

# TYPE-CERTIFICATE DATA SHEET

No. E.218

**for Engine**  
Solo 2625 series engines

**Type Certificate Holder**  
SOLO Kleinmotoren GmbH  
Stuttgarter Straße 41  
71069 Sindelfingen  
Germany

For Models:

Solo 2625 01  
Solo 2625 02



Intentionally left blank



## TABLE OF CONTENTS

<b>I. General</b> .....	<b>4</b>
<b>1. Type / Models</b> .....	<b>4</b>
<b>2. Type Certificate Holder</b> .....	<b>4</b>
<b>3. Manufacturer</b> .....	<b>4</b>
<b>4. Date of Application</b> .....	<b>4</b>
<b>5. EASA Type Certification Date</b> .....	<b>4</b>
<b>II. Certification Basis</b> .....	<b>4</b>
<b>1. EASA Certification Basis</b> .....	<b>4</b>
<b>1.1. Airworthiness Standards</b> .....	<b>4</b>
<b>1.2. Special Conditions (SC)</b> .....	<b>4</b>
<b>1.3. Equivalent Safety Findings (ESF)</b> .....	<b>5</b>
<b>1.4. Deviations</b> .....	<b>5</b>
<b>1.5. Environmental Protection</b> .....	<b>5</b>
<b>III. Technical Characteristics</b> .....	<b>5</b>
<b>1. Type Design Definition</b> .....	<b>5</b>
<b>2. Description</b> .....	<b>5</b>
<b>3. Equipment</b> .....	<b>5</b>
<b>4. Dimensions</b> .....	<b>5</b>
<b>5. Dry Mass</b> .....	<b>5</b>
<b>6. Ratings</b> .....	<b>6</b>
<b>7. Control System</b> .....	<b>6</b>
<b>8. Fluids (Fuel, Oil, Coolant, Additives)</b> .....	<b>6</b>
<b>9. Aircraft Accessory Drives</b> .....	<b>6</b>
<b>IV. Operating Limitations</b> .....	<b>6</b>
<b>1. Temperature Limits</b> .....	<b>6</b>
<b>2. Speed Limits</b> .....	<b>6</b>
<b>3. Pressure Limits</b> .....	<b>6</b>
<b>3.1 Fuel Pressure</b> .....	<b>6</b>
<b>3.2 Oil Consumption and Capacity limits:</b> .....	<b>6</b>
<b>V. Operating and Service Instructions</b> .....	<b>7</b>
<b>VI. Notes</b> .....	<b>7</b>
<b>SECTION: ADMINISTRATIVE</b> .....	<b>8</b>
<b>I. Acronyms and Abbreviations</b> .....	<b>8</b>
<b>II. Type Certificate Holder Record</b> .....	<b>8</b>
<b>III. Change Record</b> .....	<b>8</b>



## **I. General**

### **1. Type / Models**

Solo 2625/ Solo 2625 01, 2625 02

### **2. Type Certificate Holder**

Solo Kleinmotoren GmbH  
Stuttgarter Straße 41  
71069 Sindelfingen  
Germany

EASA ADOAP: AP 136

### **3. Manufacturer**

Solo Kleinmotoren GmbH  
Stuttgarter Straße 41  
71069 Sindelfingen  
Germany

from 02 June 1982 until 15 July 2013

SOLO Vertriebs- und Entwicklungs- GmbH from 16 July 2013  
Stuttgarter Straße 41  
71069 Sindelfingen  
Germany

### **4. Date of Application**

20 September 1996

Note: The application was made to LBA Germany before EASA had been established according to German national procedures.

### **5. EASA Type Certification Date**

16 March 1998

## **II. Certification Basis**

### **1. EASA Certification Basis**

#### **1.1. Airworthiness Standards**

JAR-22 Change 5 dated October 28th 1995, Subpart H

#### **1.2. Special Conditions (SC)**

None



### 1.3. Equivalent Safety Findings (ESF)

None

### 1.4. Deviations

None

### 1.5. Environmental Protection

None (not required for piston engines)

## III. Technical Characteristics

### 1. Type Design Definition

Type Design Definition in accordance with structure parts list 20 00 625 01 of 26 January 1998 (\*)

(\*) = or later approved revisions

### 2. Description

Two-stroke two-cylinder inline engine with liquid cooling, contactless dual magneto ignition, pulley for driving the propeller and exhaust muffler.

