

ISLANDER I700

Islander I700 is Islander Aerospace's middle of the market airliner based on the lengthened I600 fuselage. It can seat 220 in two class configuration or up to 275 in high-density layout. It is a longer range narrowbody that can open up new routes where a widebody is not very economical.

The I700 is designed to fill the gap between the I600 and the smallest widebodies available in the market. A long narrowbody design was chosen instead of a short widebody because it will have long-term weight and aerodynamic savings. This will also mean that high level of parts and crew commonality is available for those who operate the I600 and I500 family aircraft.

Two engine options will be available for the aircraft. The Pratt & Whitney PW2000G geared turbofans and the Harriett H180. Both feature the latest in efficient aircraft engines.

The fuselage is wider than any other single-aisle aircraft. There is an option for an extra-wide aisle configuration for faster turn around times. The composite structure also enables the aircraft to have larger windows for better in-flight experience.

The I700 will have larger wings derived from the I620, but without folding wingtips. The wings will have a unique gull shape to fit the large diameter engines with enough ground clearance. The wings will have very high aspect ratio for max efficiency. All this is possible because of the new composite materials that make the wing structure.

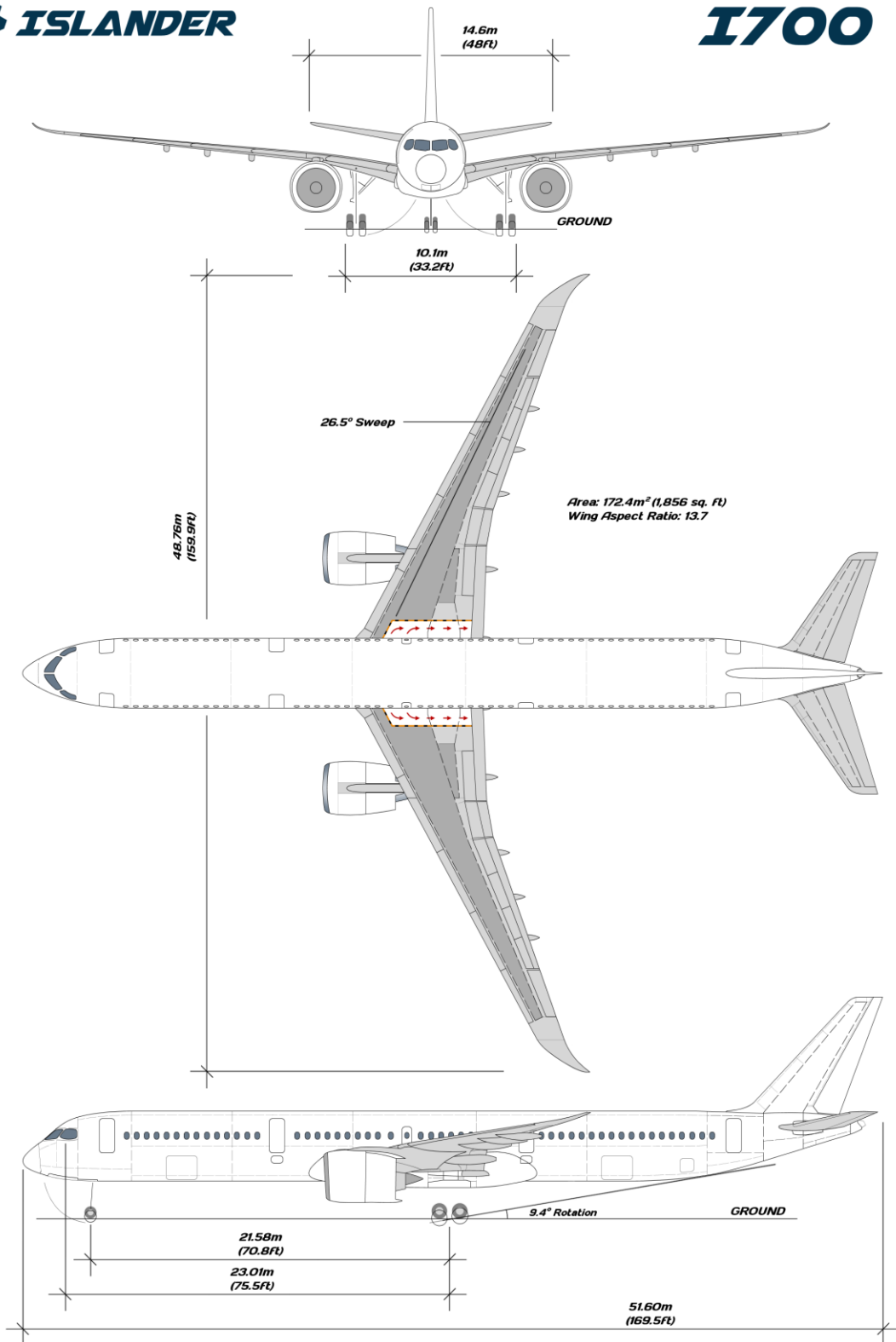
The I700 will share similar cockpit design as the I600 and I500 aircraft which has the most advanced fly-by-wire systems and software updates available.



