

中国民用航空总局
GENERAL ADMINISTRATION OF CIVIL AVIATION OF CHINA

编号/No.: VTC064E

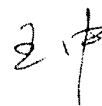
修订 / Rev: 1

型号 / Models:

CFM56-5B1	CFM56-5B1/P	CFM56-5B1/2P	CFM56-5B2
CFM56-5B2/P	CFM56-5B2/2P	CFM56-5B3/P	CFM56-5B3/2P
CFM56-5B4	CFM56-5B4/P	CFM56-5B4/2P	CFM56-5B5
CFM56-5B5/P	CFM56-5B6	CFM56-5B6/P	CFM56-5B6/2P
CFM56-5B7	CFM56-5B7/P	CFM56-5B8/P	CFM56-5B9/P
CFM56-5B9/2P	CFM56-5C2/G	CFM56-5C3/G	CFM56-5C4

批准人 / Approved by:

日期 / Date: 2005-08-17



型号认可证数据单编号: VTC064E
Validation Type Certificate Data Sheet No. VTC064E

本数据单, 作为型号认可证编号: **VTC064E** 的一部分, 规定了一些条件和限制, 在此条件和限制下, 获得本型号认可证的产品满足下述“认可审定基础”段落给出的适航要求。

This data sheet which is a part of Validation Type Certificate No. **VTC064E** prescribes conditions and limitations under which the product for which the Validation Type Certificate was issued meets the airworthiness requirements indicated in the paragraph “Validation Basis”.

美国 FAA 型号合格证 No. E38NE、数据单第 10 版, 批准日期: 2004 年 10 月 25 日, 其中
Type Certificate No. E38NE, Data Sheet Revision 10 Approved by American FAA on October 25, 2004.

型号/MODELS

FAA 批准日期/FAA Approved date

CFM56-5B2	05/28/93
CFM56-5B1	02/02/94
CFM56-5B4	02/02/94
CFM56-5C2/G	10/27/94
CFM56-5C3/G	10/27/94
CFM56-5C4	10/27/94
CFM56-5B5	03/11/96
CFM56-5B6	03/11/96
CFM56-5B1/P	06/20/96
CFM56-5B1/2P	06/20/96
CFM56-5B2/P	06/20/96
CFM56-5B2/2P	06/20/96
CFM56-5B3/2P	06/20/96
CFM56-5B4/P	06/20/96
CFM56-5B4/2P	06/20/96
CFM56-5B5/P	06/20/96
CFM56-5B6/P	06/20/96
CFM56-5B6/2P	06/20/96
CFM56-5B3/P	09/10/96
CFM56-5B7	06/07/99
CFM56-5B7/P	11/03/99
CFM56-5B8/P	07/25/02
CFM56-5B9/P	07/25/02
CFM56-5B9/2P	07/25/02

CAAC 型号认可证 VTC064E 颁发日期: 2005 年 8 月 17 日。

CAAC Validated Type Certificate Datasheet No. VTC064E, date of issue: August 17, 2005.

型号/MODELS	CAAC认可日期/CAAC validation date
CFM56-5B2	08/17/05
CFM56-5B1	08/17/05
CFM56-5B4	08/17/05
CFM56-5C2/G	10/17/96
CFM56-5C3/G	10/17/96
CFM56-5C4	10/17/96
CFM56-5B5	08/17/05
CFM56-5B6	08/17/05
CFM56-5B1/P	08/17/05
CFM56-5B1/2P	08/17/05
CFM56-5B2/P	08/17/05
CFM56-5B2/2P	08/17/05
CFM56-5B3/2P	08/17/05
CFM56-5B4/P	08/17/05
CFM56-5B4/2P	08/17/05
CFM56-5B5/P	08/17/05
CFM56-5B6/P	08/17/05
CFM56-5B6/2P	08/17/05
CFM56-5B3/P	08/17/05
CFM56-5B7	08/17/05
CFM56-5B7/P	08/17/05
CFM56-5B8/P	08/17/05
CFM56-5B9/P	08/17/05
CFM56-5B9/2P	08/17/05

型号合格证持有人: CFM 国际公司 S.A.

TYPE CERTIFICATE (TC) HOLDER:

CFM International, S.A.
2 Boulevard du General Martial Valin
75015 Paris, France

I.型号 / MODELS

形式 / TYPE

CFM56-5B1**CFM56-5B1/P****CFM56-5B1/2P**

高涵道比，由多级低压涡轮驱动的同轴前置风扇 / 增压器，一级高压涡轮带动多级压气机并且采用环形燃烧室。

仅CFM56-5B/2P和-5B/2P1系列发动机采用双环型燃烧室。

High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine, multi-stage compressor with one-stage high pressure turbine and annular combustor.

CFM56-5B/2P & -5B/2P1 SERIES ONLY: Double Annular Combustor

额定功率（注4） /

RATINGS (See NOTE 4)

海平面起飞静态推力（5分

钟见注16），磅 /

Takeoff (5 min. see NOTE

16),

sea level, static thrust, lb.

30,000/
13,345 daN

--
--

--
--

海平面最大连续静态推力，

磅 /

Maximum continuous, sea
level static thrust, lb.

29,090/
12,940 daN

--
--

--
--

平台功率 / Flat rating

起飞 / Takeoff

最大连续 / Maximum
continuous

环境温度 / AMBIENT TEMPERATURE

86°F / 30°C
77°F / 25°C

--
--

--
--

环境温度 / FUEL SYSTEM

批准的燃油见注7 / See NOTE 7 for approved fuels

燃油泵 / SNECMA 件号

（复合型增压器和单级齿轮
泵）

Fuel pump / SNECMA P/N

(Combined boost and

single

element gear-type pump)

301-797-402-0
301-785-503-0

--

--

液力组件（GE件号）

Hydromechanical unit

(GE Part Number)

1348M79

--

--

电子控制组件（GE件号）

Electronic control unit

(GE Part Number)

1820M36
1820M89
2042M13
2042M14

--
--
--
--

1820M87
1820M88
--
--

验证塞（SNECMA件号）

Identification plugs

(SNECMA Part Number)

338-046-001-0
338-046-002-0
338-046-004-0
338-046-005-0
338-046-006-0

338-046-004-0
338-122-701-0
338-122-705-0
338-128-650-0
338-128-655-0

--
338-046-090-0
338-046-095-0
338-047-070-0
338-047-075-0
338-122-801-0
338-122-805-0
338-125-301-0
338-125-305-0

滑油 / OIL

合成型符合GE规范D50TF1, 类型I和II。

CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。

Synthetic type conforming to GE Specification D50TF1, Type I and Type II.

CFM Service Bulletin CFM56-5B 79-001 list approved brand oils.

点火系统 / IGNITION
SYSTEM

GE件号 / GE PART NUMBER

点火组件/Ignition unit
Unison

9238M66

--

--

双点火嘴 / Two igniter
plugs

Unison

1374M12

--

--

Champion

1374M13

--

--

主要尺寸 /

英寸 / 毫米

PRINCIPAL DIMENSIONS

INCHES / MILLIMETERS

长度, (风扇前法兰盘到低
压涡轮机匣后法兰盘) /
Length, (fan case forward
flange to LPT frame aft
flange)

102.3 / 2599.7

--

--

宽, (风扇机匣前法兰盘直
径) /

Width, (fan casing forward
flange diameter)

75.12 / 1908

--

--

高度, (附件齿轮箱的地面
到风扇机匣前法兰盘的顶
面) /

Height, (bottom of
accessory
gearbox to top of fan
casing
forward flange)

82.87 / 2105

--

--

重量 (净重) / WEIGHT
(dry)

包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监控设
备。

Includes basic engine accessories and optional equipment as listed in
manufacturers specification, and engine-mounted portions of the condition
monitoring instrumentation.

磅 / Pounds

5412.9

--

5512.9

公斤 / Kilograms

2454.8

--

2500.6

重心位置 / CENTER OF
GRAVITY LOCATIONS

站位, 仅对发动机 (参见安装图纸) / STATION, ENGINE ONLY (REFER TO
INSTALLATION DRAWING)

英寸 / Inches

204.8 ±1

--

--

毫米 / Millimeters

5202 ±25

--

--

II. 型号 / MODELS

CFM56-5B2

CFM56-5B2/P

CFM56-5B2/2P

形式 / TYPE

高涵道比, 由多级低压涡轮驱动的同轴前置风扇 / 增压器, 一级高压涡轮带动多
级压气机并且采用环形燃烧室。

仅CFM56-5B/2P和-5B/2P1系列发动机采用双环型燃烧室。

High bypass turbofan; coaxial front fan/booster driven by multi-stage low
pressure turbine, multi-stage compressor with one-stage high pressure turbine
and annular combustor.

