

GENERAL SPECIFICATIONS

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GENERAL SPECIFICATIONS

PERFORMANCE

Published figures are for Standard PA-34* airplanes flown at gross weight under standard condition at sea level unless otherwise stated. Performance for a specific airplane may vary from published figures depending upon the equipment installed, the condition of engines, airplane and equipment, atmospheric conditions and piloting technique.

Gross Weight (pounds)	4000	4200
Take-off Run (ft) (short field effort, flaps 25)	750	800
Take-off Distance Over 50 ft Barrier (ft) (short field effort, flaps 25)	1140	1235
Minimum Controllable Single Engine Speed (mph)	80	80
Best Rate of Climb Speed (mph) (knots)	105 (91.5)	105 (91.5)
Best Rate of Climb (ft per min)	1460	1360
Best Angle of Climb Speed (mph) (knots)	90 (78)	90 (78)
Best Single Engine Rate of Climb Speed (mph) (knots)	105 (91.5)	105 (91.5)
Single Engine Rate of Climb @ S.L. (ft per min)	230	190
Service Ceiling (ft)	18,800	17,900
Absolute Ceiling (ft)	20,000	19,400
Single Engine Service Ceiling (50 fpm) (left engine out) (ft)**	5200	3650
Single Engine Absolute Ceiling (left engine out) (ft)	6600	5000
Top Speed (mph) (knots)	196 (170)	195.3 (169.8)
Cruising Speed (75% power at sea level) (mph) (knots)	173 (150)	171.6 (149.2)
Cruising Speed (75% power at 6000) (mph) (knots)	187 (162)	186.3 (162)
Optimum Cruising Speed (65% power at 9000) (mph) (knots)	185 (160)	183.4 (159.5)
Stalling Speed (gear and flaps down) (power off) (mph) (knots)	67 (58)	69 (60)
Stalling Speed (gear down and flaps up) (power off) (mph) (knots)	73 (63.5)	76 (66)
Landing Roll (flaps down) (ft) (short field)	705***	—
Landing Over 50 ft Barrier (flaps down) (ft) (short field)	1335***	—
Fuel Consumption (75% power) (gph) (both engines)	20.6	20.6
Fuel Consumption (65% power) (gph) (both engines)	18.3	18.3
Cruising Range (75% power at 6000 ft) (mi)	804	804
Cruising Range (65% power at 9000 ft) (mi)	885	885

*200 BHP, Counter-Rotating Engines, 4200 lb. G.W., Maximum Take-off Weight
4000 lb. G.W., Maximum Landing Weight

**5000 Ft. Single Engine Service Ceiling Occurs at 4030 Pounds Gross Weight.

***This value applies only for the conditions stated on the Landing Distance vs Density Altitude Chart.

GENERAL SPECIFICATIONS

REVISED: May 30, 1975

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WEIGHTS

Gross Weight (lbs) Max. Take-off	4200
Max. Landing	4000
Empty Weight (Standard) (lbs)	2625*
USEFUL LOAD (Standard) (lbs)	1575*

*These weights are approximate

POWER PLANT

Right Engine - Lycoming	LIO-360-C1E6
Left Engine - Lycoming	IO-360-C1E6
Rated Horsepower	200
Rated Speed (rpm)	2700
Bore (in.)	5.125
Stroke (in.)	4.375
Displacement (cubic in.)	361.0
Compression Ratio	8.7:1
Dry Weight (lbs)	350.0

FUEL AND OIL

Fuel Capacity (U.S. gal)	98
Unusable fuel	5
Fuel, Aviation Grade (minimum octane)	100/130
Oil Capacity (qts) (each engine)	8

BAGGAGE AREA

Maximum Baggage (lbs) Forward Compartment	100
Maximum Baggage (lbs) Rear Compartment	100
Baggage Space (cubic ft) Forward Compartment	15.3
Baggage Space (cubic ft) Rear Compartment	20
Baggage Door Size (in.) Forward Compartment	24 x 21

DIMENSIONS

Wing Span (ft)	38.88
Wing Area (sq ft)	208.7
Length (ft)	28.5
Height (ft)	9.9
Wing Loading (lbs per sq ft)	20.1
Power Loading (lbs per hp)	10.5
Propeller Diameter (in.)	76

LANDING GEAR

Wheel Base (ft)		7.0
Wheel Tread (ft)		11.1
Tire Pressure (psi)	Nose	31
	Main	50
Tire Size	Nose (six-ply rating)	6.00 x 6
	Main (eight-ply rating)	6.00 x 6