

TYPE CERTIFICATE DATA SHEET № TL 0054

PC-12

Type Certificate Holder:

Pilatus Aircraft Ltd.
P.O. Box 992
6371 Stans
Switzerland

Models:

PC-12/47E

Issue 1, 26 June 2012

This Data Sheet which is integral part of Type Certificate № TL 0054 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was issued meet(s) the airworthiness requirements and environmental protection requirements, stated in Certification basis mentioned in this Data Sheet.

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SECTION I: Model PC-12/47E**A. General**

1. **Airworthiness Category:** Normal
2. **SAAU Certification Application Date:** 27 December 2010
3. **SAAU Type Certification Date:** 26 June 2012

B. Certification Basis**1. SAAU Certification Basis:**

- 1.1. **Airworthiness Requirements:** AR-23 Airworthiness Standards for Civil Light Aeroplanes

Eligible S/N: S/N 545 and S/N 1001 and up

- 1.2. **SAAU Equivalent Safety Findings:**
- | | |
|--|---|
| AR 23.221(a)(2) | Spin resistance Equivalent safety findings (ref. SAAU CRI F-1); |
| AR Д23.F.8.2.2.4,
Д23.F.8.2.2.5,
Д23.F.8.2.2.6 | Flight and Navigation Instruments(ref. SAAU CRI A-3); |
| AR Д23.F.8.2.2.13 | Flight and Navigation Instruments(ref. SAAU CRI A-4); |
| AR Д23.F.8.7.3.5.4 | Crew cockpit layout (ref. SAAU CRI A-8); |
| AR S23F:
- 8.8.3.1.7.;
- 8.8.3.3. | Powerplant enunciators and indicators (ref. SAAU CRI E-3) |

C. Technical Characteristics and Operational Limitations

1. **Type Design Definition:** Pilatus Doc. 500.00.12.020
2. **Description:** The PC-12/47E is a large single-engine turboprop multipurpose aircraft designed to perform a wide range of missions. Design features include:
- A pressurized, large volume cabin quickly convertible from all-passenger to all-cargo or a combination of passenger/cargo configurations.
 - Retractable landing gear with trailing-link main landing gear capable of grass and unprepared field operations.
 - Complete icing protection for flight into known icing conditions.



3. Dimensions:

Main Wing Span: 16'280 mm (53 ft 5 in)
 Length: 14'408 mm (47 ft 3 in)
 Height: 4'260 mm (14 ft 0 in)
 Total Wing Area: 25.81 m² (277.8 ft²)

4. Engines:

Model: 1 Pratt & Whitney Canada (PWC) PT6A-67P
 turboprop engine, flat rated at 1200 shp for
 takeoff.

SAAU engine certification status: SAAU TC № TD 0053

5. Engine Limits:

Operating Conditions	Shaft (shp.)	N1 Gas Generator Speed (%)	Torque PSI [ft-lbs] (kgm)	Prop. shaft Speed (r.p.m.)	Maximum Permissible Interstage Temperature (°C)
Takeoff	1200	104	44.34 [3708] (512.7)	1700	850
Max. continuous Max. climb	1200	104	44.34 [3708] (512.7)	1700	820
Max. cruise	1000	104	36.95 [3090] (427.2)	1700	820
Normal Climb Normal Cruise	As per Aircraft Flight Manual charts				
Starting Limits (5 sec.)	-	-	-	-	1000
Transient (20 sec.)	-	104	61.00 [5100] (705.1)	1870	870

Note: 100% Gas Generator Speed = 37'468 RPM

Oil Temperature:

Starting: - 40°C (min.)
 Idle: - 40°C ÷ 110°C
 Transient: - 40°C ÷ 110°C
 Take-off: +10°C ÷ 110°C
 Max Continuous: +10°C ÷ 105°C
 Max. Reverse: +10°C ÷ 105°C



