

747 Freighter Performance Summary

StartupBoeing

		747-100SF	747-200SF	747-200F
Engines		JT9D-7A	JT9D-7Q	JT9D-7R4G2
SLST to FR temperature	lb to °F	46,950 to 80	53,000 to 86	54,750 to 86
Max takeoff weight	lb	734,000	820,000	833,000
Max landing weight	lb	585,000	630,000	630,000
Max zero fuel weight	lb	545,000	590,000	590,000
Tare weight	lb	11,300	11,300	11,300
Operating empty weight	lb	334,800	351,100	347,200
Fuel capacity	U.S. gal	48,445	53,985	53,985
Structural payload	lb	210,200	238,900	242,800
Design range	nmi	2,656	3,050	3,615
Takeoff field length at 86°F	ft	10,100	10,550	10,900
Initial cruise altitude — MTOW	ft	32,300	33,400	32,400
Landing field length — MLW	ft	6,350	6,910	6,930
Approach speed — MLW	kt	144	152	152
Block fuel				
2,000-nmi mission		115,638	124,107	111,680

- Typical mission rules
- Nominal performance level