



TYPE-CERTIFICATE DATA SHEET

No. IM.E.109

for

250-C28 series engines (see Note 1)

Type Certificate Holder

Rolls-Royce Corporation
450 South Meridian Street
Indianapolis, Indiana 46225-1103
USA

For Models:

250-C28B, 250-C28C, 250-C30, 250-C30G, 250-C30G/2, 250-C30M, 250-C30P, 250-C30S, 250-C40B,
250-C47B, 250-C47M, 250-C47B/8 and 250-C47E/4.



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I. General

1. Type/ Model/ Variants (see Note 1)

250-C28B, 250-C28C, 250-C30, 250-C30G, 250-C30G/2, 250-C30M, 250-C30P, 250-C30S, 250-C40B, 250-C47B, 250-C47M, 250-C47B/8 and 250-C47E/4.

2. Type Certificate Holder

Rolls-Royce Corporation
450 South Meridian Street
Indianapolis, Indiana 46225-1103
USA

3. Manufacturer

As stated in paragraph 2.

4. Date of Application

250-C28B, 250-C28C, 250-C30, 250-C30G, 250-C30G/2, 250-C30M, 250-C30P and 250-C30S: these models were certified by individual European Member States prior to EASA and not subjected to the JAA validation process. Application dates are not available.

250-C40B, 250-C47B and 250-C47M (Application to JAA): 25 April 1996

250-C47B/8 (Application to EASA): 26 June 2014

250-C47E/4 (Application to EASA): 02 May 2016

5. EASA Type Certification Date

| Model | Certification date |
|------------|---|
| 250-C28B | 19 January 1979 (CAA – UK) |
| 250-C28C | |
| 250-C30 | |
| 250-C30G | 13 November 1991 (LBA – Germany) |
| 250-C30G/2 | 06 July 1993 (LBA – Germany) |
| 250-C30M | 29 May 1984 (DGAC – France) |
| 250-C30P | 03 September 1982 (LBA – Germany) |
| 250-C30S | 07 October 1982 (CAA – UK) |
| 250-C40B | 19 April 2002 (JAA validation recommendation date) |
| 250-C47B | 4 August 1999 (JAA validation recommendation date) |
| 250-C47M | |
| 250-C47B/8 | 12 February 2016 (EASA) |
| 250-C47E/4 | 10 May 2017 |



II. Certification Basis

1. State of Design Authority Certification Basis

Refer to FAA Type Certificate Data Sheet E1GL

2. Reference Date for determining the applicable airworthiness requirements

2 October 1973

3. EASA Certification Basis

For 250-C28B, 250-C28C, 250-C30, 250-C30G, 250-C30G/2, 250-C30M, 250-C30P and 250-C30S models: same as stated in Section II.1 as per Article 3 of (EU)748/2012.

3.1. Airworthiness Standards

250-C47B, 250-C47M, 250-C40B and 250-C47B/8:

- JAR-E Effective 15 September 1972 as amended by Blue Papers No. 553, 555, 558, 559, 565, 566 and 616.
- JAR-E Change 8 plus Orange Paper E/91/1 dated 27 May 1991 and E/93/1 dated 17 May 1993 for paragraph E50, E150(c)(1), E530(f), E740.

250-C47E/4:

- JAR-E Effective 15 September 1972 as amended by Blue Papers No. 553, 558, 559, 565 and 566.
- JAR-E Change 8 plus Orange Paper E/91/1 dated 27 May 1991 for paragraphs E150(c)(1), E530(a), (b), (c), (f), (g), (h) and E740.
- CS-E amdt 4 dated 12 March 2015 for paragraphs E20, E25, E40, E50, E60, E70, E80, E90, E100, E500, E510, E520, E560, E570, E670, E700, E730, E745, E810, E860.