CFM56-5B/2P & -5B/2P1 SERIES ONLY: Double Annular Combustor

额定功率（注4） /

RATINGS (See NOTE 4)

海平面起飞静态推力（5分钟见注16），磅 /

Takeoff (5 min. see NOTE 16), sea level, static thrust, lb.

31,000/
13,789 daN

--
--

--
--

海平面最大连续静态推力，磅 /

Maximum continuous, sea level static thrust, lb.

29,090/
12,940 daN

--
--

--
--

平台功率 / Flat rating

环境温度 / AMBIENT TEMPERATURE

起飞 / Takeoff

86°F / 30°C

--

--

最大连续 / Maximum continuous

77°F / 25°C

--

--

燃油系统 / FUEL SYSTEM

批准的燃油见注7 / See NOTE 7 for approved fuels

燃油泵 / SNECMA 件号

（复合型增压器和单级齿轮泵）

Fuel pump / SNECMA P/N
(Combined boost and single element gear-type pump)

301-797-402-0
301-785-503-0

--

--

液力组件（GE件号）

Hydromechanical unit
(GE Part Number)

1348M79

--

--

电子控制组件（GE件号）

Electronic control unit
(GE Part Number)

1820M36
1820M89
2042M13
2042M14

--
--
--
--

1820M87
1820M88
2042M13
2042M14

验证塞（SNECMA件号）

Identification plugs
(SNECMA Part Number)

338-046-020-0
338-046-021-0
338-046-023-0
338-046-025-0
338-046-026-0

338-046-023-0
338-122-720-0
338-122-725-0
338-128-660-0
338-128-665-0

--
338-046-080-0
338-046-085-0
338-122-820-0
338-122-825-0
338-125-320-0
338-125-325-0
338-127-400-0
338-127-405-0

滑油 / OIL

合成型符合GE规范D50TF1，类型I和II。

CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。

Synthetic type conforming to GE Specification D50TF1, Type I and Type II.
CFM Service Bulletin CFM56-5B 79-001 list approved brand oils.

点火系统 / IGNITION SYSTEM

GE件号 / GE PART NUMBER

点火组件/Ignition unit				
Unison	9238M66	--	--	--
双点火嘴 / Two igniter plugs				
Unison	1374M12	--	--	--
Champion	1374M13	--	--	--
主要尺寸 / PRINCIPAL DIMENSIONS	英寸 / 毫米 / INCHES / MILLIMETERS			
长度, (风扇前法兰盘到低压涡轮机匣后法兰盘) / Length, (fan case forward flange to LPT frame aft flange)	102.3 / 2599.7	--	--	--
宽, (风扇机匣前法兰盘直径) / Width, (fan casing forward flange diameter)	75.12 / 1908	--	--	--
高度, (附件齿轮箱的地面到风扇机匣前法兰盘的顶面) / Height, (bottom of accessory gearbox to top of fan casing forward flange)	82.8 / 2105	--	--	--
重量 (净重) / WEIGHT (dry)	包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监控设备。 Includes basic engine accessories and optional equipment as listed in manufacturers specification, and engine-mounted portions of the condition monitoring instrumentation.			
磅 / Pounds	5412.9	--	--	5512.9
公斤 / Kilograms	2454.8	--	--	2500.6
重心位置 / CENTER OF GRAVITY LOCATIONS	站位, 仅对发动机 (参见安装图纸) / STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英寸 / Inches	204.8 ±1	--	--	--
毫米 / Millimeters	5202 ±25	--	--	--
III. 型号 / MODELS TYPE	CFM56-5B3/P	CFM56-5B3/P1	CFM56-5B3/2P	CFM56-5B3/2P1
	高涵道比, 由多级低压涡轮驱动的同轴前置风扇 / 增压器, 一级高压涡轮带动多级压气机并且采用环形燃烧室。 仅CFM56-5B/2P和-5B/2P1系列发动机采用双环型燃烧室。 High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine, multi-stage compressor with one-stage high pressure turbine and annular combustor. CFM56-5B/2P & -5B/2P1 SERIES ONLY: Double Annular Combustor			
额定功率 (注4) / RATINGS (See NOTE 4)				
海平面起飞静态推力 (5分钟见注16), 磅 / Takeoff(5 min. see NOTE 16), sea level, static thrust, lb.	32,000/ 14,234 daN	--	--	--
海平面最大连续静态推力, 磅 /				

Maximum continuous,
sea

level static thrust, lb.

29,090/
12,940 daN

--

--

--

--

--

--

平台功率 / Flat rating

环境温度 / AMBIENT TEMPERATURE

起飞 / Takeoff

86°F / 30°C

--

--

--

最大连续 / Maximum
continuous

77°F / 25°C

--

--

--

环境温度 / FUEL
SYSTEM

批准的燃油见注7 / See NOTE 7 for approved fuels

燃油泵 / SNECMA 件号
(复合型增压器和单级齿
轮泵)

Fuel pump / SNECMA
P/N

(Combined boost and
single
element gear-type pump)

301-797-402-0

--

--

--

液力组件 (GE件号)

Hydromechanical unit
(GE Part Number)

1348M79

--

--

--

电子控制组件 (GE件号)

Electronic control unit
(GE Part Number)

1820M36

--

1820M87

--

1820M89

--

1820M88

--

2042M13

--

--

--

2042M14

--

--

--

验证塞 (SNECMA件号)

Identification plugs
(SNECMA Part Number)

338-122-730-0

338-122-733-0

338-122-732-0

338-122-733-0

338-122-732-0

338-122-830-0

338-122-735-0

338-122-835-0

338-128-670-0

338-128-300-0

338-128-675-0

338-128-305-0

338-128-310-0

338-128-315-0

338-128-320-0

338-128-325-0

OIL

合成型符合GE规范D50TF1, 类型I和II。

CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。

Synthetic type conforming to GE Specification D50TF1, Type I and Type II.

CFM Service Bulletin CFM56-5B 79-001 list approved brand oils.

III. 型号 / MODELS

CFM56-5B3/P

CFM56-5B3/P1

CFM56-5B3/2P

CFM56-5B3/2P1

点火系统 / IGNITION
SYSTEM

GE件号 / GE PART NUMBER

点火组件/Ignition unit Unison	9238M66	--	--	--
双点火嘴 / Two igniter plugs Unison	1374M12 1374M13	-- --	-- --	-- --
Champion				
主要尺寸 / PRINCIPAL DIMENSIONS	英寸 / 毫米 INCHES / MILLIMETERS			
长度, (风扇前法兰盘到低 压涡轮机匣后法兰盘) / Length, (fan case forward flange to LPT frame aft flange)	102.3 / 2599.7	--	--	--
宽, (风扇机匣前法兰盘直 径) / Width, (fan casing forward flange diameter)	75.12 / 1908	--	--	--
高度, (附件齿轮箱的地面 到风扇机匣前法兰盘的顶 面) / Height, (bottom of accessory gearbox to top of fan casing forward flange)	82.87 / 2105	--	--	--
重量 (净重) / WEIGHT (dry)	包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监控 设备。 Includes basic engine accessories and optional equipment as listed in manufacturers specification, and engine-mounted portions of the condition monitoring instrumentation			
磅 / Pounds	5412.9	--	5512.9	--
公斤 / Kilograms	2454.8	--	2500.6	--
重心位置 / CENTER OF GRAVITY LOCATIONS	站位, 仅对发动机 (参见安装图纸) / STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英寸 / Inches	204.8 ±1	--	--	--
毫米 / Millimeters	5202 ±25	--	--	--
IV. 型号 / MODELS TYPE	CFM56-5B4	CFM56-5B4/P	CFM56-5B4/P1	CFM56-5B4/2P
	高涵道比, 由多级低压涡轮驱动的同轴前置风扇 / 增压器, 一级高压涡轮带动多级压 气机并且采用环形燃烧室。 仅CFM56-5B/2P和-5B/2P1系列发动机采用双环型燃烧室。 High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine, multi-stage compressor with one-stage high pressure turbine and annular combustor. CFM56-5B/2P & -5B/2P1 SERIES ONLY: Double Annular Combustor			
额定功率 (注4) / RATINGS (See NOTE 4)			--	--
海平面起飞静态推力 (5分 钟见注16), 磅 / Takeoff(5 min. see NOTE 16), sea level, static thrust, lb.	27,000/ 12,010 daN	-- --	--	--
海平面最大连续静态推 力, 磅 / Maximum continuous,				

sea level static thrust, lb.	24,370/ 10,840 daN	--	--	--
		--	--	--
平台功率 / Flat rating	环境温度 / AMBIENT TEMPERATURE			
起飞 / Takeoff	113°F / 45°C	--	122°F / 50°C	113°F / 45°C
最大连续 / Maximum continuous	77°F / 25°C	--	--	--
环境温度 / FUEL SYSTEM	批准的燃油见注7 / See NOTE 7 for approved fuels			
燃油泵 / SNECMA 件号 (复合型增压器和单级齿轮泵)				
Fuel pump / SNECMA P/N				
(Combined boost and single element gear-type pump)	301-797-402-0	--	--	--
	301-785-503-0	---	---	---
液力组件 (GE件号) Hydromechanical unit (GE Part Number)	1348M79	--	--	--

