of an MT-12-() Propeller is approved under EASA STC 10070096. The associated technical documentation and limitations/conditions listed in the STC are applicable.

Variant 6 T67M200

I. General

1. Type / Variant or Model

Type	T67
Model	T67M200 Firefly

2. Airworthiness Category

Normal, Utility and Aerobatic

3. Manufacturer

Slingsby Advanced Composites Limited
Ings Lane
Kirkbymoorside
North Yorkshire
England, YO62 6EZ

II. Certification Basis

1. Reference Date for determining the applicable requirements

2 December 1982

2. Airworthiness Requirements

Requirements Based on US CFR 14 Part 23 at Amendment 23-27 and UK CAA BCARs Section K, Chapters 2-2 to 2-5 and requirements for certification of composite structures as detailed in CAA letter to Slingsby Aviation Limited, reference 9/30/GSL2408 dated 2nd December 1982.

3. Special Conditions

None

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

None

7. Environmental Protection

Refer to CAA certification noise levels

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

SAL DON 200 (Post Mod M150)

Drawing No. T67F-00-001

2. Description

Single engine, two-seat cantilever low wing airplane, Composite (GRP) construction, fixed tricycle landing gear, conventional tail.

3. Equipment

(28 volt DC system)

Refer document SAL DON 200

4. Dimensions

Span:	10.6m	(34ft	9¼in)
Length:	7.323m	(24ft	2in)
Height: (Pre Mod M468)	2.36m	(7ft	9in)
Height: (Post Mod M468)	2.29m	(7ft	6in)
Wing Area:	12.60m^2	(135.63 ft^2)	

5. Engines

(Pre Mod M917) 1 Textron Lycoming AEIO-360-A1E

FAA Engine Type Certificate Data Sheet 1E10

(Pre Mod M917) 1 Textron Lycoming AEIO-360-A1E6

FAA Engine Type Certificate Data Sheet 1E10

5.1 Engine Limits

Max take-off rotational speed 2700 r.p.m.

Max continuous rotational speed 2700 r.p.m..

For powerplant limitations refer to AFM, TP.T67M200/FM or T67M200/CS/POH

6. Propellers

(Pre Mod M333) 1 Hoffmann HO-V123K-V/180R (Composite type)

LBA Propeller Type Certificate Data Sheet 32.130/17

(Post Mod M333, Pre Mod M822) 1 Hoffmann HO-V123K-V/180DT (Composite type)

LBA Propeller Type Certificate Data Sheet 32.130/17

(Post Mod M822) 1 Hoffmann HO-V123K-KV/180DT (Composite type)

LBA Propeller Type Certificate Data Sheet 32.130/17

6.1 Settings

(Pre Mod M333)	Low pitch setting	14°
	High pitch setting	32-34°

(Post Mod M333, Pre Mod M822)	Low pitch setting	10° 50’
	High pitch setting	26°
(Post Mod M822)	Low pitch setting	10° 50’
	High pitch setting	26°

7. Fluids

7.1 Fuel

AVGAS 100 LL

7.2 Oil

Oils conforming to Mil. spec. MIL-L-22851

For more details see AFM, TP.T67M200/FM or T67M200/CS/POH

8. Fluid Capacities

8.1 Fuel

Wing Tanks		
Total:	161.4 litres	35.5 Imp Gallons
Usable:	157.4 litres	34.62 Imp Gallons

8.2 Oil

Maximum: 7.57 litres	8 US qts
Useable: 6.678 litres	6 US qts

For more details see AFM, TP.T67M200/FM or T67M200/CS/POH

9. Air Speeds

Design Manoeuvring Speed V_A:	up to 1020kg (2250 lb)	140 KIAS
Flap extended speed V_{FE}: (Pre mod M656)	Full flaps	88 KIAS
	Take-off flaps	88 KIAS
Flap extended speed V_{FE}: (Post mod M656)	Full flaps	98 KIAS
	Take-off flaps	120 KIAS
Maximum structural cruising speed V_{NO} (= Maximum structural design speed V_C):		140 KIAS
Never Exceed Speed V_{NE}		180 KIAS

10. Maximum Operating Altitude

3658 m (12 000 ft) without oxygen equipment being fitted

11. All weather Capability

Day-VFR	
IMC and Night	see Note 1
IFR	see Note 1

Flight into known icing conditions is prohibited

12. Maximum Total Weight Authorised (MTWA)

Take-off:

