|  |  |
| --- | --- |
| **Weights** |  |
| Empty Weight | Empty CG | Empty Moment | Useful Load |
| 1571.94 | 87.25 | 137151.76 | 978.06 |



|  |  |  |
| --- | --- | --- |
|  | Normal | Utility |
| Max Takeoff Weight | 2550 lbs | 2130 lbs |
| Max Landing Weight | 2550 lbs | 2130 lbs |
| Max Baggage Weight | 200 lbs. | empty |
|  |  |  |

**Powerplant**

Engine: Lycoming O-360, 180 BHP @ 2700 RPM. 4 Cylinders, Direct Drive, horizontally opposed, air cooled.

|  |  |  |
| --- | --- | --- |
| Oil: | Full | 8 qts. |
|  | Min for local flight | 6 qts. |
|  | Min for x-country | 7 qts. |
|  | Grade and type | Aeroshell 15W50 |

# Fuel System

Fuel: Approved Grades 100LL (blue)

Total Fuel 50 gal.

Total Usable Fuel 48 gal.

 Usable Fuel (Filled to Tab) 34 gal.

Tire Inflation: Mains. 24 PSI

 Nose 18 PSI

# Speeds

**BEST GLIDE SPEED 76 KIAS**

Stall in landing configuration Vso 49 KIAS

Stall in cruise configuration Vs1 55 KIAS

Rotation speed Vr 55 KIAS

Best angle of climb speed Vx 64 KIAS

Best rate of climb speed Vy 76 KIAS

Maneuvering speed Va.

 2550 lbs. 113 KIAS

 1634 lbs. 89 KIAS

Flaps extended Vfe 102 KIAS

Max. structural cruising speed Vno. 125 KIAS

Enroute climb speed 87 KIAS

Approach Speed 75-66 KIAS

Never exceed speed Vne 154 KIAS

Max Demonstrated Crosswind Component 17 knots