

SunQuest Aviation Inc.

(561) 627-0037 Fax 627-0131

North County General Aviation Airport · West Palm Beach · Florida

Liberty XL2

SPEEDS

Normal Category

Max Ramp Weight.....	1653 lbs
Maximum Take-Off Weight.....	1653 lbs
Maneuvering Load Factor	+3.8 – 1.9g
Man. Load Factor - flaps extended.....	+2.0 – 0.0g
V _A (1653).....	100 KIAS
V _{NE}	162 KIAS
V _{NO}	125 KIAS
V _{FE}	80 KIAS
V _Y (flaps 0/)	80 KIAS
V _X (flaps 0/)	70 KIAS
V _R (flaps 20/)	55 KIAS
V _{S1}	51 KIAS
V _{S0}	45 KIAS
V _{GLIDE}	80 KIAS
Landing without power (FLAPS UP).....	70 KIAS
Flaps down	65 KIAS
Recommended Climb.....	80 – 90 KIAS
Minimum bailed landing speed	65 KIAS
Final Approach speed (Flaps up)	80 KIAS
Final Approach speed (Flaps 30)	70 KIAS
Final Approach speed (Short Field - Flaps 30).....	65 KIAS
Max demonstrated X-wind component.....	15 KTS

Engine (Continental).....	IOF-240-C
Rated at (2800 RPM)	125 B.H.P.
Oil Capacity (max).....	6 (5 ¼) qts
Oil Capacity (min).....	4 qts
Total Fuel Capacity (1 tank)	29.5gal
Total Usable Fuel	28.0gal
Useful Load	481lbs
-with full fuel.....	312lbs
Center of Gravity Range (1653 lbs).....	" 83.50~86.75 "
(1350 lbs).....	" 82.20~86.75 "

WEIGHT & BALANCE	(lbs) WEIGHT	(inches) ARM	(in·lbs) MOMENT
Basic Empty Weight (N513XL)	1196.0		98359.04
Basic Empty Weight (N514XL)	1203.0		99560.28
Pilot & Passenger		79.27	
Fuel (Max 29.5 gal - 177 lbs)		102.29	
Baggage Area 1 (Max Total 100 lbs)		120.50	

Maneuvers	XL2
Normal Category	Chandelles, Lazy 8s, Steep Turns, and Stalls no Whip Stalls.