3.2. Special Conditions (SC)

250-C40B:

- 30-Second and 2-Minute One Engine Inoperative Rating

3.3. Equivalent Safety Findings

250-C47B, 250-C47M, 250-C40B, 250-C47B/8 and 250-C47E/4:

- JAR-E Chapter C4-4 para. 20.1 Rotor Integrity
- JAR-E Chapter C4-4 para. 2. Pressure Tests

250-C40B:

- JAR-E 740 Endurance Tests



3.4. Deviations

250-C47B, 250-C47M and 250-C40B:

- Blue Paper No.559 C4-2, 2.2.1(c) Oil System

3.5. Environmental Protection

250-C40B, 250-C47B and 250-C47M:

- Fuel venting – Environmental protection requirements of ICAO Annex 16 Volume II, second edition, as applicable to turboshaft engines.

250-C47B/8:

- Fuel Venting – Environmental protection requirements of Amendment 7 of ICAO Annex 16 Volume II, Part II, Chapter 2, effective 17 November 2011, as applicable to turboshaft engines.

250-C47E/4:

- Fuel Venting – Environmental protection requirements of Amendment 8 of ICAO Annex 16 Volume II, Part II, Chapter 2, effective 1 January 2015, as applicable to turboshaft engines.

III. Technical Characteristics

1. Type Design Definition

| Model | Assembly Drawing P/N |
|------------|----------------------|
| 250-C28B | 6895000 |
| 250-C28C | 6898600 |
| 250-C30 | 6890000 |
| 250-C30G | 23039781 |
| 250-C30G/2 | 23053999 |
| 250-C30M | 23005219 |
| 250-C30P | 23062065 |
| 250-C30S | 23005290 |
| 250-C40B | 23063378 |
| 250-C47B | 23063392 |
| 250-C47M | 23065460 |
| 250-C47B/8 | M250-10672 |
| 250-C47E/4 | M250-10761 |



2. Description

The engine is a free turbine turboshaft engine of modular design and incorporates a single stage centrifugal compressor, a combustor chamber with 1 fuel nozzle, a two-stage high pressure axial turbine, a two-stage free power turbine. Model 250-C47E/4 features a dual channel FADEC. Models 250-C47B, 250-C47M, 250-C40B and 250-C47B/8 feature a single channel electronic control system with a hydromechanical manual backup system. All other models are fully hydromechanically controlled.

3. Equipment

The engine equipment list is included in the Type Design Definition. The engine mounts and the starter-generator are supplied by the airframer.

4. Dimensions

| Model | Length (m) | Width (m) | Height (m) |
|------------|------------|-----------|------------|
| 250-C28B | 1.24 | 0.65 | 0.65 |
| 250-C28C | 1.10 | 0.56 | 0.65 |
| 250-C30 | 1.10 | 0.56 | 0.65 |
| 250-C30G | 1.10 | 0.56 | 0.65 |
| 250-C30G/2 | 1.10 | 0.56 | 0.65 |
| 250-C30M | 1.10 | 0.56 | 0.65 |
| 250-C30P | 1.10 | 0.56 | 0.63 |
| 250-C30S | 1.10 | 0.56 | 0.65 |
| 250-C40B | 1.10 | 0.56 | 0.65 |
| 250-C47B | 1.10 | 0.56 | 0.64 |
| 250-C47M | 1.10 | 0.56 | 0.65 |
| 250-C47B/8 | 1.10 | 0.56 | 0.64 |
| 250-C47E/4 | 1.10 | 0.56 | 0.65 |

5. Dry Weight

| Model | Weight (kg) |
|------------|-------------|
| 250-C28B | 108.0 |
| 250-C28C | 107.0 |
| 250-C30 | 115.1 |
| 250-C30G | 115.6 |
| 250-C30G/2 | 118.7 |
| 250-C30M | 114.2 |
| 250-C30P | 112.4 |
| 250-C30S | 114.6 |
| 250-C40B | 127.0 |
| 250-C47B | 126.3 |
| 250-C47M | 126.3 |
| 250-C47B/8 | 126.3 |
| 250-C47E/4 | 131.5 |

Dry weight includes basic engine, fuel pump, ignition, fuel control systems and electrical harness.



