

U.S. DEPARTMENT OF TRANSPORTATION  FEDERAL AVIATION ADMINISTRATION  TYPE CERTIFICATE DATA SHEET E00068EN	TCDS NUMBER E00068EN  REVISION: 4 DATE: April 1, 2015  PRATT & WHITNEY CANADA  MODEL:  PT6C-67D, -67C, -67E
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Engines of models described herein conforming with this data sheet (which is part of Type Certificate Number E00068EN and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations, provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

TYPE CERTIFICATE (TC) HOLDER: Pratt & Whitney Canada Inc.  
 1000 Marie-Victorin  
 Longueuil, Quebec  
 Canada J4G 1A1

I. MODELS	PT6C-67D	PT6C-67C	PT6C-67E				
TYPE	Twin-spool free turbine turboshaft engine incorporating 4 axial stages and a single stage centrifugal compressor driven by a single stage uncooled turbine, reverse flow annular combustor, and a two stage shrouded power turbine.						
RATINGS	<b>SHAFT HORSEPOWER SHP (KW) SEE NOTES 4 and 5 for rating conditions</b>						
30 sec. OEI	---	---	2067(1541)				
2 min. OEI	---	---	1907(1422)				
30 min. OEI	---	---	---				
2 1/2 min. OEI	---	1872(1396)	---				
Continuous OEI	---	1679(1252)	1805(1347)				
30 Min Power	---	---	1774(1324)				
Take-off (5 min)	1680(1253)	1679(1252)	1774(1324)				
Max. Continuous	1550(1156)	1531(1142)	1645(1227)				
FUEL TYPE	Fuel conforming to the current PWC Specification No. CPW 204 and later revisions. For further details refer to the applicable Maintenance Manual for each model (reference NOTE 13 for Maintenance Manual part number).						
OIL TYPE	Synthetic type conforming to the current PWA Specification Number PWA 521 Type II. For approved brands refer to the applicable Maintenance Manual for each model (reference NOTE 13 for Maintenance Manual part number). Mixing of brands is not permitted.						
EQUIPMENT/ COMPONENTS	Fuel management module, including fuel pump, electronic engine control (EEC) unit, fuel control, alternator and ignition system without power source, are included as standard equipment as per the approved Parts List. Required equipment also includes a chip detector, or other metallic debris-detecting device to be approved by Transport Canada. For additional information, refer to Installation Manual. For output and accessory drive specifications, principal dimensions, weight and center of gravity location, refer to Installation Manual.						



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**LEGEND: "-" INDICATES "SAME AS PRECEDING MODEL"**  
 "----" NOT APPLICABLE  
**NOTICE: SIGNIFICANT CHANGES ARE BLACK-LINED IN THE LEFT MARGIN.**

**CERTIFICATION BASIS** For PT6C-67D and PT6C-67C, Title 14 of the Code of Federal Regulations (14 CFR Part 33) effective February 1, 1965, as amended by 33-1 through 33-20 .  
 For PT6C-67E, 14 CFR Part 33 effective February 1965, as amended by 33-1 through 33-30 and Special Condition:33-010-SC: for 30-minutes all engines operating (AEO) power rating.  
 Type Certificate E00068EN

MODEL	APPLICATION DATE	ISSUED/REVISED
PT6C-67C	MARCH 28, 1998	DECEMBER 5, 2003/August 10, 2005
PT6C-67D	APRIL 20, 2001	AUGUST 14, 2002
PT6C-67E	JULY 10, 2008	August 20, 2012

**IMPORT REQUIREMENTS** To be considered eligible for installation on U.S. - registered aircraft, each engine to be exported to the United States shall be accompanied by a certificate of airworthiness for export or certifying statement endorsed by the exporting cognizant civil airworthiness authority and containing the following language:

- (1) This engine conforms to its United States type design (Type Certificate Number E00068EN) and is in a condition for safe operation.
- (2) This engine has been subjected by the manufacturer to a final operational check and is in a proper state of airworthiness.

Reference FAR Section 21.500, which provides for the airworthiness acceptance of aircraft engines or propellers manufactured outside of the U.S. and for which a U.S. type certificate has been issued.

Additional guidance is contained in FAA Advisory Circular 21-23, Airworthiness Certification of Civil Aircraft, Engines, Propellers and Related Products, Imported into the United States.

**NOTES**

I. MODELS	PT6C-67D	PT6C-67C	PT6C-67E				
<b>NOTE 1.</b>	<b>ENGINE ROTOR SPEED LIMITS (RPM)</b>						
Gas Generator Speed							
Maximum							
30 sec OEI	---	---	41600				
2 min OEI	---	---	40500				
30 min OEI	---	---	---				
2 1/2 min OEI	---	40,500	---				
Continuous OEI	---	39,100	39500				
30 min power	---	---	39200				
Take-off (5 min)	39,100	--	39200				
Maximum Continuous	38,100	38,200	38500				
Transient (10 sec)*	40,500	40,900	39500				
Starting (2 sec. max.)	---	---	---				