IV. 型号 / MODELS

	CFM56-5B4	CFM56-5B4/P	CFM56-5B4/P1	CFM56-5B4/2P
电子控制组件 (GE件号) Electronic control unit (GE Part Number)	1820M36	--	--	1820M87
	1820M89	--	--	1820M88
	2042M13	--	--	--
	2042M14	--	--	--
验证塞 (SNECMA件号) Identification plugs (SNECMA Part Number)	338-046-040-0	338-046-043-0	338-046-044-0	338-046-043-0
	338-046-041-0	338-122-740-0		338-122-840-0
	338-046-043-0	338-122-745-0		338-122-845-0
	338-046-045-0	338-128-680-0		338-125-340-0
	338-046-046-0	338-128-685-0		338-125-345-0
				338-128-400-0
				338-128-405-0
				338-128-410-0
				338-128-415-0

OIL

合成型符合GE规范D50TF1, 类型I和II。
CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。

Synthetic type conforming to GE Specification D50TF1, Type I and Type II.

CFM Service Bulletin CFM56-5B 79-001 list approved brand oils.

点火系统 / IGNITION SYSTEM	GE 件号 / GE PART NUMBER			
点火组件 / Ignition unit	9238M66	--	--	--
Unison				
双点火嘴 / Two igniter plugs	1374M12	--	--	--
Unison	1374M13	--	--	--
Champion				
主要尺寸 / PRINCIPAL DIMENSIONS	英寸 / 毫米 INCHES / MILLIMETERS			
长度, (风扇前法兰盘到低压涡轮机匣后法兰盘) / Length, (fan case forward flange to LPT frame aft flange)	102.3 / 2599.7	--	--	--
宽, (风扇机匣前法兰盘直径) / Width, (fan casing forward flange diameter)	75.12 / 1908	--	--	--
高度, (附件齿轮箱的地面到风扇机匣前法兰盘的顶面) / Height, (bottom of accessory gearbox to top of fan casing forward flange)	82.87 / 2105	--	--	--
重量 (净重) / WEIGHT (dry)	包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监控设备。 Includes basic engine accessories and optional equipment as listed in manufacturers specification, and engine-mounted portions of the condition monitoring instrumentation			
磅 / Pounds	5412.9	--	--	5512.9
公斤 / Kilograms	2454.8	--	--	2500.6
重心位置 / CENTER OF GRAVITY LOCATIONS	站位, 仅对发动机 (参见安装图纸) / STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英寸 / Inches	204.8 ±1	--	--	--
毫米 / Millimeters	5202 ±25	--	--	--

V. 型号 / MODELS TYPE

CFM56-5B4/2P1

CFM56-5B5

CFM56-5B5/P

高涵道比, 由多级低压涡轮驱动的同轴前置风扇 / 增压器, 一级高压涡轮带动多级压气机并且采用环形燃烧室。

仅CFM56-5B/2P和-5B/2P1系列发动机采用双环型燃烧室。

High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine, multi-stage compressor with one-stage high pressure turbine and annular combustor.

CFM56-5B/2P & -5B/2P1 SERIES ONLY: Double Annular Combustor

额定功率（注4） /
RATINGS (See NOTE
4)

海平面起飞静态推力（5
分钟见注16），磅 /
Takeoff(5 min. see
NOTE 16),
sea level, static thrust,
lb.

27,000/
12,010 daN

22,000/
9,786 daN

--
--

海平面最大连续静态推
力，磅 /
Maximum continuous,
sea
level static thrust, lb.

24,370/
10,840 daN

20,250/
9,008 daN

--
--

V. 型号 / MODELS

平台功率 / Flat rating
起飞 / Takeoff
最大连续 / Maximum
continuous

CFM56-5B4/2P1

环境温度 / AMBIENT TEMPERATURE

122°F / 50°C
77°F / 25°C

CFM56-5B5

113°F / 45°C
--

CFM56-5B5/P

--
--

环境温度 / FUEL SYSTEM
燃油泵 / SNECMA 件号
（复合型增压器和单级齿轮
泵）

批准的燃油见注7 / See NOTE 7 for approved fuels

Fuel pump / SNECMA P/N
(Combined boost and single
element gear-type pump)

301-797-402-0

--
301-785-503-0

--

液力组件（GE件号）
Hydromechanical unit
(GE Part Number)

1348M79

--

--

电子控制组件（GE件号）
Electronic control unit
(GE Part Number)

1820M87
1820M88
2042M13
2042M14

1820M36
1820M89
--
--

--
--
--
--

验证塞（SNECMA件号）
Identification plugs
(SNECMA Part Number)

338-046-044-0

338-046-050-0
338-046-052-0
338-046-055-0

338-046-052-0
338-122-750-0
338-122-755-0
338-128-690-0
338-128-695-0

OIL

合成型符合GE规范D50TF1，类型I和II。
CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。

Synthetic type conforming to GE Specification D50TF1, Type I and Type II.
CFM Service Bulletin CFM56-5B 79-001 list approved brand oils.

点火系统 / IGNITION SYSTEM GE PART NUMBER

点火组件/Ignition unit			
Unison	9238M66	--	--
双点火嘴 / Two igniter plugs			
Unison			
Champion	1374M12	--	--
	1374M13	--	--
PRINCIPAL DIMENSIONS	英寸 / 毫米		
	INCHES / MILLIMETERS		
长度, (风扇前法兰盘到低压 涡轮机匣后法兰盘) /			
Length, (fan case forward flange to LPT frame aft flange)	102.3 / 2599.7	--	--
宽, (风扇机匣前法兰盘直 径) /			
Width, (fan casing forward flange diameter)	75.12 / 1908	--	--
高度, (附件齿轮箱的地面到 风扇机匣前法兰盘的顶面) /			
Height, (bottom of accessory gearbox to top of fan casing forward flange)	82.87 / 2105	--	--
重量 (净重) / WEIGHT (dry)	包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监 控设备。		
	Includes basic engine accessories and optional equipment as listed in manufacturers specification, and engine-mounted portions of the condition monitoring instrumentation.		
磅 / Pounds	5512.9	5412.9	--
公斤 / Kilograms	2500.6	2454.8	--
重心位置 / CENTER OF GRAVITY LOCATIONS	STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)		
英寸 / Inches	204.8 ±1	--	--
毫米 / Millimeters	5202 ±25	--	--
VI. 型号 / MODELS	CFM56-5B6	CFM56-5B6/P	CFM56-5B6/2P
TYPE	高涵道比, 由多级低压涡轮驱动的同轴前置风扇 / 增压器, 一级高压涡轮带动多 级压气机并且采用环形燃烧室。 仅CFM56-5B/2P和-5B/2P1系列发动机采用双环型燃烧室。 High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine, multi-stage compressor with one-stage high pressure turbine and annular combustor. CFM56-5B/2P & -5B/2P1 SERIES ONLY: Double Annular Combustor		
额定功率 (注4) / RATINGS (See NOTE 4)			
海平面起飞静态推力 (5分钟见 注16), 磅 /			
Takeoff(5 min. see NOTE 16), sea level, static thrust, lb.	23,500/ 10,453 daN	-- --	-- --
海平面最大连续静态推力, 磅 /			
Maximum continuous, sea level static thrust, lb.	20,250/ 9,008 daN	-- --	-- --
平台功率 / Flat rating	环境温度 / AMBIENT TEMPERATURE		