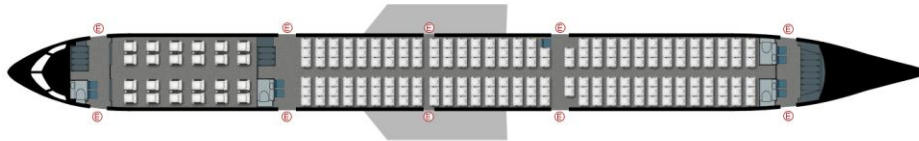
CREW		FUEL	
Cockpit	2	Volume	37,680L / 9,950 US gal
Cabin	6-9	Wing + center tank	34,080L / 9,000 US gal
PASSENGERS		Aux. tank	3,600L / 950 US gal
Maximum	274	Weight	30,521kg / 67,287 lb
1-class	249	PERFORMANCE	
2-class	221	Range	8,380km / 5,210mi / 4,520nm
CARGO		Speed max.	Mach 0.84
Volume	52.7m ³ / 1,860 cu ft	Speed cruise	Mach 0.78
ULD	13xLD3-45	Service ceiling	12,500m / 41,000 ft
OVERALL GEOMETRY		Takeoff run	2,200m / 7,220 ft
Length	51.60m / 170 ft	ENGINES	
Wingspan	48.76m / 160 ft	Harriett 180-A	
Fuselage width	4.04m / 13.2 ft	Thrust	180kN / 40,470 lbf
Cabin width	3.81m / 12.5 ft	Harriett 180-B	
Wheelbase	21.58m / 70.8 ft	Thrust	190kN / 42,710 lbf
WINGS		Pratt & Whitney PW 2127G	
Wing area	172.4m ² / 1,856 sq. ft	Thrust	195kN / 43,840 lbf
(exposed + center box)			
Aspect ratio	13.7		
Wing loading	655.74kg/m ² / 134.28 lb/sq. ft		
Sweep	26.5deg		
WEIGHTS			
MTOW	113,050kg / 249,220 lb		
MZFW	82,530kg / 181,930 lb		
OEW	58,780kg / 129,590 lb		



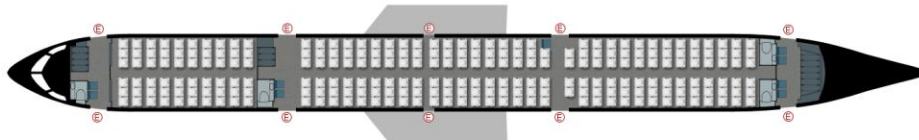
I700



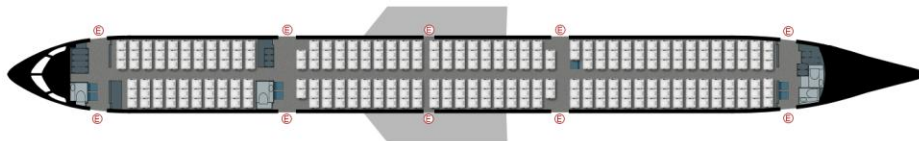
GENERAL DIMENSIONS



2-CLASS 24C + 189Y



1-CLASS 249Y



DENSE 274Y



CARGO 13X LD3-45

CONTAINER MODE: 46.8M³ (1,650 CU FT) + 5.9M³ (210 CU FT) BULK

TYPICAL CONFIGURATIONS