

CHALLENGER 650



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With its redefinition of the ultimate in-flight experience, industry-best overall value, proven reliability and efficiency, and new performance capabilities, the *Challenger 650* aircraft is another example of Bombardier's industry leadership. A better standard equipped aircraft than any other business jet in its class provides customers with everything they need and more.

- Widest-in-class and completely redesigned cabin with leading technology, setting new standards of comfort and connectivity
- Fully equipped performance, featuring *Bombardier Vision* flight deck and optimized engines with higher thrust delivering shorter take-off field length and extra payload.
- Lowest-in-class direct operating costs and industry benchmarked reliability provide total peace of mind
- Top rated customer service - 24/7 service with 14 regional support offices worldwide



GENERAL

CAPACITY

Passengers: 10 (standard configuration)

ENGINES

GE CF34-3B MTO

Thrust: 9,220 lbf (41kN)

Flat rated to ISA + 15°C

AVIONICS

- *Bombardier Vision* flight deck
- NextGen/SESAR Growth Capable Flight Management System with LPV and RNP Basic Navigation
- Synthetic Vision System
- MultiScan™ Weather Radar
- Integrated Flight Information System with File Server Unit
- Traffic Collision Avoidance System 7.1 compliant
- Dual SBAS GPS / Dual HF / Dual DME
- Cockpit Voice Recorder / Digital Flight Data Recorder

PERFORMANCE

RANGE

Maximum range 4,000 NM 7,408 km

(Theoretical range with NBAA IFR fuel reserves, ISA conditions, 6 passengers (200 lb each) and standard BOW)

PERFORMANCE (continued)

SPEED	Mach	KTAS	km/h
High speed cruise	0.82	470	870
Long-range cruise speed	0.74	424	785

AIRFIELD PERFORMANCE

Take-off distance (SL, ISA, MTOW)	5,640 ft	1,720 m
Landing distance (SL, MLW)	2,775 ft	846 m

OPERATING ALTITUDE

Maximum operating altitude	41,000 ft	12,497 m
Initial cruise altitude (MTOW)	37,000 ft	11,278 m

DIMENSIONS

EXTERIOR

Length	68 ft 5 in	20.9 m
Wingspan	64 ft 4 in	19.6 m
Wing area	489 ft ²	45.4 m ²
Height	20 ft 8 in	6.3 m

INTERIOR

Cabin length (From cockpit divider to most aft cabin without baggage compartment)	25 ft 7 in	7.80 m
Cabin width centerline	7 ft 11 in	2.41 m
Cabin width floorline	6 ft 11 in	2.11 m
Cabin height	6 ft 0 in	1.83 m

WEIGHTS

Maximum ramp weight	48,300 lb	21,909 kg
Maximum takeoff weight	48,200 lb	21,863 kg
Maximum landing weight	38,000 lb	17,237 kg
Maximum zero fuel weight	32,000 lb	14,515 kg
Typical basic operating weight	27,150 lb	12,315 kg
Maximum fuel weight	20,000 lb	9,072 kg
Maximum payload	4,850 lb	2,200 kg