起飞 / Takeoff	113°F / 45°C	--	--
最大连续 / Maximum continuous	77°F / 25°C	--	--
环境温度 / FUEL SYSTEM 燃油泵 / SNECMA 件号 (复合增压器和单级齿轮泵)	批准的燃油见注7 / See NOTE 7 for approved fuels		
Fuel pump / SNECMA P/N (Combined boost and single element gear-type pump)	301-797-402-0 301-785-503-0	-- ---	-- ---
液力组件 (GE件号) Hydromechanical unit (GE Part Number)	1348M79	--	--
电子控制组件 (GE件号) Electronic control unit (GE Part Number)	1820M36 1820M89 2042M13 2042M14	-- -- -- --	1820M87 1820M88 -- --
验证塞 (SNECMA件号) Identification plugs (SNECMA Part Number)	338-046-060-0 338-046-062-0 338-046-065-0	338-046-062-0 338-122-760-0 338-122-765-0 338-129-700-0 338-129-705-0	-- 338-122-860-0 338-122-865-0 338-125-360-0 338-125-365-0 338-128-420-0 338-128-425-0 338-128-430-0 338-128-435-0
OIL	合成型符合GE规范D50TF1, 类型I和II。 CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFM Service Bulletin CFM56-5B 79-001 list approved brand oils.		
点火系统 / IGNITION SYSTEM	GE件号 / GE PART NUMBER		
点火组件/Ignition unit Unison	9238M66	--	--
双点火嘴 / Two igniter plugs Unison Champion	1374M12 1374M13	-- --	-- --
主要尺寸 / PRINCIPAL DIMENSIONS	英寸 / 毫米 INCHES / MILLIMETERS		
长度, (风扇前法兰盘到低压 涡轮机匣后法兰盘) / Length, (fan case forward flange to LPT frame aft flange)	102.3 / 2599.7	--	--
宽, (风扇机匣前法兰盘直 径) / Width, (fan casing forward flange diameter)	75.12 / 1908	--	--

高度，（附件齿轮箱的地面到
风扇机匣前法兰盘的顶面） /
Height, (bottom of accessory
gearbox to top of fan casing
forward flange)

82.87 / 2105

--

--

VI. 型号 / MODELS**CFM56-5B6****CFM56-5B6/P****CFM56-5B6/2P**

重量（净重） / WEIGHT
(dry)

包括制造商说明中列出的基本发动机附件和可选设备，和发动机所安装的状态监控设备。

Includes basic engine accessories and optional equipment as listed in manufacturers specification, and engine-mounted portions of the condition monitoring instrumentation.

磅 / Pounds

5412.9

--

5512.9

公斤 / Kilograms

2454.8

--

2500.6

重心位置 / CENTER of
GRAVITY LOCATIONS

站位，仅对发动机（参见安装图纸） / STATION, ENGINE ONLY (REFER TO
INSTALLATION DRAWING)

英寸 / Inches

204.8 ±1

--

--

毫米 / Millimeters

5202 ±25

--

--

VII. 型号 / MODELS**CFM56-5B7****CFM56-5B7/P****CFM56-5B8/P**

TYPE

高涵道比，由多级低压涡轮驱动的同轴前置风扇 / 增压器，一级高压涡轮带动多级
压气机并且采用环形燃烧室。

仅 CFM56-5B/2P 和 -5B/2P1 系列发动机采用双环型燃烧室。

High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine,
multi-stage compressor with one-stage high pressure turbine and annular combustor.

CFM56-5B/2P & -5B/2P1 SERIES ONLY: Double Annular Combustor

额定功率（注4） /

RATINGS (See NOTE 4)

海平面起飞静态推力（5分钟
见注16），磅 /

Takeoff(5 min. see NOTE
16),

sea level, static thrust, lb.

27,000/

--

21,600/

12,010 daN

--

9,608 daN

海平面最大连续静态推力，
磅 /

Maximum continuous, sea
level static thrust, lb.

24,370/

--

19,060/

10,840 daN

--

8,478 daN

平台功率 / Flat rating

环境温度 / AMBIENT TEMPERATURE

起飞 / Takeoff

113°F / 45°C

--

--

最大连续 / Maximum
continuous

77°F / 25°C

--

--

环境温度 / FUEL SYSTEM

批准的燃油见注 7 / See NOTE 7 for approved fuels

燃油泵 / SNECMA 件号

（复合型增压器和单级齿轮
泵）

Fuel pump / SNECMA P/N
(Combined boost and single
element gear-type pump)

301-797-402-0

--

--

液力组件（GE件号）

Hydromechanical unit
(GE Part Number)

1348M79

--

--

电子控制组件 (GE件号)

Electronic control unit
(GE Part Number)

1820M36	--	--
1820M89	--	--
2042M13	--	
2042M14	--	

验证塞 (SNECMA件号)

Identification plugs
(SNECMA Part Number)

338-126-941-0	--	338-130-001-0
338-128-440-0	338-128-450-0	
338-128-445-0	338-128-455-0	
	338-128-470-0	
	338-128-475-0	

OIL

合成型符合GE规范D50TF1, 类型I和II。
CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。

Synthetic type conforming to GE Specification D50TF1, Type I and Type II.
CFM Service Bulletin CFM56-5B 79-001 list approved brand oils.

点火系统 / IGNITION
SYSTEM

GE 件号 / GE PART NUMBER

点火组件/Ignition unit
Unison

9238M66	--	--
---------	----	----

双点火嘴 / Two igniter plugs

Unison
Champion

1374M12	--	--
1374M13	--	--

VII. 型号 / MODELS

CFM56-5B7

CFM56-5B7/P

CFM56-5B8/P

主要尺寸 / PRINCIPAL
DIMENSIONS英寸 / 毫米
INCHES / MILLIMETERS

长度, (风扇前法兰盘到低压
涡轮机匣后法兰盘) /
Length, (fan case forward
flange to LPT frame aft
flange)

102.3 / 2599.7	--	--
----------------	----	----

宽, (风扇机匣前法兰盘直
径) /
Width, (fan casing forward
flange diameter)

75.12 / 1908	--	--
--------------	----	----

高度, (附件齿轮箱的地面到
风扇机匣前法兰盘的顶面) /
Height, (bottom of accessory
gearbox to top of fan casing
forward flange)

82.87 / 2105	--	--
--------------	----	----

重量 (净重) / WEIGHT (dry)

包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监控
设备。

Includes basic engine accessories and optional equipment as listed in
manufacturers specification, and engine-mounted portions of the condition
monitoring instrumentation.

磅 / Pounds

5412.9	--	--
--------	----	----

公斤 / Kilograms

2454.8	--	--
--------	----	----

重心位置 / CENTER OF
GRAVITY LOCATIONS

站位, 仅对发动机 (参见安装图纸) / STATION, ENGINE ONLY (REFER TO
INSTALLATION DRAWING)

英寸 / Inches	204.8 ±1	--	--
毫米 / Millimeters	5202 ±25	--	--

VIII. MODELS**CFM56-5B9/P****CFM56-5B9/2P****TYPE**

高涵道比，由多级低压涡轮驱动的同轴前置风扇 / 增压器，一级高压涡轮带动多级压气机并且采用环形燃烧室。

仅CFM56-5B/2P和-5B/2P1系列发动机采用双环型燃烧室。

High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine, multi-stage compressor with one-stage high pressure turbine and annular combustor. CFM56-5B/2P & -5B/2P1 SERIES ONLY: Double Annular Combustor.

额定功率 (注4) /

RATINGS (See NOTE 4)

海平面起飞静态推力 (5
分钟见注16)，磅 /

Takeoff(5 min. see

NOTE 16),

sea level, static thrust,

lb.

23,300/

10,364 daN

--

--

海平面最大连续静态推
力，磅 /

Maximum continuous,

sea

level static thrust, lb.

20,250/

9,008 daN

--

--

平台功率 / Flat rating

起飞 / Takeoff

最大连续 / Maximum

continuous

环境温度 / AMBIENT TEMPERATURE

113°F / 45°C

77°F / 25°C

--

--

环境温度 / FUEL

SYSTEM

燃油泵 / SNECMA 件号

(复合型增压器和单级齿
轮泵)

Fuel pump / SNECMA

P/N

(Combined boost and

single

element gear-type

pump)

301-797-402-0

--

液力组件 (GE件号)

Hydromechanical unit

(GE Part Number)

1348M79

--

电子控制组件 (GE件
号)

Electronic control unit

(GE Part Number)

2042M13

2042M14

--

--

验证塞 (SNECMA件
号)

Identification plugs

(SNECMA Part Number)

338-130-010-0

--

OIL 合成型符合GE规范D50TF1, 类型I和II。
CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。

Synthetic type conforming to GE Specification D50TF1, Type 1 and Type 11.
CFM Service Bulletin CFM56-5B 79-001 lists approved brand oils.

点火系统 / IGNITION SYSTEM	GE 件号 / GE PART NUMBER	
点火组件/Ignition unit		
Unison	9238M66	--
双点火嘴 / Two igniter plugs	1374M12	--
Unison	1374M13	--
Champion		

VIII.MODELS (CONT.)