\*20 sec for PT6C-67E

**Output Shaft Speed Maximum**

30 sec OEI	---	---	21000				
2 min OEI	---	---	21000				
30 min OEI	---	---	---				
2 1/2 min OEI	---	21,420	---				
Continuous OEI	---	21,420	21000				
30 min Power	---	---	22470				
Take-off (5 min)	21,520	21,420	22470				
Maximum Continuous	21,200	21,420	22470				
Transient (10 sec)*	23,310	--	23470				
Starting (2 sec. max.)	---	---	---				

\*Refer to Installation Manual

\*20 sec for PT6C-67E

<b>I. MODELS (Cont.)</b>	<b>PT6C-67D</b>	<b>PT6C-67C</b>	<b>PT6C-67E</b>				
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<b>NOTE 2.</b>	<b>ENGINE INTERTURBINE TEMPERATURE LIMITS (°C)</b>						
30 sec. OEI	---	---	915				
2 min OEI	---	---	865				
30 min OEI	---	---	---				
2 1/2 min OEI	---	835	---				
Continuous OEI	---	775	820				
30 min Power			815				
Take-off (5 min)	810	775	815				
Maximum Continuous	775	735	775				
Transient (10 sec)	835	847	925				
Starting (2 sec. max.)	1100	--	---				

\*Refer to Installation Manual

<b>NOTE 3.</b>	<b>MAXIMUM TORQUE LIMITS FT-LB (N-M)</b>						
30 sec OEI	---	---	498(675)				
2 min OEI	---	---	443(600)				
30 min OEI	---	---	---				
2 1/2 min OEI	---	400(542)	---				
Continuous OEI	---	350(475)	387(525)				
30 min Power	---	---	325(441)				
Take-off (5 min)	292(396)	283(384)	325(441)				
Maximum Continuous	292(396)	268(363)	302(410)				
Transient (10 sec)*	400(542)	440(597)	400(543)				
Starting (2 sec. max.)	---	---	---				

\*Refer to Installation Manual

\*20 sec for PT6C-67E

**NOTE 4.** The engine ratings are based on dry sea level static ICAO standard atmospheric conditions, with no external accessory loads and no airbled. The quoted ratings are obtainable on a test stand with the specified fuel and oil, and with the reference intake and exhaust ducts specified in the Installation Manual.

**NOTE 5.** Mechanical limits controlled by engine software enable the management of rotorcraft limitations within the certified engine thermal ratings.

**NOTE 6.** **ENGINE AIRBLEED LIMITS**  
 Max. external: 5.25% of inlet airflow.  
 Max. during start: Nil.

**NOTE 7.** **ENGINE OIL PRESSURE/TEMPERATURE LIMITS AND TANK CAPACITY**

Pressure Refer to Installation Manual.

Temperature Refer to Installation Manual  
 Starting Minimum: (PT6C-67D) -50°C  
 (PT6C-67C) -50°C  
 (PT6C-67E) -50°C

Tank Capacity Totals: Liters 8/U.S. Gallons 2.11

**NOTE 8.**

ENGINE FUEL LIMITS

Inlet Head See Installation Manual for required inlet pressures and lift capability.  
 Temperature Refer to Installation Manual.  
 Viscosity Maximum cold starting: 12 centistokes.

**NOTE 9.**

The uninstalled engine meets FAA requirements for operating in icing conditions. These engines also meet the requirements of Canadian Airworthiness Manual 533.68 for operation in icing conditions as defined in Canadian Airworthiness Manual 529, Appendix C. The Airframe Manufacturer must give appropriate consideration to installation effects as stated in the Installation Manual.

**NOTE 10.**

The software for the Electronic Engine Control (EEC) has been developed and tested in accordance with the provisions of "Flight Critical" category (Level A) of RTCA/DO178B for the PT6C-67D, PT6C-67C and the PT6C-67E.

**NOTE 11.**

Lightning protection requirements and electromagnetic interference emitted by the electronic engine control system, including cables, are specified in the Installation Manual.

**NOTE 12.**

Certain engine parts are life limited. For PT6C-67C, -67D & -67E engines, these life limits are listed in PWC maintenance manual P/N 3056642 for the PT6C-67D, P/N 3045332 for PT6C-67C and P/N 3072872 for the PT6C-67E.

APPROVED PUBLICATIONS

**NOTE 13**

1. Transport Canada approved PT6C-67D, PT6-67C & PT6C-67E Installation Manuals.
2. Transport Canada approved PT6C-67D, PT6C-67C & PT6C-67E Interface Control Document.
3. Transport Canada approved Parts List for the first production engine.

<u>Model</u>	<u>Parts List</u>
PT6C-67D	A3055830-01
PT6C-67C	A3045379 change H
PT6C-67E	A3073783-01change H

4. Transport Canada approved Limitations Section of the following Maintenance Manuals.

<u>Model</u>	<u>Maintenance Manual P/N</u>	<u>Overhaul Manual P/N</u>
PT6C-67D	3056642	3056643
PT6C-67C	3045332	3045333
PT6C-67E	3072872	3072873

**NOTE 14.**

The PT6C-67C, -67D & -67E EECs have not been fire tested and therefore, must not be mounted in a designated fire zone.

**NOTE 15.**

Service Bulletins, structural repair manuals, vendor manuals, aircraft flight manuals, and overhaul and maintenance manuals, which contain a statement that the document is Transport Canada approved, are accepted by the FAA and are considered FAA approved. These approvals pertain to the type design only.

**NOTE 16.**

Note removed.

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