6. Ratings

The engine ratings are based on Sea Level ISA static conditions with no customer bleed or external power extraction.

| Model | Take-Off Power (5 minutes, kW) | Maximum Continuous Power (kW) | Continuous OEI Power (kW) | 30-Min OEI Power (kW) | 2.5 Min OEI Power (kW) | 2-Min OEI Power (kW) | 30-Sec OEI Power (kW) |
|------------|--------------------------------|-------------------------------|---------------------------|-----------------------|------------------------|----------------------|-----------------------|
| 250-C28B | 373 | 373 | - | 373 | 410 | - | - |
| 250-C28C | 373 | 373 | - | 373 | 410 | - | - |
| 250-C30 | 485 | 485 | - | 485 | 522 | - | - |
| 250-C30G | 485 | 485 | - | 485 | 522 | - | - |
| 250-C30G/2 | 485 | 415 | 485 | 485 | 522 | - | - |
| 250-C30M | 485 | 447 | - | - | - | - | - |
| 250-C30P | 485 | 447 | - | 485 | 522 | - | - |
| 250-C30S | 485 | 485 | - | 485 | 522 | - | - |
| 250-C40B | 533 | 457 | 533 | 533 | - | 574 | 611 |
| 250-C47B | 485 | 447 | - | - | - | - | - |
| 250-C47M | 485 | 447 | - | - | - | - | - |
| 250-C47B/8 | 485 | 447 | - | - | - | - | - |
| 250-C47E/4 | 485 | 447 | - | - | - | - | - |

7. Control System

Model 250-C47E/4 features a dual channel FADEC. Models 250-C47B, 250-C47M, 250-C40B and 250-C47B/8 feature a single channel electronic control system with a hydromechanical manual backup system. All other models do not have an electronic control system and are fully hydromechanically controlled.

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

Refer to the relevant engine Operation and Maintenance Manual for approved fluids.

9. Aircraft Accessory Drives

250-C28B and 250-C28C models:

| | Rotation * | Speed ratio to turbine | Max shaft torque (Nm) | | Maximum overhung moment (Nm) |
|---------------------------------|------------|------------------------|-----------------------|--------|------------------------------|
| | | | Continuous | Static | |
| Driven by gas producer turbine: | | | | | |
| Tachometer | CCW | 0.0825 | 0.8 | 5.6 | 0.5 |
| Starter-generator | CW | 0.2351 | 62.1 | 124.3 | 16.9 |
| Driven by power turbine: | | | | | |
| Tachometer | CCW | 0.1257 | 0.8 | 5.6 | 0.5 |
| Power take-off | CW | 0.18 | 663.0 | 1129.8 | 11.3 |
| Spare | CW | 0.36 | 8.9 | 44.6 | 16.9 |

* CW: Clockwise, CCW: Counter Clockwise



250-C30, 250-C30G, 250-C30G/2, 250-C30M, 250-C30P, 250-C30S, 250-C40B, 250-C47B, 250-C47M, 250-C47B/8 and 250-C47E/4 models:

| | Rotation* | Speed ratio to turbine | Max shaft torque (Nm) | | Maximum overhung moment (Nm) |
|--|-----------|------------------------|-----------------------|--------|------------------------------|
| | | | Continuous | Static | |
| Driven by gas producer turbine: | | | | | |
| Tachometer | CCW | 0.0825 | 0.8 | 5.6 | 0.5 |
| Starter-generator | CW | 0.2351 | 62.1 | 124.3 | 16.9 |
| Spare | CCW | 0.2351 | 62.1 | 124.3 | 16.9 |
| Driven by power turbine: | | | | | |
| Tachometer | CCW | 0.137 | 0.8 | 5.6 | 0.5 |
| Tachometer (250-C30G, -C30G/2 and -C40B only) | CCW | 0.2168 | 0.5 | 3.6 | 0.5 |
| Power take-off | CW | 0.1963 | 850.1 | 1129.8 | 11.3 |
| Power take-off (250-C30G only) | CW | 0.3105 | 538.4 | 714.2 | 11.3 |
| Power take-off (250-C30G/2 only): | | | | | |
| Front drive (2.5 min OEI limit maximum) | CCW | 0.3105 | 547.5 | 728.0 | 42.9 |
| Rear drive | CW | 0.3105 | 37.3 | 37.3 | 1.1 |
| Power take-off (250-C40B only): | | | | | |
| Front drive (30 sec OEI limit maximum) | CCW | 0.3105 | 626.4 | 728.0 | 42.9 |
| Front drive (30 min OEI limit maximum) | CCW | 0.3105 | 585.7 | 728.0 | 42.9 |
| Rear drive | CW | 0.3105 | 37.3 | 37.3 | 1.1 |
| Power take-off (250-C47B, -C47B/8 and -C47E/4 only): | | | | | |
| Front drive | CCW | 0.1963 | 850.1 | 1129.8 | 109.5 |
| Rear drive | CW | 0.1963 | 850.1 | 1129.8 | 11.3 |
| Power take-off (250-C47M only): | | | | | |
| Front drive | CCW | 0.1963 | 850.1 | 1129.8 | 11.3 |
| Rear drive | CW | 0.1963 | 850.1 | 1129.8 | 11.3 |
| Spare (250-C30P and -C47E/4 only) | CW | 0.3925 | 8.9 | 44.6 | 16.9 |