CFM56-5B9/P

CFM56-5B9/2P

主要尺寸 / PRINCIPAL DIMENSIONS

英寸 / 毫米
INCHES / MILLIMETERS

长度, (风扇前法兰盘到低压
涡轮机匣后法兰盘) /
Length, (fan case forward
flange to LPT frame aft
flange)

102.3 / 2599.7

--

宽, (风扇机匣前法兰盘直
径) /
Width, (fan casing forward
flange diameter)

75.12 / 1908

--

高度, (附件齿轮箱的地面到
风扇机匣前法兰盘的顶面) /
Height, (bottom of accessory
gearbox to top of fan casing
forward flange)

82.87 / 2105

--

WEIGHT (dry)

包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监
控设备。

Includes basic engine accessories and optional equipment as listed in
manufacturers specification, and engine-mounted portions of the condition
monitoring instrumentation.

重量 (净重) / WEIGHT (dry)

5412.9

5512.9

磅 / Pounds

2454.8

2500.6

公斤 / Kilograms

站位, 仅对发动机 (参见安装图纸) / STATION, ENGINE ONLY (REFER TO
INSTALLATION DRAWING)

重心位置 / CENTER OF
GRAVITY LOCATIONS

204.8 ±1

--

5202 ±25

--

X. MODELS

CFM56-5C2/G

CFM56-5C3/G

CFM56-5C4

TYPE

高涵道比, 由多级低压涡轮驱动的同轴前置风扇 / 增压器, 一级高压涡轮带动多级压气机
并且采用环形燃烧室。

仅CFM56-5B/2P和-5B/2P1系列发动机采用双环型燃烧室。

High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure
turbine, multi-stage compressor with one-stage high pressure turbine and annular
combustor. Long duct mixed flow exhaust system. Thrust reverser.

额定功率（注4） /
RATINGS (See NOTE
4)

海平面起飞静态推力
（5分钟见注16），磅
/

Takeoff(5 min. see
NOTE 16),
sea level, static thrust,
lb.

31,200/
13,878 daN

32,500/
14,457 daN

34,000/
15,124 daN

海平面最大连续静态推
力，磅 /

Maximum continuous,
sea
level static thrust, lb.

28,300/
12,588 daN

29,400/
13,078 daN

30,060/
13,371 daN

平台功率 / Flat rating
起飞 / Takeoff
最大连续 / Maximum
continuous

环境温度 / AMBIENT TEMPERATURE

86°F / 30°C

--

--

77°F / 25°C

--

--

环境温度 / FUEL
SYSTEM

批准的燃油见注7 / See NOTE 7 for approved fuels

燃油泵 / SNECMA 件
号

（复合型增压器和单级
齿轮泵）

Fuel pump / SNECMA
P/N

(Combined boost and
single
element gear-type
pump)

301-785-503-0
301-797-402-0

--
--

301-797-402-0

液力组件（GE件号）
Hydromechanical unit
(GE Part Number)

1348M79

--

--

X. MODELS (CONT.)

CFM56-5C2/G

CFM56-5C3/G

CFM56-5C4

电子控制组件 (GE件号)

Electronic control unit
(GE Part Number)

1754M93	--	--
1799M97	--	--
1799M98	--	--
1851M41	--	--
1851M42	--	--
1851M43	--	--
1960M55	--	--
1960M56	--	--
1960M82	--	--
1960M83	--	--

验证塞 (SNECMA件号)

Identification plugs
(SNECMA Part Number)

337-183-601-0	337-183-621-0	337-183-801-0
337-183-611-0	337-180-631-0	337-183-811-0

OIL

合成型符合GE规范D50TF1, 类型I和II。
CFM服务通告CFM56-5B 79-001列出了批准的滑油牌号。

Synthetic type conforming to GE Specification D50TF1, Type I and Type II.
CFM Service Bulletin CFM56-5C 79-001 list approved brand oils.

点火系统 / IGNITION
SYSTEM点火组件/Ignition unit
Unison

GE件号 / GE PART NUMBER

9238M66	--	--
---------	----	----

双点火嘴 / Two igniter

plugs

Unison

Champion

1374M12	--	--
1374M13	--	--

主要尺寸 / PRINCIPAL
DIMENSIONS英寸 / 毫米
INCHES / MILLIMETERS长度, (风扇前法兰盘到低
压涡轮机匣后法兰盘) /Length, (fan case forward
flange to LPT frame aft
flange)

103.2 / 2622	--	--
--------------	----	----

宽, (风扇机匣前法兰盘直
径) /Width, (fan casing forward
flange diameter)

76.61 / 1946	--	--
--------------	----	----

高度, (附件齿轮箱的地面
到风扇机匣前法兰盘的顶
面) /Height, (bottom off
accessory
gearbox to top of fan casing
forward flange)

88.58 / 2250	--	--
--------------	----	----

重量 (净重) / WEIGHT
(dry)

包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监控
设备。

Includes basic engine accessories and optional equipment as listed in
manufacturers specification, and engine-mounted portions of the condition
monitoring instrumentation.

磅 / Pounds
公斤 / Kilograms

5830	--	--
2644.4	--	--

重心位置 / CENTER OF GRAVITY LOCATIONS	站位, 仅对发动机 (参见安装图纸) / STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)		
英寸 / Inches	206.0 ±1.0	--	--
毫米 / Millimeters	5232.4 ±25.4	--	--

FAA审定基础**FAA CERTIFICATION BASIS**

1965年生效的联邦法规汇编14集第33部的1至11修正案。另外, 发动机符合27号特殊联邦航空规章(CFM56-5C2)和联邦法规汇编14集第34部 (所有其他型号)。

Federal Aviation Regulations Part 33 effective February 1, 1965, with Amendments 33-1 through 33-11 thereto. In addition, the engines are in compliance with the emissions requirements of Special Federal Aviation Regulation No. 27-5 (CFM56-5C2) and 14 CFR § 34 (all other models).

CAAC认可审定基础**CAAC Validation Certification Basis**

CAAC接受F A A 的审定基础为认可审定基础

CAAC accepts FAA certification basis as validation basis for this validation program

生产基础**PRODUCTION BASIS**

通用电气公司根据CFM56-5C2国家公司, S.A.的许可依照生产许可证No. 108在美国生产 (见注10)。

Production Certification No. 108 for engines produced in the United States by General Electric under license form CFM International, S.A. (See NOTE 10).

进口要求 / IMPORT REQUIREMENTS: 见注10 / See NOTE 10.

注1 / NOTE 1.**最大允许温度 / MAXIMUM PERMISSIBLE TEMPERATURES**

	CFM56-5B和-5B/P 系列 CFM56-5B AND -5B/P SERIES	CFM56-5B/2和-5B/2P 系 列 CFM56-5B/2 AND - 5B/2P SERIES	所有CFM56-5C发动 机型号 ALL CFM56-5C ENGINE MODELS
涡轮排气温度 (T495) (见注17) TURBINE EXHAUST GAS (T495) (See NOTE 17)	在第二级低压涡轮静子叶片处由九个热电偶线束进行测量。 As measured by a harness of nine thermocouples located at the second stage low pressure turbine vane:		
起飞 (5分钟) Takeoff (5 min.)	950°C 915°C 725°C	-- -- --	-- -- --
最大连续 Maximum continuous	---	850°C	---
启动 Starting	CFM-TP.OI.13	--	CFM-TP.OI.12
CFM56-5B/2在飞行中 CFM56-5B/2 In-flight			
时间温度保险参见模式的S.O.I Time temperature envelope Refer to model's S.O.I.			

燃油泵进口 / FUEL PUMP INLET	参见相应的安装手册 / REFER TO THE APPROPRIATE INSTALLATION MANUAL		
滑油供应 / OIL SUPPLY			
连续运行 / Continuous operation	140°C/284°F	--	--
瞬态 (15分) minutes)	155°C/311°F	--	--

注2 / 燃油和滑油压力限制 / FUEL AND OIL PRESSURE LIMITS

NOTE 2. 运行和空中 / 地面起动压力限制最小不低于真实的燃油蒸汽压力5.5 psia (37.9 kPa 绝对压力)到最大50 psig (344.8 kPa 表压), 相对于环境大气, 在蒸汽 / 液体比率为零的所有情况下。限制见安装手册A部分, 图A2至A5。

Operation and air/ground starting pressure limits extend from a minimum fuel pressure of not less than 5.5 psia (37.9 kPa absolute) above the true fuel vapor pressure to a maximum of 50 psig (344.8 kPa gauge), relative to atmosphere, with vapor/liquid ratio of zero at all conditions. For limits, see Installation Manual, Part A, Section 5, Figures A2 through A5.

