Gulfstream GVI and GVIII

Page 1 of 18 Date: 15 May 2024



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.IM.A.169

for

Gulfstream GVI and GVIII

Type Certificate Holder: Gulfstream Aerospace Corporation 500 Gulfstream Road Savannah, GA, 31408 USA

For models: GVI GVIII-G700



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| TCDSN No.: EASA.IM.A.16 Issue: 5 | 9 | | | | | | | | Page 3 of 18 Date: 15 May 2024 |
|---|-----------------------|---------------------------|--------------------|-------------------|----------------|-------------------------------------|----------------------|---------------------|-----------------------------------|
| | | | | | | Aircraft Type Des Commercial Des | • | GVI G650) | |
| Engine Manufacturer ¹ Rolls-Royce Deutschland Ltd & Co. KG | | | | | E | Engine Type Desi | gnation ¹ | BR700-725A1-1 | 2 |
| Additional modifications essential to meet the requirements or needed to attain the None certificated noise levels ¹ | | | | | | | | | |
| Noise Certification Basi | s ICAO A | nnex 16, Volume | I Edition / Ar | nendment | Edition 4 / Am | endment 8 | Chapter ¹ | 4 | |
| FACA | Maxim | Maximum Mass Lateral EPNL | | Flyover EPNL Appr | | Appro | oach EPNL | 6 | |
| EASA Becord No | Take-off ¹ | Landing | Lovol ¹ | Limit | | Limit | Lovol ¹ | Limit | - See Note |

Limit

95.0

Level¹

77.5

Limit

89.0

Level¹

88.3

(kg) 37,874

(kg)

45,177

Level¹

89.8

¹ See Note 1.



Record No.

A18835

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Note

-

Limit

98.9

| TCDSN No.: EASA.IM.A.169 Issue: 5 | | | | | | Page 4 of 18 Date: 15 May 2024 |
|--|---|-------------------------|--|--------------------------------------|----------------|-----------------------------------|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corpo | oration | Aircraft Type Design (Commercial Design | | GVI G650ER) | |
| Engine Manufacturer ¹ | gine Manufacturer ¹ Rolls-Royce Deutschland Ltd & Co. KG | | | Engine Type Designation ¹ | | |
| Additional modifications esse certificated noise levels ¹ | ntial to meet the requirements | or needed to attain the | ASC 014 (MTOW increase) | | | |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Edition 6 / Amendment 10 | Chapter | 4 | |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | (a c |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19110 | 46,992 | 37,874 | 89.6 | 95.1 | 78.7 | 89.0 | 88.3 | 99.0 | - |



| TCDSN No.: EASA.IM.A.169 Issue: 5 | | | Page 5 of 18 Date: 15 May 2024 | | | |
|--|--|---|-----------------------------------|--|--|--|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corporation | Aircraft Type Designation ¹ (Commercial Designation | GVI G650ER) | | | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd & Co. KG | Engine Type Designation ¹ | BR700-725A1-12 | | | |
| Additional modifications esse certificated noise levels ¹ | ntial to meet the requirements or needed to attain the | ASC 014, ASC 026 (MTOW increase, weight variant) | | | | |
| Noise Certification Basis | ICAO Annex 16, Volume I Edition / Amendment | Edition 7 / Amendment 11-B Chapte | er ¹ 4 | | | |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 500 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19136 | 33,974 | 33,974 | 90.7 | 94.0 | 71.7 | 89.0 | 88.3 | 98.0 | - |



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|--|---|---|--|--|--|--|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corporation | Aircraft Type Designation1GVI(Commercial DesignationG650ER) | | | | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd & Co. KG | Engine Type Designation ¹ BR700-725A1-12 | | | | |
| Additional modifications esse certificated noise levels ¹ | ntial to meet the requirements or needed to attain th | ASC 014, ASC 027 (MTOW increase, weight variant) | | | | |
| Noise Certification Basis | ICAO Annex 16, Volume I Edition / Amendmen | Edition 7 / Amendment 11-B Chapter ¹ 4 | | | | |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 500 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19137 | 40,823 | 37,874 | 90.1 | 94.6 | 75.4 | 89.0 | 88.3 | 98.5 | - |



