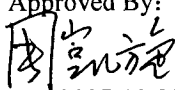


中国民用航空总局
CIVIL AVIATION ADMINISTRATION OF CHINA

编号/No.: VTC0197E
修订/Rev.: 0
型号/Type: PT6A-11AG
批准人/ Approved By:

日期/Date: 2007-10-30

型号认可证数据单编号: VTC0197E
Validation Type Certificate Data Sheet No. VTC0197E

本数据单是型号认可证（编号: VTC0197E）的一部分，它规定了一些条件和限制，在此条件和限制下，获得本型号认可证的产品满足下述“认可审定基础”段落给出的适航要求。

This data sheet which is a part of Validation Type Certificate (No. VTC0197E) prescribes conditions and limitations under which the product for which the Validation Type Certificate was issued meets the airworthiness requirements indicated in “Validation Basis” paragraph.

型号合格证持有人: Pratt&Whitney Canada Corp.
1000 Marie-Victorin Longueuil, Quebec
加拿大
Type Certificate Holder: Pratt&Whitney Canada Corp.
1000 Marie-Victorin Longueuil, Quebec
Canada

加拿大运输部 型号合格证E-13、数据单第10版，批准日期：1976年11月18日，颁布日期：2005年2月28日

Type Certificate E-13, Data Sheet Revision 10, Approved by Transport of Canada on 18 December.,
1976, Issued by Transport of Canada on 28 February, 2005

PT6A-11AG发动机，加拿大运输部于1979年批准，CAAC于2007年10月30日认可
PT6A-11AG Engine Approved 1979 by Transport of Canada, Validated 2007.10.30 by CAAC

Page No.	1	2	3	4	5	6	7	8	9	10
Revision No.	0	0	0	0	0	0	0	0	0	0

型号合格证持有人: Pratt&Whitney Canada Corp.
1000 Marie-Victorin Longueuil, Quebec
加拿大

Type Certificate Holder: Pratt&Whitney Canada Corp.
1000 Marie-Victorin Longueuil, Quebec
Canada

型号 自由涡轮, 涡轮螺旋桨发动机 PT6A-11AG
Type Free turbine turbo-prop PT6A-11AG

额定值 (见注 1)	等效 轴马力 H.P. (kW)	轴马力 H.P. (kW)	发动机 推力 lbs (N)	输出转速 RPM (max)	燃气 发生器转速 RPM (max)
最大连续 功率	580 (433)	550 (410)	75 (333)	2200	38100
起飞功率 (5 分钟)	580 (433)	550 (410)	75 (333)	2200	38100
最大反推 功率	-	475 (354)	-	2100	-

Ratings (See NOTE 1)	Equiv. Shaft H.P. (kW)	Shaft H.P. (kW)	Jet Thrust lbs (N)	Output RPM (max)	Gas Gen. RPM (max)
Maximum Continuous	580 (433)	550 (410)	75 (333)	2200	38100
Take-off (5 min)	580 (433)	550 (410)	75 (333)	2200	38100
Maximum Reverse	-	475 (354)	-	2100	-

限制	最大涡轮 进气温度 (T.I.T.) °C (F°)		额定功率下 最大进气 温度 (A.I.T.) °C (F°)	
最大连续	700	(1292)	32	(90)
起飞 (干)	700	(1292)	32	(90)
起动 (5 秒)	1090	(1994)	--	

Limitations		Maximum Turbine Inlet Temperature		Maximum Air Inlet Temperature for Rated Power	
		(T.I.T.)		(A.I.T.)	
		°C	(F°)	°C	(F°)
	Maximum Continuous	725	(1337)	22	(71)
	Take-off (-dry)	725	(1337)	22	(71)
	Starting (5 secs)	1090	(1994)	--	
引气	最大外部引气(%)	5.25			
	起动期间最大引气 (lb/min)	1.5			
Air Bleed	Maximum External (%)	5.25			
	Maximum During start (lb/min)	1.5			
燃油压力	见安装手册				
Fuel Pressure	Refer to Installation Manual.				
燃油温度				°C (°F)	
	燃油泵进口最高温度			57 (135)	
	燃油泵进口最低温度			-54 (-65)	
Fuel Temperature				°C (°F)	
	Maximum fuel pump inlet			57 (135)	
	Minimum inlet temperature			-54 (-65)	
燃油密度	海平面冷起动最大燃油密度 (centistokes)			12	
Fuel Viscosity	Maximum cold starting (centistokes)			12	
滑油压力				psig	
	在滑油温度为 60° -70°C (140-160°F)				
	燃气发生器转速 在 27000 rpm或以上 在27000 rpm以下			80-100 40 (min)	
Oil Pressure				psig	
	Oil temperature 60° -70°C (140-160°F)				
	Gas generator speed at or above 27000 rpm below 27000 rpm			80-100 40 (min)	