滑油限制 / Oil limits 慢车时最小压力限制为13 psid(89.6 kPa 压差)并且在巡航推力时增加到45 psid (310.2 kPa 压差)。冷起动的最大压力限制为300 psid (2069 kPa 压差), 由释压活门进行限制。见注13。

The minimum pressure limit at idle is 13 psid (89.6 kPa differential) and varies up to 45 psid (310.2 kPa differential) at cruise thrust. The maximum pressure limit during cold starts is 300 psid (2069 kPa differential), limited by a pressure-relief valve. See NOTE 13.

注3 / NOTE 3.

附件传动规定 / ACCESSORY DRIVE PROVISIONS

	CFM56-5B发动机型号 CFM56-5B ENGINE MODELS	CFM56-5C发动机型号 CFM56-5C ENGINE MODELS
电气 / ELECTRICAL		
旋转 / Rotation (1)	CCW	--
与核心级传动比 / Speed ratio to core	0.5947	--
安装功率 / Pad Rating (kW)	135	--
剪力扭矩 (英尺磅) / Shear Torque (in-lb)	9,492	--
最大悬挂运动 (英尺磅) / Maximum overhung moment (in-lb)	1,000	--
液压泵 / HYDRAULIC PUMP		
旋转 / Rotation (1)	CCW	--
与核心级传动比 / Speed ratio to core	0.256	--
安装功率 / Pad Rating (kW)	1,500	--
剪力扭矩 (英尺磅) / Shear Torque (in-lb)	4,400	--
最大悬挂运动 (英尺磅) / Maximum overhung moment (in-lb)	160	183

(1) CW = 顺时针 / CLOCKWISE /

(2) CCW = 逆时针 / COUNTERCLOCKWISE

注4 / NOTE 4. 发动机功率在下列条件下在经过校准的车台上获得：
Engine ratings are based on calibrated stand performance under the following conditions:

起飞功率名义上与环境温度无关（平台功率）直到以下温度：
Takeoff thrust is nominally independent of ambient temperature (flat rated) up to ambient temperature of:

标准大气 + 15°C / Std + 15°C (30°C, 86°F): CFM56-5B1, -5B1/P, -5B1/2P, -5B2, -5B2/P, -5B2/2P, -5B3/P, -5B3/P1, -5B3/2P, -5B3/2P1, -5C2, -5C2/4, -5C2/F, -5C2/F4, -5C2/G, -5C2/G4, -5C2/P, -5C3/F, -5C3/F4, -5C3/G, -5C3/G4, -5C3/P, -5C4, -5C4/P, -5C4/1, -5C4/1P.

标准大气 + 30°C / Std + 30°C (45°C, 113°F): CFM56-5B4, -5B4/P, -5B4/2P, -5B5, -5B5/P, -5B6, -5B6/P, -5B6/2P, -5B7, -5B7/P, -5B8/P, -5B9/P, -5B9/2P.

标准大气 + 35°C / Std + 35°C (50°C, 122°F): CFM56-5B4/P1, -5B4/2P1.

所有型号的最大连续功率名义上与环境温度无关（平台功率）直到标准大气 + 10°C (25°C, 77°F)。
Maximum continuous is nominally independent of ambient temperature (flat rated) up to ambient temperature of Std. + 10°C (25°C, 77°F) for all models.

无客户引气和功率提取
Zero customer bleed and horsepower extraction.

无摩擦阻力
No scrubbing drags.

100%进口效率
100% inlet recovery.

所有CFM56-5B发动机型号基于CFM国际公司具有主（核心机）排气喷嘴和风扇喷嘴的裁定单独排气系统。

Based on CFM International referee separate flow exhaust system with primary (core) exhaust nozzle and fan nozzle for all CFM56-5B engine models.

所有CFM56-5C发动机型号基于CFM国际公司长管式混合气流飞行排气系统。

Based on CFM International long duct mixed flow flight exhaust system for all CFM56-5C engine models.

注5 / NOTE 5.

最大允许的发动机转速（见注18）

MAXIMUM PERMISSIBLE ENGINE ROTOR SPEEDS (See NOTE 18)

	CFM56-5C2, -5C2/F, -5C3/F, -5C2/G, -5C3/G, - 5C2/4, -5C2/F4, -5C2/G4, -5C3/F4, -5C3/G4		ALL CFM56-5B ENGINE MODELS		CFM56-5C4, -5C4/1, -5C2/P, -5C3/P, - 5C4/P, -5C4/1P	
	RPM	%	RPM	%	RPM	%
低压转子 / Low pressure rotor (N1)	4,800	100.3	5,200	104.0	4,985	104.2
高压转子 / High pressure rotor (N2)	15,183	105.0	--	--	--	--

注6 / NOTE 6.

最大允许引气提取（所有型号）

MAXIMUM PERMISSIBLE AIR BLEED EXTRACTION (ALL MODELS)

位置 / LOCATION

风扇修正转速 / FAN

流量限制 / FLOW LIMIT

CORRECTED SPEED

风扇排气 / Fan Discharge	最低慢车以上所有转速 All speeds above minimum idle	2%风扇流量 2% fan airflow
仅高压压气机5级 / HPC Stage 5 only	最低慢车以上所有转速 All speeds above minimum idle	10%核心机流量 10% core airflow
仅压气机排气 / Compressor discharge only	最低慢车到61% N1 K Minimum idle to 61% N1K	14%核心机流量 14% core airflow
高压压气机5级和压气机排气结合 HPC Stage 5 and compressor discharge combined	61% 到 82.5% N1K 61% to 82.5% N1K	从14% 到 7%核心机流量线性变化 Linear variation from 14% to 7% core airflow
	82.5% N1K之上 Above 82.5% N1K	7%核心机流量 7% core airflow
	最低慢车到61% N1 K Minimum idle to 61% N1K	14%核心机流量 14% core airflow
	61% 到 82.5% N1K 61% to 82.5% N1K	14%核心机流量 14% core airflow
	82.5% N1K之上 Above 82.5% N1K	从14% 到 10%核心机流量线性变化 Linear variation from 14% to 10% core airflow
		10%核心机流量 10% core airflow

**注7 /
NOTE
7.**

批准的燃油满足 GE 规范 D50TF2 和三号喷气燃油（GB6537-94，中国）。MIL-T-5624，燃油级别 JP-4 或者 JP-5，ASTM D 1655，Jet A，A1 和 B 满足通用电气公司的规范。主要的燃油是 Jet A，还列出了可接受的其他备用燃油。当从主要燃油换为使用另一种燃油时不需要调整燃油控制。不允许使用航空煤油。添加剂的使用咨询操作指南。

Approved fuel conforming to GE Specification D50TF2 and No.3 Jet Fuel (GB6537-94, Chinese)
. MIL-T-5624, Grades JP-4 or JP-5, ASTM D 1655, Jet A, A1 and B are consistent with this General Electric Specification. Primary fuel is Jet A, with other fuels listed being acceptable alternates. No fuel control adjustment is required when changing from primary to alternate fuels. Use of aviation gasoline is not authorized. Consult Specific Operating Instructions for additive usage.

**注8 /
NOTE
8.**

关键旋转和静态部件的寿命限制见CFM56-5B车间手册第5章，CFMI-TP-SM.9；对CFM56-5C发动机见CFM56-5C的车间手册，CFMI-TP.SM.8。
Life limits established for critical rotating and static components are published in Chapter 5 of the CFM56-5B Shop Manual, CFMI-TP-SM.9, for the CFM56-5B engine models, and the CFM56-5C Shop Manual, CFMI-TP.SM.8, for the CFM56-5C engine models.

**注9 /
NOTE
9.**

各种情况下的功率设置、功率检查和发动机推力输出都基于参照风扇速度（N1）的GE发动机图表。为此目的传感器包括于发动机组件中。
Power setting, power checks and control of engine thrust output in all operations are to be based on CFM International engine charts referring to fan speed. Fan speed sensors are included in the engine assembly for this purpose.

注10 / NOTE 10. 型号合格证持有人, CFM国际公司, S.A是由法国Sneema Moteurs公司和通用电气公司共同组建共同所有以负责审定、销售和CFM56系列发动机支持的公司。有关生产的型号审定利益方面, 通用电气公司和Sneema Moteurs公司是作为CFM国际公司, S.A的协议许可方来承担。

The type certificate holder, CFM International, S.A., is a company established and jointly owned by Sneema Moteurs of France and the General Electric Company for the certification, sale, and support of CFM56 series engines. With respect to the benefits of type certification for production, General Electric and Sneema Moteurs function as licensees of CFM International, S.A.

