

STAVATTI™ SM-100E



ZERO-E NEXT GEN TRANSPORT

SM-100E ELECTRIC TRANSPORT

Performance & Specifications

FLYAWAY COST: \$40 Million Basic Equipped

AVAILABILITY: TBD

TYPE

Zero-Emission Electric Twin Engine Next Generation Utility Transport for Commercial Airlift.

ACCOMMODATION

Flight crew of 2 with up to 72 commercial passengers with 31 in Seat Pitch

POWERPLANT

Two (2) NeoThrust™ SRM-6000 Three Phase Switched Reluctance Motors (SRMs) each rated to 6,000 SHP driving a 13 ft 6 in diameter, 8-blade scimitar propeller @ 1,020 RPM. Energy provided by a 6,192 kWh Li-SiGr Battery System.

STRUCTURE

Cantilever three spar semi-monocoque aluminum foam metal sandwich wing and empennage with modular four element semi-monocoque aluminum foam metal sandwich fuselage.

PAYOUT CONFIGURATIONS

20 ft Sea-Land Containers	1	Economy Seats @ 31 in Pitch	72
LD-3 Containers	6	Max Payload	30,000 lbs
88" x 108" 463L Pallets	4		

EXTERNAL DIMENSIONS

Wingspan	100 ft 0 in
Length	86 ft 0 in
Height	21 ft 4 in
Wing Area	900 sq ft

INTERNAL DIMENSIONS

Cargo Hold Length	35 ft 0 in
Cargo Hold Max Width	11 ft 10 in
Cargo Hold Max Height	10 ft 0 in
Cargo Hold Floor Area	395 sq ft

WEIGHTS & CAPACITIES

Empty Weight	69,000 lbs	Wing Loading @ MTOW (lbs/sq ft)	111.1
Empty Operating Weight	70,000 lbs	Power Loading @ MTOW (lbs/shp)	8.3
Max Payload	30,000 lbs	Wing Loading @ TLW (lbs/sq ft)	111.1
Useful Load	31,000 lbs	Power Loading @ TLW (lbs/shp)	8.3
Typical Landing Weight (TLW)	100,000 lbs	Positive Load Limit @ MTOW	2.5
Max Take-Off Weight (MTOW)	100,000 lbs	Positive Load Limit @ TLW	3.2

LOADINGS

Max Level Speed @ SL	340 KTAS	Max Climb Rate @ SL	2,234 ft/min
Max Level Speed @ FL150	390 KTAS	Service Ceiling	>40,000 ft
Max Level Speed @ FL350	471 KTAS	Max Range @ FL150	341 nm
Cruise Speed @ FL150	266 KTAS	Max Range @ FL250	330 nm
Cruise Speed @ FL200	266 KTAS	Max Payload (30K lbs) Range @ FL150	341 nm
Cruise Speed @ FL250	235 KTAS	Max Payload (30K lbs) Range @ FL250	330 nm
Takeoff Speed @ MTOW, SL	129 KTAS	Ferry Range With Roll-On Battery	744 nm
Approach Speed @ TLW, SL	141 KTAS	Takeoff over 50 ft, MTOW	3,160 ft
Landing Stall Speed @ TLW, SL	119 KTAS	Landing over 50 ft, TLW	3,457 ft

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