



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

TYPE CERTIFICATE DATA SHEET Nº EM-2012T03

Type Certificate Holder:

SOLO KLEINMOTOREN GMBH
Stuttgarter Strasse 41
Sindelfingen, D71069
Germany

EM-2012T03
Sheet 01
SOLO KLEINMOTOREN
Solo 2625 01
Solo 2625 02
06 March 2012

Engines of models described herein conforming with this data sheet, which is part of Type Certificate No.2012T03, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Aeronautical Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other instructions.

MODEL	SOLO 2625 01, SOLO 2625 02		
TYPE	Twin-cylinder in-line, two-stroke with liquid cooling, contactless dual magneto ignition, pulley for propeller driven the aircraft type and a custom exhaust system.		
RATINGS		Solo 2625 01	Solo 2625 02
	Max. continuous, hp. - rpm. full throttle:	53-6250	64-6500
	Takeoff, hp. - rpm full throttle:	53-6250	64-6500
	The performance values specified above correspond to minimum values defined under the conditions of ICAO or ARDC standard atmosphere.		

Legend: "--" Same as preceding

MODEL		Solo 2625 01	Solo 2625 02
FUEL TYPE	(minimum grade aviation gasoline)	Premium Unleaded 95 RON, AVGAS100LL	---
CARBURETION / INJECTION		Mikuni diaphragm carburetor Typ BN 38	---
OIL, LUBRICATION		Fuel oil mixture 1:50 (2%), CASTROL Super TT or TTS	---
GEAR		See Note 3	---
SENCE OF ROTATION		Clockwise in flight direction	---
BORE AND STROKE	mm (in)	76 x 69 (2.99 x 2.71)	---
DISPLACEMENT	L (cu.in)	0.625 (38.13)	---
COMPRESSION RATIO		9.5:1	---
IGNITION		Dual electronic high-voltage ignition (Ducati Energia) or ISKRA	Dual electronic high-voltage ignition (Ducati Energia)
SPARK PLUGS		BOSCH W5 AC Gap at electrodes 0.5 mm	---
WEIGHT (DRY), WITHOUT EXHAUST SYSTEM	kg (lb)	23 (50.7)	24 (52.91)
PRINCIPAL DIMENSIONS			
	Overall Length, mm (in)	345 (13.58)	350 (13.78)
	Overall Height, mm (in)	408 (16.06)	390 (15.35)
	Width, mm (in)	238 (9.37)	255 (10.03)

Legend: "--" Same as preceding

MODEL	Solo 2625 01	Solo 2625 02
TEMPERATURE LIMITS	See Note 1	---
APPLICABLE NOTES	1,2,3,4,5,6,7,8,9 and 10	---
IMPORT REQUIREMENTS	Each engine imported separately and/or spare parts must be accompanied by an Airworthiness Certificate for Export and/or an Airworthiness Approval Tag, respectively, issued by EASA, attesting that the particular engine and/or parts were submitted to the governmental quality control before delivery and are in conformity with the ANAC approved type design.	

CERTIFICATION BASIS	<u>Model</u>	<u>Application</u>	<u>Issued TC</u>
JAR 22 Change 5 dated 28 October 1995, Subpart H	Solo 2625 01	14/12/2011	06/03/2012
JAR 22 Change 5 dated 28 October 1995, Subpart H	Solo 2625 02	14/12/2011	06/03/2012

NOTES:

NOTE 1	<u>Maximum permissible temperatures:</u>		
	Cylinder head: Water Temperature max. C° (F°)	Solo 2625 01 115 (239)	Solo 2625 02 ---
NOTE 2	<u>Pressure limits:</u>		
	Fuel supply pressure: PSI (bar)	Minimum 2.9 (0.2)	Maximum 5.8 (0.4)
NOTE 3	<u>Gear ratio:</u> According to the ratio of the engine-propeller-diameter pulleys.		
NOTE 4	<u>Aircraft accessory drives:</u> None.		
NOTE 5	<u>Control System:</u> Solo 2625 01: Equipped with one carburetor and a contactless dual magneto ignition. Solo 2625 02: Equipped with two carburetors and a contactless dual magneto ignition.		

NOTE 6 Maximum / Minimum speeds:

Minimum cont. speed, rpm:
 Max. take off and Cont. speed, rpm:
 Maximum Speed, rpm:

Solo 2625 01	Solo 2625 02
2300	---
6250	6500
7000	---

NOTE 7 Oil consumption and capacity limits:

See engine Manual.

NOTE 8 Operation and service instructions:

Manual for engine (Handbuch für den Flugmotor)

Solo 2625 01	Solo 2625 02
Solo Type 2625 01, issue 1 dated 24.09.1997 (*)	Solo Type 2625 02, issue 1 dated 24.09.1997 (*)
Solo 2625 01, ausgabe 1 vom 28.02.1998 (*)	Solo 2625 02, ausgabe 1 vom 28.02.1998 (*)

Service-Anleitung für den Flugmotor

(*) or later approved revisions.

NOTE 9 Special Limits:

The suitability and allowable operating ranges of an engine for use in a specific aircraft/propeller combination are to be demonstrated in the aircraft certification.

NOTE 10 Special Notes:

- The manufacturer documents recorded in this TCDS are binding in the specified issue or later approved revisions.
- For the permitted engine operating hours refer to the relevant operating instructions.
- The deviations of engine Solo 2625 02i with fuel injection are defined in the service bulletin No 4600-3, issue 1, dated 30.09.2010.



HÉLIO TARQUÍNIO JUNIOR

**Gerente-Geral de Certificação de Produto Aeronáutico
 (Manager, Aeronautical Product Certification)**