此型号合格证只适用于在美国依据型号审定No. E37N生产的发动机。依据型号审定E38NE在法国生产的发动机同依据此型号合格证生产的发动机相同并且完全可以互换。

This type certificate applies only to engines produced in the United States to Type Certification No. E37NE. Engines of the same model designation produced in France to Type Certificate No. E38NE are identical to and fully interchangeable with engines produced to this type certificate.

在法国生产的单元体、部件可以在依据此型号合格证下生产的发动机上使用, 如果Sneema Moteurs公司代表法国Direction Generale de l'Aviation Civile (DGAC) 依据欧洲航空安全委员会 (EASA) 生产许可证No. FR.21G.007签署批准许可 (EASA表1—授权放行许可或者JAA表1), 并将此表附于每一产品或者覆盖产品运输发票上。(见14 CFR § 21.502)

Modules, assemblies, or parts produced in France are eligible for use in engines produced to this type certificate provided an airworthiness approval certificate (EASA Form One – Authorized Release Certificate or JAA Form 1) issued by Sneema Moteurs on behalf of the French Direction Generale de l'Aviation Civile (DGAC) under authority of European Aviation Safety Agency (EASA) Production Certificate No. FR.21G.007 is attached to the item or invoice covering shipment of items (Ref. 14 CFR § 21.502).

CFM56-5B发动机型号:

通用电气生产的发动机通过在序号加前缀"778," "574" 或 "576"来标识。Sneema Moteurs公司生产的CFM56-5B发动机用前缀"779," "575"或者 "577"来标识。从初次生产开始的序号前缀列如此所列。

CFM56-5B Engine Models:

These engines, when produced by General Electric, are identified by serial number prefix "778," "574" or "576". CFM56-5B engines produced by Sneema Moteurs are identified by the prefix "779," "575" or "577". The sequence of serial number prefixes since initial production is as listed here.

CFM56-5C发动机型号:

通用电气生产的发动机通过在序号加前缀"740"和"566"来标识。Sneema Moteurs公司生产的CFM56-5C发动机用前缀"741"和 "567"来标识。从初次生产开始的序号前缀列如此所列。

CFM56-5C Engine Models:

These engines, when produced by General Electric, are identified by serial number prefix "740" and "566". CFM56-5C engines produced by Sneema Moteurs are identified by the prefix "741" and "567". The sequence of serial number prefixes since initial production is as listed here.

注11 / NOTE 11. 发动机制造商提供吊舱系统和连接头NS-CFM56-5G01, 整个排气系统ES-CFM56-5G01, 和根据14 CFR § 33批准在所有CFM56-5C发动机上安装的组装发动机的EBU 736L699。
The engine manufacturer supplies the nacelle system and attachment fittings NS-CFM56-5G01, the total exhaust system ES-CFM56-5G01, and the engine-assembled EBU 736L699, which have been approved for installation on all CFM56-5C engine models in accordance with 14 CFR § 33.

注12 / NOTE 12. 飞行中最小允许慢车限制对应于N2=58.8% (8,500 rpm), 此限制不可调, 置于ECU的控制计划中。
The minimum permissible idle in flight corresponds to N2=58.8% (8,500 rpm) which is a non-adjustable limit, preset into the ECU Control schedule.

注13 / NOTE 13. 仅在负加速度情况下, 允许在最小滑油压力 (13 psid) 下使用10秒钟。见使用指南, 部分6。
During negative -g operation only, it is permissible to operate below minimum oil pressure (13 psid) for a maximum of 10 seconds. See Specific Operating Instruction, Section 6.

**注14 /
NOTE
14.**

此型号合格证数据单所列的型号有以下主要特点：
The models shown on this TCDS have the following general characteristics:

型号特点 / MODEL CHARACTERISTICS

CFM56-5B1同CFM56-5C2相似，除采用新的风扇和增压器和CFM56-5低压涡轮和修改的推力等级。
CFM56-5B1 Similar to CFM56-5C2, except for new fan and booster and CFM56-5 LP turbine and revised thrust ratings.

CFM56-5B1/P同CFM56-5B1相似，除重新设计的高压压气机，高压涡轮和低压涡轮。
CFM56-5B1/P Same as CFM56-5B1, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine.

CFM56-5B1/2P同CFM56-5B1/2相似，除重新设计的高压压气机，高压涡轮和低压涡轮。注：CFM56-5B1/2同CFM56-5B1相似除了CFM56-5B1/2具有双环形燃烧室。
CFM56-5B1/2P Same as CFM56-5B1/2, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine. Note, the CFM56-5B1/2 was similar to the CFM56-5B1 except the CFM56-5B1/2 had a dual annular combustor.

CFM56-5B2同CFM56-5B1相似，除增加的推力等级。
CFM56-5B2 Same as CFM56-5B1, except for increased thrust ratings.

CFM56-5B2/P同CFM56-5B2相似，除重新设计的高压压气机，高压涡轮和低压涡轮。
CFM56-5B2/P Same as CFM56-5B2, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine.

CFM56-5B2/2P同CFM56-5B2/2相似，除重新设计的高压压气机，高压涡轮和低压涡轮。注：CFM56-5B2/2同CFM56-5B1相似除了CFM56-5B2/2具有双环形燃烧室和增加的推力等级。
CFM56-5B2/2P Same as CFM56-5B2/2, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine. Note, the CFM56-5B2/2 was similar to the CFM56-5B1 but with a dual annular combustor and increased thrust rating.

CFM56-5B3/P同CFM56-5B1相似，除增加的功率等级和重新设计的高压压气机，高压涡轮和低压涡轮。
CFM56-5B3/P Same as CFM56-5B1, except for increased thrust rating and redesigned high pressure compressor, high pressure turbine, and low pressure turbine.

CFM56-5B3/P1同CFM56-5B3/P相似，除在环境温度大于拐点温度时的手动的起飞推力增加（在审定的标准天气等级范围内）。

CFM56-5B3/P1 Same as CFM56-5B3/P, except for a manually-activated takeoff thrust bump (within the certified standard day rating) for ambient temperatures above corner point.

CFM56-5B3/2P同CFM56-5B1相似，除增加的功率等级和重新设计的高压压气机，高压涡轮和低压涡轮。CFM56-5B3/2P具有双环形燃烧室。
CFM56-5B3/2P Same as CFM56-5B1, except for increased thrust rating and redesigned high pressure compressor, high pressure turbine, and low pressure turbine. CFM56-5B3/2P has a dual annular combustor.

CFM56-5B3/2P1同CFM56-5B3/2P相似，除在环境温度大于拐点温度时的手动的起飞推力增加（在审定的标准天气等级范围内）。

CFM56-5B3/2P1 Same as CFM56-5B3/2P, except for a manually-activated takeoff thrust bump (within the certified standard day rating) for ambient temperatures above corner point.

CFM56-5B4同CFM56-5B1相似，除减低的推力登记。
CFM56-5B4 Same as CFM56-5B1, except for decreased thrust ratings.

CFM56-5B4/P同CFM56-5B4相似，除重新设计的高压压气机，高压涡轮和低压涡轮。
CFM56-5B4/P Same as CFM56-5B4, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine.

CFM56-5B4/P1同CFM56-5B4/P相似，除增加的平台功率环境温度（拐点），和在环境温度大于拐点温度时的手动的起飞推力增加（在审定的标准天气等级范围内）。

CFM56-5B4/P1 Same as CFM56-5B4/P, except for increased flat rating ambient temperature (corner point), and a manually-activated takeoff thrust bump (within the certified standard day rating) for ambient temperatures above corner point.

CFM56-5B4/2P同CFM56-5B4/2相似，除重新设计的高压压气机，高压涡轮和低压涡轮。注：CFM56-5B4/2P同CFM56-5B4/2相似但是具有双环形燃烧室和降低的推力等级。

CFM56-5B4/2P Same as CFM56-5B4/2, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine. Note, the CFM56-5B4/2 was similar to the CFM56-5B1 but with a dual annual combustor and decreased thrust rating.

CFM56-5B4/2P1同CFM56-5B4/2P相似，除增加的平台功率环境温度（拐点），和在环境温度大于拐点温度时的手动的起飞推力增加（在审定的标准天气等级范围内）。

CFM56-5B4/2P1 Same as CFM56-5B4/2P, except for increased flat rating ambient temperature (corner point), and a manually-activated takeoff thrust bump (within the certified standard day rating) for ambient temperatures above corner point.

注14 (续) /
NOTE 14.
(CONT.)