(Pre Mod M358)	975 kg (2150 lb)
(Post Mod M358, Pre Mod M914)	1020 kg (2250 lb)

Landing:

(Pre & Post Mod M358, Pre Mod M914)	975 kg (2150 lb)
(Post Mod M914)	1020 kg (2250 lb)

For Aerobatics:

(Pre & Post Mod M358, Pre Mod M914)	975 kg (2150 lb)
(Post Mod M914)	1020 kg (2250 lb)

13. Centre of Gravity Limits at MTWA

Pre Mod M358

Forward limit:	975 kg (2150 lb)	0.823 m (2 ft 8.4 ins) aft of Datum
Aft limit:	975 kg (2150 lb)	0.888 m (2 ft 10.96 ins) aft of Datum

For limits at other weights refer to the T67M200 Flight Manual TP.T67M200FM

Post Mod M358, Pre Mod M914 and Post Mod M914

Forward limit:	1020 kg (2250 lb)	0.843 m (2 ft 9.19 ins) aft of Datum
Aft limit:	1020 kg (2250 lb)	0.888 m (2 ft 10.45 ins) aft of Datum

For limits at other weights refer to the T67M200 Flight Manual TP.T67M200FM or or T67M200/CS/POH.

14. Datum

Forward face of Frame 1

15. Levelling Means

Levelling board (T67B-88-307) placed on aft fuselage between canopy rail and fin forward fairing

16. Minimum Flight Crew

1 pilot

17. Maximum Passenger Seating Capacity

2, including pilot. This number is limited by the space available in the cabin

18. Baggage/Cargo Compartments

Location behind Seats	Max. Allowable Load 30 kg (66 lbs)

19. Wheels and Tyres

Nose Wheel Tyre Size	5.00 – 5 (minimum 4 ply rating)
Main Wpoheel Tyre Size	6.00 – 6 (minimum 4 ply rating)

IV. Operating and Service Instructions

T67M200 Firefly Aircraft Flight Manual (AFM)	TP.T67M200/FM Or T67M200/CS/POH
T67M200 Firefly Aircraft Maintenance Manual (MM) Incorporates Maintenance Schedule as Part of Section 2 (incl. Airworthiness Limitations) Service, Change (Modification), and Information Bulletins	T67M200/MM

V. Notes

1. For IFR flight Night operation refer to the Air Navigation Legislation for equipment required.

2. Aircraft airframe to be overall white, registration letters accepted, or in accordance with paint restrictions quoted in aircraft Flight Manual TP.T67M200/FM or TP.T67M200/CS/POH.

3. Structural temperature restrictions are applicable. Post Mod M387 & M734A/C aircraft flight prohibitive above 55°C. Refer aircraft Flight Manual TP.T67M200/FM or T67M200/CS/POH and note 4 below.

4. The following G limits apply

4.1. Weights: For MTWA up to 975 kg (2150 lb)

	Below 50°C.	50°C and above
Flaps up:	+6	+4.4
	-3	-2
Flaps down:	+2	+2
	-1	-1

4.2. Weights: For MTWA above 975 kg (2150 lb)

	Below 50°C.	50°C and above
Flaps up:	+3.8	+3.8
	-1.6	-1.6
Flaps down:	+2	+2
	-1	-1

4.3. Post Mod M915 aircraft

Weights: For MTWA up to 1020 kg (2250 lb)

	Below 50°C.	50°C and above
Flaps up:	+6	+4.4
	-3	-2
Flaps down:	+2	+2
	-1	-1

Refer Flight Manual TP.T67M200/FM or T67M200/CS/POH for further details.

Variant 7 T67M260

I. General

1. Type / Variant or Model

Type	T67
Model	T67M260 Firefly

2. Airworthiness Category

Normal, Utility and Aerobatic

3. Manufacturer

Slingsby Advanced Composites Limited
Ings Lane
Kirkbymoorside
North Yorkshire
England, YO62 6EZ

II. Certification Basis

1. Reference Date for determining the applicable requirements

Not known

2. Airworthiness Requirements

JAR 23 Light Aeroplanes at Draft Issue 4. Features and characteristics not directly related to increased power and weight over that of the T67M200 meet the certification basis specified in the proceeding Sections B through to F above, T67B through to T67M200 respectively.