* CW: Clockwise, CCW: Counter Clockwise



10. Maximum Permissible Air Bleed Extraction

External air bleed may not exceed 4.0% of the core air flow for the 250-C28B and 250C28C models.

For all other models, external air bleed may not exceed 4.5% of the core airflow.

11. Time Limited Dispatch

The 250-C47E/4 engine is not approved for Time Limited Dispatch in accordance with CS-E 1030.

Not applicable to any other engine.



IV. Operating Limitations

1. Temperature Limits (see Note 11)

All temperatures are in given in °C.

| Model | 30-Sec OEI | 2-Min OEI | 2.5 Min OEI | 30-Min OEI | Continuous OEI | Take-Off (5 min) | Maximum Continuous | Maximum transient | Starting (10 seconds) |
|------------|------------|-----------|-------------|------------|----------------|------------------|--------------------|-------------------------|-----------------------|
| 250-C28B | - | - | 810 | 791 | - | 791 | 791 | 810 to 871 (6 seconds) | 810 to 927 |
| 250-C28C | - | - | 810 | 791 | - | 791 | 791 | 810 to 871 (6 seconds) | 810 to 927 |
| 250-C30 | - | - | 826 | 798 | - | 768 | 768 | 826 to 906 (12 seconds) | 826 to 927 |
| 250-C30G | - | - | 826 | 798 | - | 768 | 768 | 826 to 906 (12 seconds) | 826 to 927 |
| 250-C30G/2 | - | - | 826 | 798 | 768 | 768 | 716 | 826 to 906 (12 seconds) | 826 to 927 |
| 250-C30M | - | - | - | - | - | 768 | 716 | 768 to 871 (12 seconds) | 826 to 927 |
| 250-C30P | - | - | 826 | 798 | - | 768 | 716 | 768 to 871 (12 seconds) | 826 to 927 |
| 250-C30S | - | - | 826 | 798 | - | 768 | 768 | 826 to 906 (12 seconds) | 826 to 927 |
| 250-C40B | 871 | 827 | - | 798 | 779 | 779 | 727 | 798 to 906 (12 seconds) | 843 to 927 |
| 250-C47B | - | - | - | - | - | 779 | 727 | 779 to 906 (12 seconds) | 843 to 927 |
| 250-C47M | - | - | - | - | - | 779 | 727 | 779 to 906 (12 seconds) | 843 to 927 |
| 250-C47B/8 | - | - | - | - | - | 779 | 727 | 779 to 906 (12 seconds) | 843 to 927 |
| 250-C47E/4 | - | - | - | - | - | 779 | 727 | 779 to 906 (12 seconds) | 843 to 927 |

A momentary peak of 1 second maximum at 927°C during starting is allowed for all engines.