CFM56-5B5同CFM56-5B1相似, 除了降低的推力等级。
CFM56-5B5 Same as CFM56-5B1, except for decreased thrust ratings.

CFM56-5B5/P同CFM56-5B5相似, 除了重新设计的高压压气机, 高压涡轮和低压涡轮。
CFM56-5B5/P Same as CFM56-5B5, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine.

CFM56-5B6同CFM56-5B1相似, 除了降低的推力等级。
CFM56-5B6 Same as CFM56-5B1, except for decreased thrust ratings.

CFM56-5B6/P同CFM56-5B6相似, 除了重新设计的高压压气机, 高压涡轮和低压涡轮。
CFM56-5B6/P Same as CFM56-5B6, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine.

CFM56-5B6/2P同CFM56-5B6/2相似, 除了重新设计的高压压气机, 高压涡轮和低压涡轮。注:
CFM56-5B6/2同CFM56-5B1相似但是具有双环形燃烧室和降低的推力等级。
CFM56-5B6/2P Same as CFM56-5B6/2, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine. Note, the CFM56-5B6/2 was similar to the CFM56-5B1 but with a dual annual combustor and decreased thrust rating.

CFM56-5B7同CFM56-5B1相似, 除了降低的推力等级。
CFM56-5B7 Same as CFM56-5B1, except for decreased thrust ratings.

CFM56-5B7/P同CFM56-5B7相似, 除了重新设计的高压压气机, 高压涡轮和低压涡轮。
CFM56-5B7/P Same as CFM56-5B7, except for redesigned high pressure compressor, high pressure turbine, and low pressure turbine.

CFM56-5B8/P同CFM56-5B1/P相似, 除了减少推力。
CFM56-5B8/P Same as CFM56-5B1/P, except for reduced thrust rating.

CFM56-5B9/P同CFM56-5B1/P相似, 除了减少推力。
CFM56-5B9/P Same as CFM56-5B1/P, except for reduced thrust rating.

CFM56-5B9/2P同CFM56-5B1/2P相似, 除了减少推力。
CFM56-5B9/2P Same as CFM56-5B1/2P, except for reduced thrust rating.

CFM56-5C2基本型
CFM56-5C2 Basic model.

CFM56-5C2/G同CFM56-5C2相似, 除了通过引入热端部件的改装而增加EGT限制
CFM56-5C2/G Similar to CFM56-5C2, except EGT limit increase through introduction of hot section modifications.

CFM56-5C3/G同CFM56-5C2/G相似, 除了增加的推力等级。
CFM56-5C3/G Same as CFM56-5C2/G, except for increased thrust ratings

CFM56-5C4同CFM56-5C2/G相似, 除了重新设计的风扇叶型和增加的推力等级。
CFM56-5C4 Same as CFM56-5C2/G, except for redesigned fan stage airfoils and increased thrust ratings.

- 注 15 / NOTE 15.** 基于满足联邦法规汇编 14 集第 33 部要求和相应的发动机控制系统可靠性要求, 批准所有的 CFM56-5B 和 CFM56-5C FADEC 发动机可以在带有故障的情况下使用。FAA 批准的有关发动机控制系统放行和维修要求方面的准则见通用电气文件 GEK 103085 (-5B 系列)和 GEK 100741 (-5C 系列)。这些文件定义了可放行的构型和最大使用间隔。
All CFM56-5B and CFM56-5C FADEC series engines have been approved to operate with certain faults present in the control system based on satisfaction of 14 CFR § 33 requirements and appropriate engine control system reliability requirements. FAA approved criteria pertaining to dispatch and maintenance requirements for the engine control system are specified in General Electric Document No. GEK 103085 (-5B family) and GEK 100741 (-5C family). These documents define the dispatchable configurations and maximum operating intervals.
已经同 CFM 建立控制系统可靠性监控项目, 以作为放行准则批准的偶然情况, 以确保整个发动机控制系统和特殊部件的故障率不超过可靠性分析所允许的最大值。
A control system reliability monitoring program has been established with CFM, as a contingency of the dispatch criteria approval, to ensure that overall engine control system and specific component failure rates do not exceed the maximum values permitted by the reliability analysis.
- 注 16 / NOTE 16.** 在发动机停车的偶然情况下, 正常 5 分钟起飞功率可以延长到 10 分钟。
The normal 5 minute takeoff rating may be extended to 10 minutes for engine out contingency.
- 注 17 / NOTE 17.** CFM56-5B/P, -5B/P1, -5B/2P, 和 -5B/2P1 系列发动机, 实际的最大允许涡轮排气温度 (EGT) 比指示的 EGT 温度低 10°C。指示温度为 950°C EGT 对应于实际的 940°C EGT, 指示温度为 915°C EGT 对应于实际的 905°C EGT。
For the CFM56-5B/P, -5B/P1, -5B/2P, and -5B/2P1 series engines, the actual maximum permissible turbine exhaust gas temperature (EGT) is 10°C lower than the indicated EGT. An indicated EGT of 950°C corresponds to an actual EGT of 940°C, and an indicated EGT of 915°C corresponds to an actual EGT of 905°C.
CFM56-5C2/F, -5C2/F4, -5C3/F, 和 -5C3/F4 系列发动机, 实际的最大允许涡轮排气温度 (EGT) 比指示的 EGT 温度高 15°C。指示温度为 950°C EGT 对应于实际的 965°C EGT, 指示温度为 915°C EGT 对应于实际的 930°C EGT。
For CFM56-5C2/F, -5C2/F4, -5C3/F, and -5C3/F4 engines, the actual maximum permissible turbine EGT is 15°C higher than the indicated EGT. An indicated EGT of 950°C corresponds to an actual EGT of 965°C, and an indicated EGT of 915°C corresponds to an actual EGT of 930°C.
CFM56-5C2/G, -5C2/G4, -5C2/P, -5C3/G, -5C3/G4, -5C3/P, -5C4, -5C4/P, -5C4/1, 和 -5C4/1P 发动机, 实际的最大允许涡轮排气温度 (EGT) 比指示的 EGT 温度高 25°C。指示温度为 950°C EGT 对应于实际的 975°C EGT, 指示温度为 915°C EGT 对应于实际的 940°C EGT。
For CFM56-5C2/G, -5C2/G4, -5C2/P, -5C3/G, -5C3/G4, -5C3/P, -5C4, -5C4/P, -5C4/1, and -5C4/1P engines, the actual permissible EGT is 25°C higher than the indicated EGT. An indicated EGT of 950°C corresponds to an actual EGT of 975°C, and an indicated EGT of 915°C corresponds to an actual EGT of 940°C.
- 注 18 / NOTE 18.** CFM56-5C2/4, -5C2/F4, -5C2/G4, -5C2/P, -5C3/F4, -5C3/G4 和 -5C3/P 发动机最大实际 N1 转速比指示 N1 转速高。指示 N1 为 4,800 RPM (100.3%)对应实际 N1 为 4,985 RPM (104.2%)。
For CFM56-5C2/4, -5C2/F4, -5C2/G4, -5C2/P, -5C3/F4, -5C3/G4 and -5C3/P engines, the actual maximum permissible N1 rotor speed is higher than the indicated N1. An indicated N1 of 4,800 RPM (100.3%) corresponds to an actual N1 of 4,985 RPM (104.2%).
- 注 19 / NOTE 19.** CFM56-5B 系列发动机包括: CFM56-5B1, -5B2, -5B4, -5B5, -5B6, -5B7
CFM56-5B series includes: CFM56-5B1, -5B2, -5B4, -5B5, -5B6, -5B7
CFM56-5B/P 系列发动机包括: CFM56-5B1/P, -5B2/P, -5B3/P, -5B4/P, -5B5/P, -5B6/P, -5B7/P, -5B8/P, -5B9/P
CFM56-5B/P series includes: CFM56-5B1/P, -5B2/P, -5B3/P, -5B4/P, -5B5/P, -5B6/P, -5B7/P, -5B8/P, -5B9/P
CFM56-5B/2P 系列发动机包括: CFM56-5B1/2P, -5B2/2P, -5B3/2P, -5B4/2P, -5B6/2P, -5B9/2P
CFM56-5B/2P series includes: CFM56-5B1/2P, -5B2/2P, -5B3/2P, -5B4/2P, -5B6/2P, -5B9/2P
CFM56-5B/P1 系列发动机包括: CFM56-5B3/P1, -5B4/P1
CFM56-5B/P1 series includes: CFM56-5B3/P1, -5B4/P1

CFM56-5B/2P1 系列发动机包括: CFM56-5B3/2P1, -5B4/2P1
CFM56-5B/2P1 series includes: CFM56-5B3/2P1, -5B4/2P1

---END---