

## **1.0 SCOPE AND INTRODUCTION**

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### **1.3 A Brief Description of the 767 Family of Airplanes**

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### 1.1 Scope

This document provides, in a standardized format, airplane characteristics data for general airport planning. Since operational practices vary among airlines, specific data should be coordinated with the using airlines prior to facility design. Boeing Commercial Airplanes should be contacted for any additional information required.

Content of the document reflects the results of a coordinated effort by representatives from the following organizations:

- Aerospace Industries Association
- Airports Council International - North America
- Air Transport Association of America
- International Air Transport Association

The airport planner may also want to consider the information presented in the "Commercial Aircraft Design Characteristics – Trends and Growth Projections," available from the US AIA, 1250 Eye St., Washington DC 20005, for long-range planning needs. This document is updated periodically and represents the coordinated efforts of the following organizations regarding future aircraft growth trends:

- International Coordinating Council of Aerospace Industries Associations
- Airports Council International - North American and World Organizations
- Air Transport Association of America
- International Air Transport Association

## **1.2 Introduction**

This document conforms to NAS 3601. It provides characteristics of the Boeing Model 767 airplane for airport planners and operators, airlines, architectural and engineering consultant organizations, and other interested industry agencies. Airplane changes and available options may alter model characteristics; the data presented herein reflect typical airplanes in each model category.

For additional information contact:

Boeing Commercial Airplanes  
P.O. Box 3707  
Seattle, Washington 98124-2207  
U.S.A.

Attention: Manager, Airport Technology  
Mail Code 67-KR

### **1.3 A Brief Description of the 767 Family of Airplanes**

The 767 is a twin-engine family of airplanes designed for medium to long range flights. It is powered by advanced high bypass ratio engines. Characteristics unique to the 767 include:

- Advanced aerodynamics
- Stronger and lighter materials
- Two-crew cockpit with digital flight deck systems
- High bypass ratio engines
- Twin-aisle seating
- Extended range operations

#### **767-200, -200ER**

The 767-200 can carry up to 216 passengers and baggage over 3,900 nautical miles. The 767-200ER, with the center fuel tanks can also carry 216 passengers and baggage on routes over 5,200 nautical miles. Seating arrangement varies with airline option. Both airplane models have identical outside dimensions.

#### **767-300, -300ER**

The 767-300 and -300ER are 21 feet 1 inch longer than the 767-200. The additional length enables the airplane to carry more passengers. The -300ER is also fitted with center fuel tanks for additional range. Except for the longer fuselage, the -300 and the -300ER have dimensions identical to the -200 and -200ER.

The -300 and -300ER can be fitted with an optional mid-cabin door to facilitate loading and unloading of passengers. This arrangement also allows alternate passenger accommodations, up to and including maximum passenger capacity (exit limit).

#### **767-300 Freighter**

The 767-300 Freighter is equipped with a main deck cargo door that enables it to load cargo containers and/or pallets on the main deck. The main deck can accommodate either a manual cargo handling system or a powered transfer system (General Market Freighter). The 767-300 Freighter does not have windows and doors, except for the left entry door for crew access.

## **767-400ER**

The 767-400ER is 21 feet longer than the 767-300. The -400ER is equipped with a new-generation wing design and new engines to enable it to achieve long range operations along with the additional payload.

### **Military Derivatives**

The 767-200 airplane is also delivered for military uses. These derivatives are not mentioned in this document because they are equipped with special equipment used for special missions. Some of the external dimensions may be similar to the standard 767-200 airplane such that some of the data in this document can be used.

### **Extended Range Operations (ETOPS)**

The 767 can be equipped with special features to enable it to fly extended range operations in remote areas. This feature is standard on the 767-400ER.

### **767 Engines**

The 767 is offered with a variety of engines. These engines are high bypass ratio engines which are more economical to maintain and are more efficient. See Table 1.3.1 for engine applicability.

### **Cargo Handling**

The lower lobe cargo compartments can accommodate a variety of containers and pallets now used in narrow-body and wide-body airplanes. The optional large forward cargo door (standard on the 767-200ER, 767-300ER, 767-300 Freighter, and 767-400ER) allow loading of 96- by 125-in (2.44 by 3.18 m) pallets and also split-engine carriage kits. In addition, bulk cargo is loaded in the aft cargo compartment and the forward cargo compartment where space permits.

### **Ground Servicing**

The 767 has ground service connections compatible with existing ground service equipment, and no special equipment is necessary.