Requirements for which compliance was not required as under the derivative principle they relate to features not affected by increased power or weight over that of previous models:-

JAR 23.1091(b)(4) & (5)	Air induction system
JAR 23.1143(g)	Auxiliary power unit controls
JAR 23.1553	Fuel quantity indication

3. Special Conditions

Refer to Note 5

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

Refer to Note 6

7. Environmental Protection

Refer to CAA certification noise levels

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

Doc. No. T67G-900-022 (Post Mod M700)

Drawing No. T67G-00-001

2. Description

Single engine, two-seat cantilever low wing airplane, Composite (GRP) construction, fixed tricycle landing gear, conventional tail.

3. Equipment

(28 volt DC system)

Refer document T67G-900-022

4. Dimensions

Span:	10.6m	(34ft 9¼in)
Length:	7.54m	(24ft 9in)
Height:	2.29m	(7ft 6in)
Wing Area:	12.60m^2	(135.63 ft^2)

5. Dimensions

1 Textron Lycoming AEIO-540-D4A5

FAA Engine Type Certificate Data Sheet 1E4

UK CAA validated 8th November 1993

5.1 Engine Limits

Max take-off rotational speed 2700 r.p.m.

Max continuous rotational speed 2700 r.p.m..

For powerplant limitations refer to AFM, T67M260/POH.

6. Propeller *(See Note 7)*

1 Hoffmann HO-V123K-KV/180DT (Composite type)

LBA Propeller Type Certificate Data Sheet 32.130/17

6.1 Settings

Low pitch setting	10° 50’
High pitch setting	26°

7. Fluids

7.1 Fuel

AVGAS 100 LL

7.2 Oil

Oils conforming to Mil. spec. MIL-L-22851

For more details see AFM, T67M260/POH

8. Fluid Capacities

8.1 Fuel

Wing Tanks		
Total:	161.4 litres	35.5 Imp Gallons
Usable:	157.4 litres	34.62 Imp Gallons

8.2 Oil

Maximum: 11.36 litres	12 US qts
Minimum: 5.68 litres	6 US qts

For more details see AFM, T67M260/POH

9. Air Speeds

Design Manoeuvring Speed V_A:	up to 1157 kg (2550 lb)	140 KIAS
Maximum flap extended speed V_{FE}:	Full flaps	98 KIAS
	Take-off flaps	120 KIAS
Maximum structural cruising speed V_{NO} (= Maximum structural design speed V_C):		156 KIAS
Never Exceed Speed V_{NE}		195 KIAS

10. Maximum Operating Altitude

3048 m (10 000 ft) without oxygen equipment being fitted

11. All weather Capability

Day-VFR	
IMC and Night	see Note 1
IFR	see Note 1

Flight into known icing conditions is prohibited

12. Maximum Total Weight Authorised (MTWA)

Take-off:	
(Pre Mod M605)	1146 kg (2525 lb)
(Post Mod M605)	1157 kg (2550 lb)
Landing:	
(Pre Mod M605)	1146 kg (2525 lb)
(Post Mod M605)	1157 kg (2550 lb)

For Aerobatics:

(Pre Mod M605)	1146 kg (2525 lb)
(Post Mod M605)	1157 kg (2550 lb)

13. Centre of Gravity Limits at MTWA

Pre Mod M605

Forward limit:	1146 kg (2525 lb)	0.784 m (2 ft 6.9 ins) aft of Datum
Aft limit:	1146 kg (2525 lb)	0.866 m (2 ft 10.1 ins) aft of Datum

Post Mod M605

Forward limit:	1157 kg (2550 lb)	0.787 m (2 ft 7 ins) aft of Datum
Aft limit:	1157 kg (2550 lb)	0.864 m (2 ft 10 ins) aft of Datum

For limits at other weights refer to the T67M260 Flight Manual T67M260/POH

14. Datum

Forward face of Frame 1

15. Levelling Means

Levelling board (T67B-88-307) placed on aft fuselage between canopy rail and fin forward fairing

16. Minimum Flight Crew

1 pilot

17. Maximum Passenger Seating Capacity

2, including pilot. This number is limited by the space available in the cabin

18. Baggage/Cargo Compartments

Location behind Seats	Max. Allowable Load 30 kg (66 lbs)

19. Wheels and Tyres

Nose Wheel Tyre Size	5.00 – 5 (minimum 4 ply rating)
Main Wheel Tyre Size	6.00 – 6 (minimum 4 ply rating)

IV. Operating and Service Instructions *(See Note 7)*

T67M260 Firefly Aircraft Flight Manual (AFM)	T67M260/POH
T67M260 Firely Aircraft Maintenance Manual (MM) Incorporates Maintenance Schedule as Part of Section 2 (incl. Airworthiness Limitations) Service, Change (Modification), and Information Bulletins	T67M260/MM

V. Notes

1. For IFR flight Night operation refer to the Air Navigation Legislation for equipment required.

2. Aircraft airframe to be overall white, registration letters accepted, or in accordance with paint restrictions quoted in aircraft Flight Manual T67M260/POH.