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|--|--|---|-----------------------------------|--|--|--|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corporation | Aircraft Type Designation ¹ (Commercial Designation | GVI G650ER) | | | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd & Co. KG | Engine Type Designation ¹ | BR700-725A1-12 | | | |
| Additional modifications esse certificated noise levels ¹ | ntial to meet the requirements or needed to attain the | ASC 014, ASC 028 (MTOW increase, weight variant) | | | | |
| Noise Certification Basis | ICAO Annex 16, Volume I Edition / Amendment | Edition 7 / Amendment 11-B Chapte | r ¹ 4 | | | |

| EACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 500 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19138 | 43,091 | 37,874 | 89.9 | 94.8 | 76.5 | 89.0 | 88.3 | 98.7 | - |



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|--|--|---|-----------------------------------|--|--|--|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corporation | Aircraft Type Designation ¹ (Commercial Designation | GVI G650ER) | | | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd & Co. KG | Engine Type Designation ¹ | BR700-725A1-12 | | | |
| Additional modifications esse certificated noise levels ¹ | ntial to meet the requirements or needed to attain the | ASC 014, ASC 029 (MTOW increase, weight variant) | | | | |
| Noise Certification Basis | ICAO Annex 16, Volume I Edition / Amendment | Edition 7 / Amendment 11-B Chapter | ⁻¹ 4 | | | |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 600 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19139 | 45,177 | 37,874 | 89.8 | 95.0 | 77.5 | 89.0 | 88.3 | 98.9 | - |



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|--|--|---|-----------------------------------|--|--|--|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corporation | Aircraft Type Designation ¹ (Commercial Designation | GVI G650ER) | | | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd & Co. KG | Engine Type Designation ¹ | BR700-725A1-12 | | | |
| Additional modifications esse certificated noise levels ¹ | ntial to meet the requirements or needed to attain the | ASC 014, ASC 082 (MTOW increase, weight variant) | | | | |
| Noise Certification Basis | ICAO Annex 16, Volume I Edition / Amendment | Edition 7 / Amendment 11-B Chapte | er ¹ 4 | | | |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 500 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19140 | 45,500 | 37,874 | 89.7 | 95.0 | 77.9 | 89.0 | 88.3 | 98.9 | - |



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|---|--------------------------------|---------------------------|--|----------------------|-------------------------------|--|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corp | oration | Aircraft Type Designa (Commercial Designa | | GVI G650ER) | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd | d & Co. KG | Engine Type Designa | tion ¹ | BR700-725A1-12 | |
| Additional modifications esse certificated noise levels ¹ | ntial to meet the requirements | s or needed to attain the | ASC 014, ASC 137 (MTOW i | ncrease, MLV | V reduction) | |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Edition 8 / Amendment 13 | Chapter ¹ | 4 | |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 500 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19728 | 46,992 | 29,483 | 89.6 | 95.1 | 78.7 | 89.0 | 88.4 | 99.0 | - |



| TCDSN No.: EASA.IM.A.169 Issue: 5 | | | | | | Page 11 of 18 Date: 15 May 2024 |
|---|--------------------------------|---------------------------|--|----------------------|---------------------|------------------------------------|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corp | oration | Aircraft Type Designation (Commercial Designation) | | GVI G650) | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Lto | d & Co. KG | Engine Type Designa | tion ¹ | BR700-725A1-12 | |
| Additional modifications esser certificated noise levels ¹ | itial to meet the requirements | s or needed to attain the | ASC 137 (MLW reduction) | | | |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Edition 8 / Amendment 13 | Chapter ¹ | 4 | |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | <u>Coo</u> |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19727 | 45,177 | 29,483 | 89.8 | 95.0 | 77.5 | 89.0 | 88.4 | 98.9 | - |



| TCDSN No.: EASA.IM.A.16 Issue: 5 | 59 | | | | | Page 12 of 18 Date: 15 May 2024 |
|---|--|------------------------------|--|----------------------|------------------------|------------------------------------|
| Type Certificate Holder | ⁻¹ Gulfstream Aerospace C | orporation | Aircraft Type Desi (Commercial Desi | - | GVIII-G700 G700) | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland | l Ltd & Co. KG | Engine Type Desig | gnation ¹ | BR700-730B2-1 | 4 |
| Additional modificatior certificated noise levels | ns essential to meet the requirem \mathbf{s}^1 | ents or needed to attain the | None | | | |
| Noise Certification Bas | is ICAO Annex 16, Volume | I Edition / Amendment | Edition 8 / Amendment 13 | Chapter | ¹ 14 | |
| 5464 | Maximum Mass | Lateral EPNL | Flyover EPNL | Арр | roach EPNL | |
| EASA | - 1 | | | | | See |

Level¹

75.6

Limit

89.1

Level¹

88.1

Limit

95.2

¹ See Note 1.



Record No.