2. Speed Limits (see Note 11)

| Model | Output shaft speed | | | | Gas producer speed | |
|--|--|--|------------------------------|-------------------|------------------------------|-------------------|
| | Max transient (up to 15 sec) | Maximum sustained | Min transient (up to 15 sec) | Minimum sustained | Max transient (up to 10 sec) | Maximum sustained |
| 250-C28B and -C28C: 100% output shaft speed = 6016 rpm 100% gas producer speed = 50940 rpm | Varies linearly from 115% at autorotation to 105% at takeoff | Varies linearly from 113% at autorotation to 103% at takeoff | - | - | 105% | 104% |
| 250-C30, -C30M, -C30P, -C30S and -C47M: 100% output shaft speed = 6016 rpm 100% gas producer speed = 51000 rpm | 119% | 107.10% | 71.80% | 91.50% | 106.5% | 105% |
| 250-C30G: 100% output shaft speed = 9518 rpm 100% gas producer speed = 51000 rpm | 119% | 107.1% | 71.8% | 91.5% | 106.5% | 105% |
| 250-C30G/2: 100% output shaft speed = 9545 rpm 100% gas producer speed = 51000 rpm | 118.7% | 106.8 | 71.6% | 91.3% | 106.5% | 105% |
| 250-C40B: 100% output shaft speed = 9598 rpm 100% gas producer speed = 51000 rpm | 118% | 106.3% | 71.2% | 90.7% | 106.5% | 105% |
| 250-C47B, -C47B/8, -C47E/4: 100% output shaft speed = 6317 rpm 100% gas producer speed = 51000 rpm | 113.3% | 102.1% | 68.4% | 87.1% | 106.5% | 105% |



3. Torque Limits (see Note 11)

All torque values are given in Nm.

| Model | up to 2 sec | up to 10 sec | up to 16 sec | 30-Sec OEI | 2-Min OEI | 2.5 Min OEI | 30-Min OEI | Continuous OEI | Take-Off (5 min) | Maximum Continuous |
|------------|-------------|--------------|--------------|------------|-----------|-------------|------------|----------------|------------------|--------------------|
| 250-C28B | - | 677 | - | - | - | 663 | 628 | - | 628 | 628 |
| 250-C28C | - | 830 | - | - | - | 663 | 628 | - | 628 | 628 |
| 250-C30 | - | - | 1189 | - | - | 850 | 800 | - | 800 | 800 |
| 250-C30G | - | - | 706 | - | - | 540 | 506 | - | 506 | 506 |
| 250-C30G/2 | - | - | 706 | - | - | 548 | 533 | 504 | 504 | 416 |
| 250-C30M | 930 | 864 | - | - | - | - | - | - | 800 | 710 |
| 250-C30P | 930 | 864 | - | - | - | 850 | 800 | - | 800 | 710 |
| 250-C30S | - | - | 1189 | - | - | 850 | 800 | - | 800 | 800 |
| 250-C40B | - | - | 706 | 626 | 602 | - | 586 | 555 | 555 | 458 |
| 250-C47B | 930 | 864 | - | - | - | - | - | - | 800 | 710 |
| 250-C47M | 930 | 864 | - | - | - | - | - | - | 800 | 710 |
| 250-C47B/8 | 930 | 864 | - | - | - | - | - | - | 800 | 710 |
| 250-C47E/4 | 930 | 864 | - | - | - | - | - | - | 800 | 710 |

4. Pressure Limits

4.1 Fuel Pressure

The minimum required fuel pressure varies as a function of fuel type, fuel temperature and altitude; method for determining fuel pressure is included in the relevant Installation Design Manual (see section V of this TCDS).

The maximum fuel pressure is 172 kPa for all models, except for the 250-C47E/4, for which the maximum fuel pressure is 344 kPa.



4.2 Oil Pressure

| Operating oil gauge pressure (kPa) | | | Minimum oil pump inlet pressure |
|------------------------------------|---|-------------------------------|---------------------------------|
| 94% gas generator speed and above | between 79% and 94% gas generator speed | below 79% gas generator speed | |
| 793 to 896 | 620 to 896 | 344 to 896 | 17 kPa |

V. Operating and Service Instructions

| Model | Installation Design Manual | Operation and Maintenance Manual | Overhaul Manual |
|------------|----------------------------|----------------------------------|-----------------|
| 250-C28B | 16W5 | 16W2 | 16W3 |
| 250-C28C | 16W5C | 16W2 | 16W3 |
| 250-C30 | 14W5 | 14W2 | 14W3 |
| 250-C30G | 14W5G | 14W2 | 14W3 |
| 250-C30G/2 | 14W5G/2 | 14W2 | 14W3 |
| 250-C30M | 14W5M | 14W2 | 14W3 |
| 250-C30P | 14W5P | 14W2 | 14W3 |
| 250-C30S | 14W5 + Suppl A | 14W2 | 14W3 |
| 250-C40B | CSP24001 | CSP21000 | CSP22001 |
| 250-C47B | CSP24002 | CSP21001 | CSP22001 |
| 250-C47M | CSP24003 | CSP21004 | CSP22001 |
| 250-C47B/8 | CSP24002 | CSP21001 | CSP22001 |
| 250-C47E/4 | CSP24040 | CSP21017 | CSP22011 |

