Piper Aircraft Corporation

Cherokee Six 260/300 PA 32-260/300

Specifications

	Cherokee Six 260	Cherokee Six 300
ENGINE (6 Cylinder)		
Manufacturer	Lycoming	Lycoming
Model	O-540-E4B5	IO-540-K1G5D
Rating (HP and RPM)	260 @ 2700	300 @ 2700
Recommended TBO (hrs.)	2000	2000
WEIGHTS		
Gross Weight (lbs./kg)	3400/1542	3400/1542
Standard Empty Weight (lbs./kg) (with unusable fuel, full oil and operating fluids)	1779/806.8	1846/837.2
Useful Load (Standard Airplane) (lbs./kg)	1621/735	1554/705
WING AREA AND LOADINGS		
Wing Area ($ft.^2$//m^2)	174.5/53.22	174.5/53.22
Wing Loading (lbs./$ft.^2$)/(kg/m^2)	19.5/95.22	19.5/95.22
Power Loading (lbs./hp)/(kg/hp)	13.1/5.94	11.3/5.12
BAGGAGE		
Volume ($ft.^3$/m^3)		
Forward Compartment	8/.22	8/.22
Aft Compartment	17.3/.484	17.3/.484
Capacity (lbs./kg)		
Forward Compartment	100/45.35	100/45.35
Aft Compartment	100/45.35	100/45.35
DIMENSIONS		
Wing Span (ft./m)	32.8/10	32.8/10
Length (ft./m)	27.7/8.45	27.7/8.45
Height (ft./m)	8.2/2.5	8.2/2.5
Cabin Length (in./cm) (instrument panel to rear bulkhead)	125/317.5	125/317.5
Cabin Width (in./cm)	49/124.5	49/124.5
Cabin Height (in./cm)	49/124.5	49/124.5
Cabin Volume ($ft.^3$/m^3) (including luggage area)	195.3/5.47	195.3/5.47
Headroom (seat to ceiling)		
Front Seats (in./cm)	36/91.4	36/91.4
Middle Seats (in./cm)	36/91.4	36/91.4
Rear Seats (in./cm)	35/88.9	35/88.9
Forward Baggage Door Size (in./cm)	(18/45.7) x (24/60.96)	(18/45.7) x (24/60.96)
Aft Baggage/Utility Door Size (in./cm)	(20/50.8) x (28/71.1)	(20/50.8) x (28/71.1)
Foreword Cabin Door Size (in./cm)	(35/88.9) x (36/91.4)	(35/88.9) x (36/91.4)
Aft Cabin Door Size (in./cm)	(33/83.8) x (29/73.7)	(33/83.8) x (29/73.7)
Wheel Base (ft./m)	7.8/2.38	7.8/2.38
Wheel Tread (ft./m)	10.6/3.23	10.6/3.23
FUEL CAPACITY		
Total Capacity (gal./L)	84/317.94	84/317.94
Usable Fuel (gal./L)	83.6/316.43	83.6/316.43
OIL CAPACITY (qts./L)	12/11.35	12/11.35

Performance

	Cherokee Six 260		Cherokee Six 300	
MAXIMUM SPEED AT GROSS WEIGHT (kts.)/(km/h)				
2700 rpm at sea level	148/274		156/289	
CRUISING SPEEDS AT GROSS WEIGHT				
Altitude cruise speeds	Best Power		Best Power	Best Economy
(TAS) (optimum alt.)				
75% power (kts./kmh)	137/254		152/282	148/274
65% power (kts./kmh)	129/239		145/269	141/261
55% power (kts./kmh)			134/248	129/239
STALL SPEED (CAS)				
Flaps Down Full 40° (kts./kmh)	55/102		55/102	
Flaps Up (kts./kmh)	62/115		62/115	
CRUISE RANGE				
(Cruising range includes 45 minute fuel reserve at maximum, range power plus allowance for fuel used during taxi, take-off, climb at MCP, cruise at optimum altitude and stated mixture plus descent)				
	Best Economy		Best Power	Best Economy
75% power (nm/km)	690/1279		595/1103	652/1208
65% power (nm/km)	720/1334		625/1158	700/1297
55% power (nm/km)			640/1186	730/1353
FUEL CONSUMPTION (gph/Lph)	Best Power	Best Economy	Best Power	Best Economy
75% power	18.5/70	14/52.9	18/68.13	16/60.6
65% power	15.2/57.5	12.2/46.1	16.1/60.9	13.8/52.2
55% power	12.8/48.4	10.4/39.3	14.2/53.7	11.9/45.0
SEAT MILES PER GALLON (nm/km)	Best Power		Best Power	Best Economy
75% power	43.2/80		50.7/94	55.5/103
65% power	49.8/92		54.0/100	61.3/113.6
55% power	54/100		56.6/105	65.0/120.4
RATE OF CLIMB (At Sea Level and Gross Wt.)				
Full Throttle (fpm/mpm)	775/236		1050/320	
SERVICE CEILING (50 fpm) (ft./m)	12,800/3901		16,250/4953	
ABSOLUTE CEILING (ft./m)	14,750/4496		18,000/5486	
TAKE-OFF DISTANCE				
(Sea Level, zero wind, standard temperature)				
Ground Run (ft./m)	1200/366		900/274	
Total over 50 ft. obstacle (ft./m)	1800/549		1350/412	
LANDING DISTANCE				
(Sea Level, zero wind, standard temperature)				
Ground Roll (ft./m)	640/195		630/192	
Total over 50 ft. obstacle (ft./m)	1000/305		1000/305	