A19734

Take-off¹

(kg)

48,806

Landing

(kg)

37,874

Level¹

88.3

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Note

-

Limit

99.1

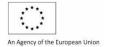
| TCDSN No.: EASA.IM.A.169 Issue: 5 | | | | | | Page 13 of 18 Date: 15 May 2024 |
|---|-------------------------------|---------------------------|--|----------------------|---------------------|------------------------------------|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corp | poration | Aircraft Type Designation (Commercial Designation) | | GVIII-G700 G700) | |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Lt | d & Co. KG | Engine Type Designa | tion ¹ | BR700-730B2-14 | |
| Additional modifications esser certificated noise levels ¹ | ntial to meet the requirement | s or needed to attain the | ASC 005 (MTOW and MLW | decrease) | | |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Edition 8 / Amendment 13 | Chapter ¹ | 14 | |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 600 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19738 | 33,974 | 33,974 | 90.3 | 94.0 | 69.4 | 89.0 | 88.1 | 98.0 | - |



| TCDSN No.: EASA.IM.A.169 Issue: 5 | | | Page 14 of 18 Date: 15 May 2024 |
|---|--|---|------------------------------------|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corporation | Aircraft Type Designation ¹ (Commercial Designation | GVIII-G700 G700) |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd & Co. KG | Engine Type Designation ¹ | BR700-730B2-14 |
| Additional modifications esser certificated noise levels ¹ | itial to meet the requirements or needed to attain the | ASC 009 (MTOW decrease) | |
| Noise Certification Basis | ICAO Annex 16, Volume I Edition / Amendment | Edition 8 / Amendment 13 Chapter ¹ | 14 |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 6.00 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19737 | 40,823 | 37,874 | 89.5 | 94.6 | 72.1 | 89.0 | 88.1 | 98.5 | - |



| TCDSN No.: EASA.IM.A.169 Issue: 5 | | | Page 15 of 18 Date: 15 May 2024 |
|---|--|---|------------------------------------|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corporation | Aircraft Type Designation ¹ (Commercial Designation | GVIII-G700 G700) |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd & Co. KG | Engine Type Designation ¹ | BR700-730B2-14 |
| Additional modifications esser certificated noise levels ¹ | ntial to meet the requirements or needed to attain the | ASC 011 (MTOW decrease) | |
| Noise Certification Basis | ICAO Annex 16, Volume I Edition / Amendment | Edition 8 / Amendment 13 Chapter ¹ | 14 |

| FAC | • | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | <u>for</u> |
|----------------|----|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record | | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A1973 | 36 | 43,091 | 37,874 | 89.2 | 94.8 | 73.1 | 89.0 | 88.1 | 98.7 | - |



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|---|--|---|------------------------------------|
| Type Certificate Holder ¹ | Gulfstream Aerospace Corporation | Aircraft Type Designation ¹ (Commercial Designation | GVIII-G700 G700) |
| Engine Manufacturer ¹ | Rolls-Royce Deutschland Ltd & Co. KG | Engine Type Designation ¹ | BR700-730B2-14 |
| Additional modifications esser certificated noise levels ¹ | ntial to meet the requirements or needed to attain the | ASC 017 (MTOW decrease) | |
| Noise Certification Basis | ICAO Annex 16, Volume I Edition / Amendment | Edition 8 / Amendment 13 Chapter ¹ | 14 |

| FACA | Maximum Mass | | Lateral EPNL | | Flyover EPNL | | Approach EPNL | | 6 |
|--------------------|-------------------------------|-----------------|--------------------|-------|--------------------|-------|--------------------|-------|-------------|
| EASA Record No. | Take-off ¹ (kg) | Landing (kg) | Level ¹ | Limit | Level ¹ | Limit | Level ¹ | Limit | See Note |
| A19735 | 45,177 | 37,874 | 88.9 | 94.9 | 73.9 | 89.0 | 88.1 | 98.9 | - |



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.IM.A.169 Notes

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.



TCDSN No.: EASA.IM.A.169 Issue: 5

Change Record

| Issue | Date | Changes |
|---------|------------------|--|
| lssue 1 | 21 December 2012 | Initial Issue |
| Issue 2 | 18 May 2016 | Record A19110 added. |
| Issue 3 | 30 July 2020 | Records A19136-A19140 added. |
| Issue 4 | 24 October 2023 | Records A19727 and A19728 added; record A19138 Flyover noise levels revised; records A19137-A19149 edition and amendment of ICAO Annex 16 revised. |
| Issue 5 | 15 May 2024 | GVIII-G700 records added. Engine manufacturer corrected. |