3. Structural temperature restrictions are applicable, aircraft flight prohibitive above 55°C. Refer aircraft Flight Manual T67M260/POH and note 4 below.

4. The following G limits apply:

4.1. Post Mod M725A

Weights: For MTWA up to 975 kg (2150 lb)

	Below 50°C.	50°C and above
Flaps up:	+6	+4.4
	-3	-2
Flaps down:	+3	+3
	-1	-1

4.2 Post Mod M950

Weights: For MTWA above 975 kg (2150 lb)

	Below 50°C.	50°C and above
Flaps up:	+3.8	+3.8
	-1.6	-1.6
Flaps down:	+2	+2
	-1	-1

5. The following CAA Airworthiness Notes apply:

Airworthiness Notice No. 76	Electrical powersupplies for aircraft radio systems
Airworthiness Notice No. 88	Electrical generation systems bus-bar low voltage warning. Special Conditions relating to highintensity radiation fields, (HIRF), and the direct and indirect effects of lightning.

6. Item of Equivalent Safety

JAR 23.961 requires that the fuel systems must be free from vapour lock when using fuel at a temperature of 110°F.
This is approved on the basis of equivalent safety from tests conducted using fuel at 106°F, satisfactory experience with the similar T67M200 and the high fuel flow margin provided by the fuel pump.
SAL FTR 042 cleared the T67M260 variant to 110°F (43.3°C) this showing compliance with JAR 23.961.

7. The fitment of an MTV-9-B-C/C180-50() Propeller is approved under UK.STC.00157. The associated technical documentation and limitations/conditions listed in the STC are applicable.

Variant 8 T67M260-T3A

I. General

4. Type / Variant or Model

Type	T67
Model	T67M260 T-3A Firefly

5. Airworthiness Category

Normal, Utility and Aerobatic

6. Manufacturer

Slingsby Advanced Composites Limited
Ings Lane
Kirkbymoorside
North Yorkshire
England, YO62 6EZ

II. Certification Basis

1. Reference Date for determining the applicable requirements

Not Known

2. Airworthiness Requirements

14 CFR Part 23 dated February 1st 1965 amended through amendment 23-42 effective February 4th 1991 and those paragraphs in Subpart C, Emergency Landing Conditions, as amended through amendment 23-35, effective October 11th 1988.

3. Special Conditions

Refer to Note 5

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

Refer to Note 6

7. Environmental Protection

Refer to CAA certification noise levels

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

Doc. No. T67G-900-006 (Post Mod M500)

Drawing No. T67G-00-001

2. Description

Single engine, two-seat cantilever low wing airplane, Composite (GRP) construction, fixed tricycle landing gear, conventional tail.

3. Equipment

(28 volt DC system)

Refer document T67G-900-006

4. Dimensions

Span:	10.6m	(34ft	9¼in)
Length:	7.54m	(24ft	9in)
Height:	2.29m	(7ft	6in)
Wing Area:	12.60m^2	(135.63 ft^2)	

5. Engines

1 Textron Lycoming AEIO-540-D4A5

FAA Engine Type Certificate Data Sheet 1E4

UK CAA validated 8th November 1993

5.1 Engine Limits

Max take-off rotational speed 2700 r.p.m.

Max continuous rotational speed 2700 r.p.m..

For powerplant limitations refer to AFM, T.O 1T-3A-1

6. Propeller

1 Hoffmann HO-V123K-KV/V180DT (Composite type)

LBA Propeller Type Certificate Data Sheet 32.130/17

6.1 Settings

Low pitch setting	10° 50’
High pitch setting	30°

7. Fluids

7.1 Fuel

AVGAS 100 LL

7.2 Oil

Oils conforming to Mil. spec. MIL-L-22851

For more details see AFM, T.O 1T-3A-1

8. Fluid Capacities

8.1 Fuel

Wing Tanks

Total:	161.4 litres	35.5 Imp Gallons	42.54 US Gallons

Usable:	157.4 litres	34.62 Imp Gallons	41.51 US Gallons

8.2 Oil

	Maximum: 11.36 litres	12 US qts
	Minimum: 5.68 litres	6 US qts
	For more details see AFM, T.O 1T-3A-1	

