European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET

EASA.A.563

SKYCAR

Type Certificate Holder:

OMA SUD SPA
Sky Technologies
Via Marra Loc. Silvagni
81043 Capua (CE)
Italy

For model: SKYCAR

Issue 3; 09 July 2010

CONTENT

SECTION 1 SKYCAR

A.I. General

Data Sheet No.EASA.A.563

1. a) Type: SKYCAR

2. Airworthiness Category:
   a) Normal

3. Type Certificate Holder:
   OMA SUD SPA
   Sky Technologies
   Via Marra Loc. Silvagni
   81043 Capua (CE)
   Italy
   EASA.21J.257

4. Manufacturer:
   OMA SUD SPA
   Sky Technologies
   Via Marra Loc. Silvagni
   81043 Capua (CE)
   Italy
   IT.21G.0038

5. Certification Application Date: Original Application 17-May-2004
   Extension Application 28-Aug-2008

6. EASA Recommendation Date : 08 January 2010

7. EASA Certification Date: 08 January 2010

A.II. Certification Basis

1. Reference Date for determining the applicable requirements: 01-Jan-2007

2. (Reserved)

3. (Reserved)

4. Certification Basis: As defined in CRI A-01, latest Issue

5. Airworthiness Requirements: CS-23, effective 14-Nov-2003

6. Requirements elected to comply: CS-23.1305 (b)(3) “Powerplant instruments”

7. Special Conditions: CRI F-01 HIRF Protection

8. (Reserved):

9. Equivalent Safety Findings: CRI F-11 "Installation of PFD with primary heading information on the top through heading tape"

CRI E-02 "Cowling and nacelle fire protection"

10. Environmental Standards: CS-36
ICAO, Annex 16, Volume 1, Fourth Edition, July 2005

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Doc.No SKC-00-04-01

2. Description: Twin engine, four or five seats, high wing airplane, retractable tricycle landing gear, double T-Tail with high horizontal tail plane

3. Equipment: Equipment list, Doc.No SKC-00-38-03

4. Dimensions:

Span	12 m	(39 ft 4 in)
Length	8.92 m	(29 ft 3 in)
Height	2.7 m	(8 ft 9 in)
Wing Area	16.8 m²	(181 sqft)

5. Engines: 2 Textron Lycoming IO-360-C1E6
(see EASA list ref. 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 power-plants limits refer to AFM Doc. No SKC-00-38-01

6. (Reserved)

7. Propellers: 2 Hartzell HC-C2YR-2CLUF/FLC7666A-4
(see EASA list ref. FAA TCDS nr. P-920)

7.1 Propeller limits

Maximum Diameter	1880 mm (74 in)
Minimum Diameter	1829 mm (72 in)

8. Fluids:

8.1 Fuel:	AVGAS 100 LL
8.2 Oil:	Oils conforming to spec. SAE J1899 / MIL-L-22851 For more details see AFM, SKC-00-38-01, Section 1
8.3 Brake	MIL-PRF-83282
8.4 Shock Absorber	MIL-H-5606 colour red

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank	Total:	2x250 litres	(2x66 US Gallons)
	Usable:	2x236 litres	(2x62 US Gallons)
9.2 Oil:	Maximum:	2x7,58 litres	(2x2 US Gallons)
	Minimum:	2x1,90 litres	(2x2 US Gallons)

10. Air Speeds:

Minimum Control Speed V_{MC}		69 KIAS	(69 KCAS)
Design Manoeuvring Speed V_A:		134 KIAS	(132 KCAS)
Flap Extended Speed V_{FE}:	Flap setting: 15°	140 KIAS	(140 KCAS)
	Flap setting: 35°	109 KIAS	(110 KCAS)
Maximum structural cruising speed V_{NO} (= Maximum structural design speed V_C):		152 KIAS	(150 KCAS)
Never exceed speed V_{NE}:		168 KIAS	(168 KCAS)
Maximum Landing Gear Extended Speed V_{LE}		130 KIAS	(130 KCAS)
Maximum Landing Gear Operating Speed V_{LO}		130 KIAS	(130 KCAS)

11. Maximum Operating Altitude: 5486.4 m (18000 ft)

12. All weather Capability:
Day-VFR
Night VFR
Day and Night IFR Single Pilot
The flight cannot be operated in known icing condition.

13. Maximum Masses:

Take-off	1995 kg (4398 lb)
Landing	1895 kg (4178 lb)

14. Centre of Gravity Range:

Forward limit
- 0.336 m (13.23 inches) equivalent to 24% of MAC, aft of datum at MTOW;
- 0.308 m (12.13 inches) equivalent to 22% of MAC aft of datum at 1825 kg (4023 lbs) or less.

Straight line variation between points indicated.

Rear limit:
- 0.504 m (19.84 inches) equivalent to 36% of MAC, aft of datum at MTOW;

15. Datum: The datum line is located at wing leading edge.

16. (reserved)

17. Levelling Means: Longitudinal: pilot seat RH sliding track
Lateral: across the pilot seat sliding tracks

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 3 (see note 2)

20. (Reserved)

21. Baggage / Cargo Compartments

Location	Max. allowable Load
Behind Rear Seats	334 kg(735 lb) See note 1

22. Wheels and Tyres

Nose Wheel Tyre Size	5.00 – 5
Main Wheel Tyre Size	6.00 – 6
	For approved Types and rating see AMM, Doc. No. SKC-00-39-01

A.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Document No. SKC-00-38-01
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Document No. SKC-00-39-01
Service Information and Service Bulletins	

A.V. Notes

Note 1: the baggage compartment is divided in two areas.
Zone A behind rear seats Max. allowable Load 200 kg (440 lb)
Zone B behind rear seats Max. allowable Load 134 kg (295 lb)

Note 2: Maximum passengers seating capacity is 4, when Change to Type Design SKC.03/2010 “Rear Three Seats Bench Installation” is included.

ADMINISTRATIVE SECTION

I. Acronyms
N/A

II. Type Certificate Holder Record:

OMA SUD SPA Sky Technologies

III. Change Record

Issue	Date	Changes	TC Issue No. & Date
1	08 January 2010	Initial Issue	8 January 2010
2	28 June 2010	Modified sec. A.III points 1, 3 and 12 Single Pilot IFR Operation	8 January 2010
3	09 July 2010	Modified sec. A.III points 2, and 19; Note 2 added. Revised standardised TCDS format	8 January 2010