



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.A.385

for

Vulcanair P.68

Type Certificate Holder:

Vulcanair S.p.A.

Via Giovanni Pascoli, 7
80026 - Casoria (Napoli)
ITALY

For models: AP68TP-300 "Spartacus"
AP68TP-600 "Viator"
P.68 "Observer 2"
P.68 "Observer"
P.68 "Victor"
P.68B "Victor"
P.68C
P.68C-TC
P.68R "Victor"
P.68TC "Observer"



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Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **AP68TP-300 “Spartacus”**

Engine Manufacturer¹ **Allison** Engine Type Designation¹ **250-B17C**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C13388	Hartzell Propeller Inc.	HC-B3TF-7A/T10173BF-21R	None	2,600	71.9	80.0	-
C2338	Hartzell Propeller Inc.	HC-B3TF-7A/T10173F-21R	None	2,600	71.9	80.0	-
C9750	Hartzell Propeller Inc.	HC-B3TF-7A/T10173FN-21R	None	2,600	71.9	80.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **AP68TP-600 “Viator”**

Engine Manufacturer¹ **Allison** Engine Type Designation¹ **250-B17C**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C13389	Hartzell Propeller Inc.	HC-B3TF-7A/T10173BF-21R	None	3,000	79.5	88.0	-
C5060	Hartzell Propeller Inc.	HC-B3TF-7A/T10173F-21R	None	3,000	79.5	88.0	-
C9749	Hartzell Propeller Inc.	HC-B3TF-7A/T10173FN-21R	None	3,000	79.5	88.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68 “Observer 2”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C5474	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	2,084	72.7	88.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68 “Observer”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C3859	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A(B)-4	None	1,960	73.7	80.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68 “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C3424	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,960	76.4	88.0	2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68 “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C15308	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	Service Bulletins No. 21 & No. 160 (Increase in MTOM)	1,990	73.6	80.0	-
C5670	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,860	73.2	80.0	2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68 “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ -

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C9744	Hartzell Propeller Inc.	HC-C2YK-2C()/C7666A-4	None	1,960			2
C9742	Hartzell Propeller Inc.	HC-C2YK-2C()/C7666A-4	None	1,860			2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68 “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C14347	Hartzell Propeller Inc.	HC-C2YK-2C(J)/FC7666A-4	Service Bulletins No. 21 & No. 160 (Increase in MTOM)	1,990	73.6	80.0	-
C5671	Hartzell Propeller Inc.	HC-C2YK-2C(J)/FC7666A-4	None	1,860	73.2	80.0	2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68 “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ -

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C9745	Hartzell Propeller Inc.	HC-C2YK-2C()/C7666A-4	None	1,960			2
C9743	Hartzell Propeller Inc.	HC-C2YK-2C()/C7666A-4	None	1,860			2
C9746	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,960			2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68B “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C3426	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,990	76.4	88.0	-
C3427	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,960	76.4	88.0	2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68B “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ -

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C9748	Hartzell Propeller Inc.	HC-C2YK-2C(F)/FC7666A-4	None	1,960			2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68B “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C3428	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,960	76.4	88.0	2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68B “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C3876	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,990	73.6	80.0	2
C3877	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,960	74.8	80.0	2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68B “Victor”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ -

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C9747	Hartzell Propeller Inc.	HC-C2YK-2C(F)/FC7666A-4	None	1,960			2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C5726	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	2,084	77.6	88.0	-
C3429	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,990	76.4	88.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C3880	Hartzell Propeller Inc.	HC-C2YK-2C(F)/FC7666A-4	None	1,990	73.7	80.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C-TC**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **TIO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C10438	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-0	Modification P68/073 (Increase of MTOM)	2,084	83.2	88.0	-
C3431	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-0	None	1,990	80.4	88.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C-TC**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **TIO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C3430	Hartzell Propeller Inc.	HC-C2YK-2C(F)/FC7666A-0	None	1,990	74.6	80.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C-TC**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **TO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C3433	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-0	None	1,990	80.4	88.0	-

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C-TC**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **TO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C3432	Hartzell Propeller Inc.	HC-C2YK-2C(F)/FC7666A-0	None	1,990	74.6	80.0	-

¹ See Note 1.



Type Certificate Holder ¹	Vulcanair S.p.A.	Aircraft Type Designation ¹	P.68R “Victor”
Engine Manufacturer ¹	Lycoming Engines	Engine Type Designation ¹	IO-360-A1B
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 10 (10.4a)

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C8955	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,960	76.4	88.0	2

¹ See Note 1.



Type Certificate Holder ¹	Vulcanair S.p.A.	Aircraft Type Designation ¹	P.68R “Victor”
Engine Manufacturer ¹	Lycoming Engines	Engine Type Designation ¹	IO-360-A1B6
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 10 (10.4a)

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C9911	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	Modification P68/151 (Increase of MTOM)	2,063	78.8	88.0	-
C9758	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-4	None	1,960	76.4	88.0	2

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68TC “Observer”**

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ **T10-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C10391	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-0	None	2,084	83.2	88.0	-
C3434	Hartzell Propeller Inc.	HC-C2YK-2C()F/FC7666A-0	None	1,960	83.2	88.0	-

¹ See Note 1.



CS-36 Amendment level

ICAO, Annex 16, Volume I Amendment level	7	8	9	10	11-B	12	13
Corresponding CS-36 Amendment level	Initial	1	2	3	4	5	6

TCDSN EASA.A.385 Notes

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.
2. This aircraft type conforms with the provisions of Art 9 (2) of Regulation 2018/1139 without the need to comply with the Standards of ICAO Annex 16, Volume I, by virtue of the date of type certification. However individual examples of this type which were first issued with a certificate of airworthiness on or after 1 January 1980 are required to demonstrate compliance with the Standards of ICAO Annex 16, Volume I, Chapter 6.



Change Record

Issue	Date	Changes
Issue 1	05 November 2009	Initial Issue
Issue 2	12 July 2010	Added records C2338, C9750, C5060, C9749
Issue 3	07 June 2011	Record C10391 added.
Issue 4	21 June 2011	Changed record C10391, added record C10438
Issue 5	06 August 2013	Revised address of TC holder
Issue 6	20 October 2014	Revised
Issue 7	25 July 2017	Records C2338 and C9750 revised; records C13388 and C13389 added
Issue 8	15 September 2020	Added record C14347
Issue 9	05 June 2024	Added record C15308

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