VI. Notes

- Note 1:** The 250-C28 model is the original Type designation certified by the State of Design Authority. All other models are variant from this Type. This model however has not been subjected to an EASA or JAA validation process, nor has it been previously validated by a European country.
- Note 2:** A magnetic oil drain plug (chip detector) indicator lamp is an installation requirement.
- Note 3:** For 250-C40B, -C47B, -C47B/8 and -C47M models, the functionality of the Power Turbine overspeed protection system is to be verified prior to each flight.
- Note 4:** The ejector tube assembly for the Model 250-C28B is airframe mounted.
- Note 5:** Approved emergency fuels for each of the 250 engine models are provided in the Operation and Maintenance manuals. The 250-C28B, -C28C and -C30P models are limited to the amount of fuel required to operate the engine for not over 6 hours during any overhaul period.
- Emergency use of aviation gasoline is permitted in Models 250-C30, -C30S, -C30M, -C30G, and -30G/2 for a maximum of 6 hours during any overhaul period provided aircraft boost pumps are available and turned on.
- Emergency use of aviation gasoline is permitted in Model 250-C40B, -C47B, -C47B/8, -C47E/4 and -C47M for a maximum of 6 hours during any overhaul period. It is not



necessary to purge the unused fuel from the system before refueling with different type fuels. No fuel control adjustment is required when switching fuels.

Fuels containing Tri-Cresyl-Phosphate additives shall not be used. The approved anti-icing additives are provided in the Operation and Maintenance Manual for each engine model.

- Note 6:** Model 250-C30, -C30S and -C30G engines are equipped with dual ignition. All other models have a single ignition system. A dual ignition kit is available for the Model 250-C28B and -C28C engines.
- Note 7:** The EASA-approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the Operation and Maintenance Manual, chapter 05 "Airworthiness Limitations". Distributor Information Letters (DIL) 190 and 202 establish acceptable crack limits suitable for return to service of first stage and second stage turbine wheels, respectively, in time continued (repaired) engines.
- Note 8:** The Engines produced under this type certificate are approved for operation with unprotected inlets having been tested in accordance with Group I and Group II Foreign Objects Ingestion criteria of FAA Advisory Circular AC 33-1B.
- Note 9:** Compliance with Rolls-Royce Alert Commercial Engine Bulletin CEB-A-73-3018 (Disarm N2 Electronic Overspeed Control System) and any subsequent approved revisions are an installation requirement for the Model 250-C30M and -C30P engines.
- Note 10:** For 250-C40B, -C47B, -C47B/8 and -C47M models, the software for the electronic engine control has been developed and tested in accordance with the provisions of Flight Critical category (level 1) of RTCA DO 178A, and RTCA DO 178B for the 250-C47E/4 model.
- Note 11:** Maintenance actions are required after transient temperature, speed and torque excursions, as described in the Operation and Maintenance Manual.

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

n/a

II. Type Certificate Holder Record

Rolls-Royce Corporation

III. Change Record

| Issue | Date | Changes | TC issue |
|--------------|------------------|--|------------------------------------|
| Issue 01 | 12 February 2016 | Initial Issue | Initial Issue, 12 February 2016 |
| Issue 02 | 10 May 2017 | Addition of the 250-C47E/4 model | Issue 02, 10 May 2017 |
| Issue 03 | 19 June 2017 | Typographical error in address of TC Holder | Issue 03, 19 June 2017 |
| Issue 04 | 12 October 2017 | Withdrawal of Special Condition "Transient over-temperature, over-speed and over-torque limit approval" for 250-C47B/8 and 250-C47E/4 engines. Increase in N1 speed transient. | Issue 03, 19 June 2017 |

-END-