### **Document Applicability**

This document contains data pertinent to all 767 airplane models (767-200/200ER/300/300ER/300 Freighter/400ER).

| ENGINE MODEL<br>(2 EACH) | RATED SLST THRUST PER ENGINE | MAXIMUM DESIGN TAXI WEIGHT – 1,000 LB (1,000 KG)                 |                                                                                                    |                                                                                   |                                                                                   |                   |               |
|--------------------------|------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|---------------|
|                          |                              | 767-200                                                          | 767-200ER                                                                                          | 767-300                                                                           | 767-300ER                                                                         | 767-300 FREIGHTER | 767-400ER     |
| JT9D-7R4D                | 48,000 LB<br>(21,772 KG)     | 284.0 (128.8)<br>302.0 (137.0)<br>312.0 (141.5)<br>317.0 (143.8) | 337.0 (152.9)<br>347.0 (157.4)<br>352.2 (159.8)                                                    | 347.0 (157.4)<br>352.0 (159.7)                                                    | NOT AVAILABLE                                                                     | NOT AVAILABLE     | NOT AVAILABLE |
| CF6-80A                  | 48,000 LB<br>(21,772 KG)     |                                                                  |                                                                                                    |                                                                                   |                                                                                   |                   |               |
| JT9D-7R4E                | 50,000 LB<br>(22,680 KG)     |                                                                  |                                                                                                    |                                                                                   |                                                                                   |                   |               |
| CF6-80A2                 | 50,000 LB<br>(22,680 KG)     |                                                                  |                                                                                                    |                                                                                   |                                                                                   |                   |               |
| PW4052                   | 50,200 LB<br>(22,770 KG)     | 302.0 (137.0)<br>312.0 (141.5)<br>317.0 (143.8)                  | 337.0 (152.9)<br>347.0 (157.4)<br>352.2 (159.8)<br>381.0 (172.8)<br>388.0 (176.0)<br>396.0 (179.6) | NOT AVAILABLE                                                                     | NOT AVAILABLE                                                                     | NOT AVAILABLE     |               |
| CF6-80C2-B2              | 52,500 LB<br>(23,814 KG)     |                                                                  |                                                                                                    |                                                                                   |                                                                                   |                   |               |
| CF6-80C2-B4              | 57,900 LB<br>(26,263 KG)     | NOT AVAILABLE                                                    | NOT AVAILABLE                                                                                      | 381.0 (172.8)<br>388.0 (176.0)<br>401.0 (181.9)<br>409.0 (185.5)<br>413.0 (187.3) | 381.0 (172.8)<br>388.0 (176.0)<br>401.0 (181.9)<br>409.0 (185.5)<br>413.0 (187.3) | NOT AVAILABLE     |               |
| PW4056                   | 56,750 LB<br>(25,741 KG)     |                                                                  |                                                                                                    |                                                                                   |                                                                                   |                   |               |
| PW4060                   | 60,000 LB<br>(27,216 KG)     |                                                                  | NOT AVAILABLE                                                                                      |                                                                                   |                                                                                   |                   |               |
| CF6-80C2-B6              | 61,500 LB<br>(27,896 KG)     |                                                                  |                                                                                                    |                                                                                   |                                                                                   |                   |               |
| RB211-524G               | 58,000 LB<br>(26,308 KG)     |                                                                  | 337.0 (152.9)<br>347.0 (157.4)<br>352.2 (159.8)                                                    |                                                                                   |                                                                                   |                   |               |
| RB211-524H               | 60,600 LB<br>(27,488 KG)     |                                                                  | 347.0 (157.4)<br>352.0 (159.7)                                                                     |                                                                                   |                                                                                   |                   |               |
| CF6-80C2-B8F             | 60,600 LB<br>(27,488 KG)     | NOT AVAILABLE                                                    | NOT AVAILABLE                                                                                      | NOT AVAILABLE                                                                     | NOT AVAILABLE                                                                     | 451.0 (204.6)     |               |
| CF6-80C2-B7F1            | 60,600 LB<br>(27,488 KG)     |                                                                  |                                                                                                    |                                                                                   |                                                                                   |                   |               |
| PW4062                   | 60,600 LB<br>(27,488 KG)     |                                                                  |                                                                                                    |                                                                                   |                                                                                   |                   |               |

NOTES:

- ENGINE/TAXI WEIGHT COMBINATIONS SHOWN ARE AS DELIVERED OR AS OFFERED BY BOEING COMMERCIAL AIRPLANES. CERTAIN ENGINES MAY NOT YET BE CERTIFICATED.
- CONSULT WITH USING AIRLINE FOR ACTUAL OR PLANNED ENGINE/WEIGHT COMBINATION.
- SEE SECTION 2.1 GENERAL CHARACTERISTICS FOR DETAILS ON SELECTED AIRPLANES.

**1.3.1 BRIEF DESCRIPTION – ENGINE/WEIGHT COMBINATIONS**  
MODEL 767

D6-58328