

PILATUS PC-6B Turbo-Porter Model Guide

The PILATUS PC-6B Turbo-Porter is a single-engine turboprop utility airplane. The PC-6 family is listed with up to 11 passengers, up to 870 nm range, up to 115 kt cruise and up to 25000 ft ceiling (family maxima, not this variant). The PC-6/B2-H4 manual used here lists a PT6A-27 engine, a 2800 kg maximum takeoff weight and Normal category certification.

KEY TAKEAWAYS

- Weights per the PC-6/B2-H4 manual: takeoff 2800 kg, landing 2660 kg, zero fuel 2400 kg. Maximum weight in the cabin is 1000 kg.
- Power is a PT6A-27 turboprop with a Hartzell propeller. Usable fuel is 170 US gal (644 litres), and Jet A, Jet A-1 and Jet B are approved.
- Normal category only: no acrobatics or spins, and no flight into icing. Never-exceed speed is 151 kt IAS; the flaps-extended limit is 95 kt.
- Ask to see records for the wing-fitting inspection at Frames 3 and 4 (visual plus eddy current) and for the wheel and brake configuration.

WEIGHTS, LOADING AND LIMITS

The PC-6/B2-H4 manual gives a maximum ramp weight of 2810 kg and a maximum takeoff weight of 2800 kg. At 2800 kg the CG range is 32% to 38% (3608 to 3722 mm). Maximum floor load is 488 kg per sq. m, and each trap door is limited to 150 kg. Load factors are +3.58 g and -1.43 g with flaps up. Maximum operating altitude is 25,000 ft.

ENGINE AND PROPELLER LIMITS

The PT6A-27 is limited to 47.3 psig torque, 725 °C ITT, 101.5% Ng and 2000 RPM Np at takeoff and maximum continuous power. Normal oil pressure is 80 to 100 psi, and below 40 psi is unsafe. Reverse power must not exceed one minute. Propeller de-icing must be OFF when the propeller is not rotating.

MAINTENANCE POINTS TO CHECK

The PC-6 Maintenance Manual (Revision 30, Oct 30/20) has an Airworthiness Limitations chapter. It also has a fuselage wing-fitting inspection at Frame 3 and Frame 4. That inspection is visual plus eddy current, needs the wings removed, and allows no crack indications. A Beringer wheel and brake STC exists for the PC-6 Turbo Porter; confirm whether it is fitted.

SPECIFICATIONS

Fuel Usable Capacity Gal	170
Fuel Usable Capacity Lbs	1145
Max Operating Altitude Ft	25000
Main Tire Pressure Standard Psi	49
Main Tire Pressure Low Pressure Psi	20
Tail Tire Pressure Psi	47

V-SPEEDS

Vne Kts	151
Vc Kts	119
Va Kts	119
Vfe Kts	95

WEIGHT & BALANCE

Max Ramp Weight Kg	2810
Max Takeoff Weight Kg	2800
Max Landing Weight Kg	2660
Max Zero Fuel Weight Kg	2400
Max Cabin Weight Kg	1000
Max Floor Load Kg Per Sq M	488
Max Trap Door Load Kg	150

SAFETY NOTES

- The PC-6/B2-H4 manual supplied is for familiarization only. Operate from the approved Airplane Flight Manual for the specific serial number.
- Do not reverse in flight. Positioning the power lever below the idle stop in flight is prohibited and may cause loss of control or engine overspeed.
- Flight into predicted or actual icing is not approved. Operation in falling snow is not approved unless snow vanes are installed.