9. Air Speeds

Design Manoeuvring Speed V_A:	up to 1157 kg (2550 lb)	140 KIAS
Maximum flap extended speed V_{FE}:	Full flaps	98 KIAS
	Take-off flaps	120 KIAS
Maximum structural cruising speed V_{NO} (= Maximum structural design speed V_C):		156 KIAS
Never Exceed Speed V_{NE}		195 KIAS

10. Maximum Operating Altitude

3810 m (12 500 ft)

11. All weather Capability

Day-VFR	
IMC and Night	see Note 1
IFR	see Note 1

Flight into known icing conditions is prohibited

12. Maximum Total Weight Authorised (MTWA)

Take-off:	
(Pre Mod M605)	1146 kg (2525 lb)
(Post Mod M605)	1157 kg (2550 lb)
Landing:	
(Pre Mod M605)	1146 kg (2525 lb)
(Post Mod M605)	1157 kg (2550 lb)
For Aerobatics:	
(Pre Mod M605)	1146 kg (2525 lb)
(Post Mod M605)	1157 kg (2550) lb

13. Centre of Gravity Limits at MTWA

Pre Mod M605

Forward limit:	1146 kg (2525 lb)	0.784 m (2 ft 6.9 ins) aft of Datum
Aft limit:	1146 kg (2525 lb)	0.866 m (2 ft 10.1 ins) aft of Datum

Post Mod M605

Forward limit:	1157 kg (2550 lb)	0.787 m (2 ft 7 ins) aft of Datum
Aft limit:	1157 kg (2550 lb)	0.864 m (2 ft 10 ins) aft of Datum

For limits at other weights refer to the T67M260-T3A Flight Manual ref. T.O 1T-3A-1

14. Datum

Forward face of Frame 1

15. Levelling Means

Levelling board (T67B-88-307) placed on aft fuselage between canopy rail and fin forward fairing

16. Minimum Flight Crew

1 pilot

17. Maximum Passenger Seating Capacity

2, including pilot. This number is limited by the space available in the cabin

18. Baggage/Cargo Compartments

Location behind Seats	Max. Allowable Load 30 kg (66 lbs)

19. Wheels and Tyres

Nose Wheel Tyre Size	5.00 – 5 (minimum 4 ply rating)
Main Wheel Tyre Size	6.00 – 6 (minimum 4 ply rating)

IV. Operating and Service Instructions

T67M260 T-3A Firefly Aircraft Flight Manual (AFM) T-3A (USAF designation) version only has been approved by the UK CAA on behalf of the FAA, for military operation only	T.O 1T-3A-1
T67M260 T-3A Firefly Aircraft Maintenance Manual (MM) Incorporates Maintenance Schedule as Part of Section 2 (incl. Airworthiness Limitations) Service, Change (Modification), and Information Bulletins	T-3A/MM

V. Notes

1. For IFR flight Night operation refer to the Air Navigation Legislation for equipment required.

2. Aircraft airframe to be overall white, registration letters accepted, or in accordance with paint restrictions quoted in aircraft Flight Manual T.O 1T-3A-1.

3. Structural temperature restrictions are applicable; aircraft flight prohibitive above 55°C. Refer aircraft Flight Manual T.O 1T-3A-1 and note 4 below.

4. The following G limits apply

4.1. Post Mod M725A

Weights:	For MTWA up to 975 kg (2150 lb)		
		Below 50°C.	50°C and above

Flaps up:	+6	+4.4
	-3	-2
Flaps down:	+3	+3
	-1	-1

5. The following CAA Airworthiness Notes apply:

Airworthiness Notice No. 76	Electrical powersupplies for aircraft radio systems
Airworthiness Notice No. 88	Electrical generation systems bus-bar low voltage warning. Special Conditions relating to highintensity radiation fields, (HIRF), and the direct and indirect effects of lightning.

6. Item of Equivalent Safety

JAR 23.961 requires that the fuel systems must be free from vapour lock when using fuel at a temperature of 110°F.
This is approved on the basis of equivalent safety from tests conducted using fuel at 106°F, satisfactory experience with the similar T67M200 and the high fuel flow margin provided by the fuel pump.
SAL FTR 042 cleared the T67M260T-3A variant to 110°F (43.3°C) this showing compliance with JAR 23.961.