Displacement : 625 cm<sup>3</sup>

Bore / stroke : 76mm/69mm

Compression ratio : 9,5:1

Gear ratio: according to the ratio of the engine-propeller-diameter pulleys.

### 3. Equipment

As stated in the type definition parts list.

### 4. Dimensions

Model		Solo 2625 01	Solo 2625 02
Overall Length	mm	345	350
Overall Height	mm	408	390
Width	mm	238	255

### 5. Dry Mass

Model	Solo 2625 01	Solo 2625 02
Mass kg	23 without exhaust system	24 without exhaust system



## 6. Ratings

Model	Solo 2625 01	Solo 2625 02
Take-off Power	39 KW at 6250 rpm	47 KW at 6500 rpm
Max. Continuous Power	39 KW at 6250 rpm	47 KW at 6500 rpm

Note: The performance value specified above correspond to minimum values defined under the conditions of ICAO or ARDC standard atmosphere.

## 7. Control System

The engine model Solo 2625 01 is equipped with one carburettor and a contactless dual magneto ignition. The engine model Solo 2625 02 is equipped with two carburettors and a contactless dual magneto ignition.

## 8. Fluids (Fuel, Oil, Coolant, Additives)

See Operation and Maintenance Manual for approved fluids.

## 9. Aircraft Accessory Drives

None

## IV. Operating Limitations

### 1. Temperature Limits

Cylinder head: Water temperature max. 115 °C

### 2. Speed Limits

Model	Solo 2625 01	Solo 2625 02
Minimum Cont. Speed	2300 rpm	2300 rpm
Max. Take off and Cont. Speed	6250 rpm	6500 rpm
Maximum Speed	7000 rpm	7000 rpm

### 3. Pressure Limits

#### 3.1 Fuel Pressure

Fuel supply pressure min. 0.2 bar, max. 0.4 bar.

#### 3.2 Oil Consumption and Capacity limits:

See engine manual



## **V. Operating and Service Instructions**

Model	Solo 2625 01	Solo 2625 02
Manual for engine (Handbuch für den Motor)	Solo Typ 2625 01, Issue 1 dated 24 September 1997 (*)	Solo Typ 2625 02, Issue 1 dated 24 September 1997 (*)
Service-Anleitung für den Flugmotor	Solo 2625 01, Ausgabe 1 vom 28 February 1998 (*)	Solo 2625 02, Ausgabe 1 vom 28 February 1998 (*)

(\*) = or later approved revisions

## **VI. Notes**

1. The manufacturer documents recorded in this TCDS are binding in the specified issue or later approved revisions.
2. The suitability and allowable operating ranges of an engine for use in a specific aircraft/propeller combination are to be demonstrated during the aircraft certification.
3. For the permitted engine operating hours refer to the relevant operating instructions.
4. The deviations of the series 02 modified to 02i with fuel injection are defined in the Service Bulletin 4600-3, issue 1, dated 30 September 2010.
5. The deviations of the series 01 modified to 01i with fuel injection are defined in the Service Bulletin 4600-7, issue 1, dated 05 March 2018



**SECTION: ADMINISTRATIVE**

**I. Acronyms and Abbreviations**

n/a

**II. Type Certificate Holder Record**

n/a

**III. Change Record**

<b>Issue</b>	<b>Date</b>	<b>Changes</b>	<b>TC issue</b>
Issue 01	10 March 2011	Initial Issue	Initial Issue, 10 March 2011
Issue 02	12 November 2014	Updated Manufacturer name	
Issue 03	11 June 2018	Addition of 01 modified to 01i per SB 4600-7 (Major Change Approval 10065769)	

-END-

