

# CS100

Building on the Bombardier\* Aerospace tradition of innovation, the CS100\* aircraft is optimized for the longer range, single-aisle, 100- to 125-seat market. The CSeries\* family of aircraft delivers the lowest operating cost in its class, 20% fuel burn advantage, exceptional operational flexibility, widebody comfort and an unmatched environmental scorecard.



**CSERIES**

**BOMBARDIER**

# CS100



## AVIONICS INFO

### ADVANCED FLIGHT DECK:

- Fly-by-Wire (FBW) with Envelope Protection
- Side Stick Controls
- Large LCD Displays
- CAT IIIa Autoland
- Weather Radar with Predictive Windshear
- Automatic Dependent Surveillance-Broadcast (ADS-B) Out
- Controller Pilot Data Link Communication (CPDLC) Ready

### OPTIONAL FEATURES:

- Single / Dual Head-Up Guidance System (HGS)
- Electronic Flight Bag (EFB)

## ENGINE

Type	2 Pratt & Whitney PurePower™ PW1000G** engines		
Thrust	CS100	21,000 lb.	93.4 kN
	CS100 ER	23,300 lb.	103.6 kN
Flat Rating	ISA + 15.0 C		

## PERFORMANCE

### RANGE (225 LB. / 102 KG PER PAX., MTOW, NORMAL CRUISE)

CS100	(110 pax. @ 32" pitch)	2,200 NM	2,532 SM	4,074 km
CS100 ER	(110 pax. @ 32" pitch)	2,950 NM	3,395 SM	5,463 km

### SPEED (FL370, ISA)

Maximum Cruise Speed	0.82 Mach	470 kts	541 mph	871 km/h
Normal Cruise Speed	0.78 Mach	447 kts	515 mph	829 km/h

### TAKEOFF FIELD LENGTH (SL, ISA, MTOW, MAX. THRUST)

CS100	4,950 ft.	1,509 m
CS100 ER	4,950 ft.	1,509 m

### LANDING FIELD LENGTH (SL, MLW)

CS100	4,430 ft.	1,350 m
CS100 ER	4,430 ft.	1,350 m

## CEILING

Maximum Operating Altitude	41,000 ft.	12,497 m
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## NOISE LEVEL (CS100 ER)

Margin to Chapter 4	21 EPNdB
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## EMISSIONS (MARGINS TO CAEP6)

NO <sub>x</sub> - CS100	56 %
NO <sub>x</sub> - CS100 ER	58 %
Smoke	80 %
UHC (Unburned Hydrocarbons)	85 %
CO	80 %

## GENERAL

Flight Crew	2
Cabin Crew	2 to 5
Passengers	Standard Configuration - 110 pax Maximum Capacity - 125 pax

## EXTERNAL DIMENSIONS

Length	114 ft. 6 in.	34.9 m
Wingspan	115 ft. 1 in.	35.1 m
Wing Area (net)	1,209 ft. <sup>2</sup>	112.3 m <sup>2</sup>
Height	37 ft. 9 in.	11.5 m
Fuselage Maximum Diameter	12 ft. 2 in.	3.7 m

## INTERNAL DIMENSIONS

Cabin Length	74 ft. 7 in.	22.7 m
Cabin Maximum Width (Centerline)	10 ft. 9 in.	3.28 m
Cabin Width (Floor Level)	10 ft. 1 in.	3.06 m
Cabin Aisle Height	7 ft. 0 in.	2.13 m
Cabin Aisle Width	20.0 in.	0.51 m
Seat Width (Aisle and Window)	18.5 in.	0.47 m
Seat Width (Middle)	19.0 in.	0.48 m
Overhead Bin Volume per Pax	2.4 ft. <sup>3</sup>	0.07 m <sup>3</sup>
Cargo Volume	819 ft. <sup>3</sup>	23.2 m <sup>3</sup>
Floor Area	750 ft. <sup>2</sup>	70 m <sup>2</sup>

## DOORS & EXITS

PASSENGER DOOR	HEIGHT	WIDTH	HEIGHT TO SILL
LH FWD	6 ft. 2 in. / 1.88 m	2 ft. 8 in. / 0.81 m	10 ft. 1 in. / 3.06 m
LH AFT	6 ft. 0 in. / 1.83 m	2 ft. 6 in. / 0.76 m	10 ft. 1 in. / 3.06 m
CARGO DOOR	HEIGHT	WIDTH	HEIGHT TO SILL
FWD	2 ft. 8 in. / 0.81 m	3 ft. 8 in. / 1.12 m	6 ft. 2 in. / 1.88 m
AFT	2 ft. 8 in. / 0.81 m	3 ft. 8 in. / 1.12 m	6 ft. 2 in. / 1.88 m
SERVICE DOOR	HEIGHT	WIDTH	HEIGHT TO SILL
RH FWD	5 ft. 0 in. / 1.52 m	2 ft. 6 in. / 0.76 m	10 ft. 1 in. / 3.06 m
RH AFT	5 ft. 0 in. / 1.52 m	2 ft. 6 in. / 0.76 m	10 ft. 1 in. / 3.06 m
OVERWING EXITS	HEIGHT	WIDTH	
LH / RH	3 ft. 6 in. / 1.08 m	1 ft. 11 in. / 0.59 m	

## WEIGHTS

### MAXIMUM RAMP WEIGHT

CS100	122,100 lb.	55,384 kg
CS100 ER	129,200 lb.	58,605 kg

### MAXIMUM TAKEOFF WEIGHT

CS100	121,100 lb.	54,931 kg
CS100 ER	128,200 lb.	58,151 kg

### MAXIMUM LANDING WEIGHT

CS100 / CS100 ER	111,500 lb.	50,576 kg
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### MAXIMUM PAYLOAD

CS100 / CS100 ER	32,100 lb.	14,560 kg
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### CARGO WEIGHT

CS100 / CS100 ER	8,190 lb.	3,715 kg
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The CSeries aircraft program is currently in development phase and as such is subject to changes in family strategy, branding, capacity, performance, design and / or systems. All specifications and data are approximate, may change without notice and are subject to certain operating rules, assumptions and other conditions. This document does not constitute an offer, commitment, representation, guarantee or warranty of any kind. The configuration and performance of the aircraft may differ from the image shown and, together with any related commitment, representations, guarantee or warranty, shall be determined in a final purchase agreement.

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