SECTION 2: Airworthiness Directives

(Here list all applicable Airworthiness Directives for this aircraft type existing at the time of issue of this SAS.

AD	Date	Heading	Ref.	Issuing Authority
2007-0132	11 May 2007	Flight Controls – Rudder Pedals and Floor –Inspection	Model T67B, T67C series, T67M, T67M-MkII, T67M200, T67M260 And T67M260-T3A, all serial numbers.	EASA
2009-0013	28 January 2009	Flight Controls - Rudder Pedal and Ground Towing Damage – Inspection / Repair / Modification	Model T67B, T67C series, T67M (excluding Works No. 1999), T67M-MkII, T67M200, T67M260 and T67M260-T3A, all serial numbers	EASA
2009-0218	12 October 2009	Flight Controls - Rudder Pedal Clearances and Floor Reinforcement - Inspection / Modification	Model T67B, T67C series, T67M (excluding Works No. 1999), T67M-MkII, T67M200, T67M260 and T67M260- T3A, all serial numbers	EASA
2011-0240	16 December 2011	Landing Gear – Main Landing Gear Legs – Inspection / Replacement	T67A aeroplanes, all serial numbers, if modified in accordance with Slingsby Modification (Mod) M136B, and T67B, T67C, T67M, T67M-MkII and T67M200 aeroplanes, all serial numbers, except those that have been modified in accordance with Slingsby Mod M468	EASA
2012-0169	31 August 2012	Stabilizers – Horizontal Stabilizer Attachment Brackets – Inspection / Replacement	Model T67A, T67B, T67C, T67M, T67M-MkII, T67M200 and T67M260 aeroplanes, all serial numbers.	EASA
2015-0065-E	24 April 2015	Flight Controls – Brake Master Cylinder Pivot Pins – Inspection / Replacement	T67B, T67C, T67M, T67M-MkII, T67M200 and T67M260 aeroplanes, all serial numbers.	EASA
2016-0214	27 October 2016	Flight Controls – Brake Master Cylinder Pivot Pins – Inspection / Replacement	T67B, T67C, T67M, T67M-MkII, T67M200 and T67M260 aeroplanes, all serial numbers	EASA
2020-0226-E	16 October 2020	Propeller Hub – Inspection / Replacement	Models T67M & T67M MkII	EASA
G-2004-0013	21 June 2004	STRUCTURES - INSPECTION OF ALUMINIUM COMPONENTS FOR EXFOLIATION	T67A, T67B, T67C Series, T67M, T67M-MKII, T67M200, T67M260 and T67M260- T3A aeroplanes, certificated in any category	UK-CAA
G-2005-0004	18 January 2005	INSPECTION OF TAILPLANE BRACKETS	Model T67 all Series aeroplanes	UK-CAA
G-2005-0032	19 October 2005	INSPECTION OF TAILPLANE AND BRACKETS	Model T67A aeroplanes	UK-CAA

The related Service Bulletins, as listed in Annex I to this SAS, are available here:
https://marshalladg.com/legal/t67-firefly/service-bulletin

In the short term, this list should be at least the numbers and titles of each applicable AD and a source from which more information can be obtained. It is acceptable to include instead a link to published ADs located on an NAA website.

In the longer term, this will list ADs titles, text and associated Service Bulletins

SECTION 3: Occurrence Reporting

The Specific Airworthiness Specification may be used as a basis for the issue of a Restricted Certificate of Airworthiness in accordance with 21.A.173(b)(2) under the following conditions:

a) The holder of a Restricted Certificate of Airworthiness based on this Specific Airworthiness Specification shall report to the State of Registry all information related to occurrences associated with the operation of the aircraft which affects or could affect the safety of operation. AMC 20-8 contains guidance describing the occurrences which are to be reported.

b) Such reports shall be dispatched within 72 hours of the time when the occurrence was identified unless exceptional circumstances prevent this.

SECTION 4: Other Limitations

This aircraft is limited to non-commercial operations. [as applicable]

[Additional limitations may be necessary, as found necessary to reduce the risks associated with deficiencies in the reporting chain in Section 3. These may be based on the expectation that specific maintenance may be required due to aircraft ageing, etc.]

SECTION 5: Administrative

Change Record

Issue	Date	Changes
Issue 1	1 Aug 2022	Initial Issue. All data taken from EASA.SAS.A.390 which has been superseded. Clarification of alternative propeller for the T67M and T67M-MKII. Addition of alternative propeller for the T67M260 as approved under UK.STC.00157.

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