

C Series



BOMBARDIER
the evolution of mobility

CS100

GENERAL

Flight Crew	Cabin Crew
2	3 to 5
Same type rating as CS300	
Passengers	
Dual class	108 passengers (38/32 in. pitch)
Single class	120 passengers (32 in. pitch)
Maximum Capacity	133 passengers (28 in. pitch)

AVIONICS INFO

Advanced Flight Deck

- Advanced fly-by-wire with full envelope protection & speed stabilization
- Five large 15.1" LCD displays
- Side stick controls
- Cat IIIa Autoland
- Graphical flight management system
- Advanced multi-scan weather radar
- Required Navigation Performance Authorization Required (RNP AR)

Optional Features

- CAT IIIb Autoland
- Single or dual Head-Up Display system (HUD)
- Class 2 electronic flight bag
- Integrated flight information system
- SATCOM voice and data link
- Full-format printer with graphics capability
- Controller Pilot Data Link Communication (CPDLC)

ENGINE

2 Pratt & Whitney PurePower® PW1500G Engines

Thrust

PW1519G Engines	18,900 lbf.	84.1 kN
PW1521G Engines	21,000 lbf.	93.4 kN
PW1524G Engines	23,300 lbf.	103.6 kN
PW1525G Engines*	23,300 lbf.	103.6 kN

* Provides up to 5% additional thrust for non-static conditions.

Flat Rating

ISA + 15.0°C

PERFORMANCE

Range (225 lb. / 102 kg per pax.)

3,100 NM 3,567 SM 5,741 km

Speed

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 (ISA, SL, MTOW, Max. Thrust)

Base:	4,000 ft.	1,219 m
Max:	4,800 ft.	1,463 m

Landing Field Length¹ (ISA, SL, MLW)

Base:	4,450 ft.	1,356 m
Max:	4,550 ft.	1,387 m

CEILING

Maximum Operating Altitude

41,000 ft. / 12,497 m

NOISE LEVEL

Margin to Stage 4

Up to 20 EPNdB

EMISSIONS (MARGINS TO CAEP6)

NOx	Smoke
55%	50%
UHC (Unburned Hydrocarbons)	CO
75%	50%

EXTERNAL DIMENSIONS

Length	Wingspan
114 ft. 9 in. / 35.0 m	115 ft. 1 in. / 35.1 m
Wing Area (net)	Height
1,209 ft. ² / 112.3 m ²	37 ft. 8 in. / 11.5 m
Fuselage Max Diameter	
12 ft. 2 in. / 3.7 m	

INTERNAL DIMENSIONS

Cabin Length	Cabin Max Width (Centreline)
77 ft. 10 in. / 23.7 m	10 ft. 9 in. / 3.28 m
Cabin Width (Floor Level)	Cabin Aisle Height
10 ft. 2 in. / 3.10 m	6 ft. 11 in. / 2.11 m
Cabin Aisle Width	Seat Width (Aisle and Window)
20.0 in. / 0.51 m	18.5 in. / 0.47 m
Seat Width (Middle)	Overhead Bin Volume per Pax
19.0 in. / 0.48 m	2.4 ft. ³ / 0.07 m ³
Cargo Volume	Floor Area
838 ft. ³ / 23.7 m ³	778 ft. ² / 72 m ²

DOORS & EXITS

Passenger Door	LH FWD	LH AFT
Height	6 ft. 2 in. / 1.88 m	6 ft. 0 in. / 1.83 m
Width	2 ft. 8 in. / 0.81 m	2 ft. 6 in. / 0.76 m
Height to Sill	10 ft. 1 in. / 3.06 m	10 ft. 1 in. / 3.06 m
Cargo Door	FWD	AFT
Height	2 ft. 8 in. / 0.81 m	2 ft. 8 in. / 0.81 m
Width	3 ft. 8 in. / 1.12 m	3 ft. 8 in. / 1.12 m
Height to Sill	6 ft. 2 in. / 1.88 m	6 ft. 2 in. / 1.88 m
Service Door	RH FWD	RH AFT
Height	5 ft. 0 in. / 1.52 m	5 ft. 0 in. / 1.52 m
Width	2 ft. 6 in. / 0.76 m	2 ft. 6 in. / 0.76 m
Height to Sill	10 ft. 1 in. / 3.06 m	10 ft. 1 in. / 3.06 m
Overwing Exits	LH / RH	
Height	3 ft. 6 in. / 1.08 m	
Width	1 ft. 11 in. / 0.59 m	

WEIGHT

Maximum Ramp Weight	Maximum Takeoff Weight
Base 122,000 lb. / 55,338 kg	Base 121,000 lb. / 54,885 kg
Max 135,000 lb. / 61,235 kg	Max 134,000 lb. / 60,781 kg
Maximum Landing Weight	Maximum Payload
Base 112,500 lb. / 51,029 kg	Base 30,350 lb. / 13,767 kg
Max 115,500 lb. / 52,390 kg	Max 33,350 lb. / 15,127 kg
Cargo Weight	
8,000 lb. / 3,629 kg	



¹ Actual landing distance can be shorter when reduced payload and end of mission weights are considered.

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