滑油温度		<u>°C</u>	<u>(°F)</u>
	最小	-40	(-40)
	最大连续	99	(210)
	最大 (5分钟)	104	(219)
Oil Temperature		<u>°C</u>	<u>(°F)</u>
	Minimum	-40	(-40)
	Maximum Continuous	99	(210)
	Maximum (5 mins.)	104	(219)
输出扭矩		<u>Nm.</u>	<u>ft-lb</u>
	最大 - 稳态	1619	1194
	瞬态	2034	1500
Output Torque		<u>Nm.</u>	<u>ft-lb</u>
	Maximum - steady state	1619	1194
	Transient	2034	1500
超转		rpm (max)	
	螺旋桨	2425	
	燃气发生器转速（10秒）：	38500	
Overspeeds		<u>rpm (max)</u>	
	Propeller		
	All models	2425	
	Gas Generator（10 sec）：	38500	
燃油牌号	按以下适用服务通报批准的燃油牌号使用		
SB 12144	PT6A-11AG		
Fuel Type	Refer to the applicable Service Bulletins, as follows, for the approved fuel types:		
SB 12144	PT6A-11AG		
滑油牌号	按以下适用服务通报批准的滑油牌号使用		
SB 12001	PT6A-11AG		

Oil Type Refer to the applicable Service Bulletins, as follows, for approved oil types:

SB 12001 PT6A-11AG

滑油容量	<u>Litres</u>	<u>Imperial gallons</u>	<u>U.S. gallons</u>
可用容量			
-正常飞行	5.68	1.25	1.5
-翻转	0.946	0.208	0.25
总容量	8.64	1.9	2.3

Oil Capacity	<u>Litres</u>	<u>Imperial gallons</u>	<u>U.S. gallons</u>
Usable			
-normal flight	5.68	1.25	1.5
-inverted	0.946	0.208	0.25
Total	8.64	1.9	2.3

设备 燃油泵，燃油控制组件，无动力源时的点火系统，螺旋桨调速器和燃油加温器作为标准设备被列于批准的部件清单中。对于附加的信息见安装手册。对于输出传动装置规范，附件传动装置，主要尺寸，重量和重心位置见安装手册

Equipment Fuel Pump, fuel control unit, ignition system without power source, propeller governor and fuel heater are included as standard equipment as shown in the Approved Parts List. For additional information refer to Installation Manual. For output drive specification, accessory drives, principal dimensions, weight and C.G. locations, refer to Installation Manual.

认可审定基础: CCAR33部现行有效版

审定基础 FAR 33 ,effective February 1,1965, and Amendments 33-1 to 33-5 inclusive.

型号合格审定日期

PT6A-11AG 10 January, 1979

Basis of Certification FAR 33 ,effective February 1,1965, and Amendments 33-1 to 33-5 inclusive.

Dates of application for Type Certification

PT6A-11AG 10 January, 1979

批准的出版物

1. DOT 批准的安装手册:
PT6A-11AG 1977年9月2日
2. DOT批准的部件列表如下:

<u>型号</u>	<u>部件列表</u>	<u>日期</u>
PT6A-11AG	2A3025600	1979年8月16日
3. 服务通报规定了批准的润滑油，涉及到本数据单滑油牌号部分
4. 服务通报规定了批准的燃油和添加剂，涉及到本数据单燃油牌号部分
- 4
- 5.SB 12102规定了PT6A-15AG转子部件的使用寿命
- 6.SB 12103规定了PT6A-15AG的翻修间隔期（TBO）和热端部件检查（HSI）周期
7. 维修手册:
PT6A-11AG 3030442
8. 翻修手册:
PT6A-11AG 3030443

Approved
Publications

- 1 DOT Approved Installation Manual for:
PT6A-11AG September 2 1979
- 2 DOT Approved Parts List number:

<u>Engine Model</u>	<u>Parts List</u>	<u>Date</u>
PT6A-11AG	2A3025600	16August 1979
- 3 SBs defining approved lubricating oils, refer to the Oil Type section of this data sheet.
4. SBs defining approved fuels and additives refer to the Fuel Type section of this data sheet.
5. SB 12102 defining Rotor Components Service Lives for the PT6A-11AG.
- 6.SB 12103 defining Operating Time Between Overhaul (TBO) and Hot Section Inspection (HSI) Frequency for the PT6A-11AG.

7. Maintenance Manual:

PT6A-11AG

3030442

8. Overhaul Manual:

PT6A-15AG

3030443

注 1

发动机额定值是基于静态海平面，干空气条件下的ICAO大气条件标准。安装了压气机进气滤网；无额外的附件载荷和引气。对于PT6A-11AG发动在没有使用进气管和使用总有效面积为477.5平方厘米（74平方英寸）的排气短管条件下，在使用规定燃油和滑油的情况下，引用的额定值均由试验验证进行了验证。

NOTE 1

The engine ratings are based on dry sea level static ICAO Standard Atmospheric Conditions. Compressor intake screen installed.No external accessory loads and no airbleed.The quoted ratings are obtainable on a test stand with the specified fuel and oil without intake duct and using exhaust stubs with a total final effective area of 477.5 sq.cm(74sq.inches),for the PT6A-11AG .

NOTE 2

当发动机在CCAR25部附录C规定的结冰条件下运行，进气系统按照P&WC安装手册规定对雪和冰粒进行惯性分离时，发动机满足适航要求。发动机还满足FAA关于盘完整性和转子叶片包容性要求，此外，没有要求附加外部保护设备。

结束

NOTE 2

The engine meets FAA requirements for operation in icing conditions as defined in FAR 25 Appendix C when the intake system conform with the P&WC Installation Manual. Instructions for inertial separation of snow and icing particles.The engine also meets FAA requirements of FAR33.27 for disc integrity and rotor blade containment and does not require external armouring.

end