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I. General

- 1. Type/Variants:** PW118, PW118A, PW119B, PW119C, PW120, PW120A, PW121, PW121A, PW123, PW123AF, PW123B, PW123C, PW123D, PW123E, PW124B, PW125B, PW126, PW126A, PW127, PW127B, PW127D, PW127E, PW127F, PW127G, PW127M
- 2. Type Certificate Holder:** Pratt and Whitney Canada Corp.
1000 Marie Victorin
Longueuil, Québec, J4G 1A1
Canada
- 3. Manufacturer:** Pratt and Whitney Canada
- 4. EASA Certification/JAA Validation Application Date:** 07 March 2007 for PW127M
- 5. Validation Reference Date:** 16 December 1983
- 6. EASA Certification Date:**

PW118 30 December 1986 DGAC-F Type Certificate M-IM 15	PW118A 21 April 1988 LBA Motor- Kennblatt Nr. 7028	PW119B 08 October 1993 LBA Motor- Kennblatt Nr. 7028	PW119C 07 June 1996 LBA Motor- Kennblatt Nr. 7028	PW120 06 September 1985 DGAC-F Type Certificate M-IM 15
PW120A 06 September 1985 DGAC-F Type Certificate M-IM 15	PW121 03 March 1988 DGAC-F Type Certificate M-IM 15	PW121A 07 December 1995 DGAC-F Type Certificate M-IM 15	PW123 12 November 1990 DGAC-F Type Certificate M-IM 15	PW123AF 27 October 1994 ⁽¹⁾ Aircraft TC ENAC A402 Bombardier CL-215- 6B11
PW123B 18 June 1993 LBA Motor- Kennblatt Nr. 7028	PW123C 22 December 1997 LBA Motor- Kennblatt Nr. 7028	PW123D 22 December 1997 LBA Motor- Kennblatt Nr. 7028	PW123E 22 March 1995 ⁽¹⁾ Aircraft TC EASA IM A.191 Bombardier DHC-8- 201/202/315	PW124B 31 August 1989 DGAC-F Type Certificate M-IM 15
PW125B 28 February 1992 DGAC-F Type Certificate M-IM 15	PW126 21 April 1988 LBA Motor- Kennblatt Nr. 7028	PW126A 30 November 1989 CAA-UK Letter 9/80/EZ5	PW127 06 November 1992 DGAC-F Type Certificate M-IM 15	PW127B 2 May 1995 CAA-UK Letter 9/80/PW100/C01/9A
PW127D 7 February 1994 CAA-UK Letter 9/80/C/402/11	PW127E 07 July 1995 DGAC-F Type Certificate M-IM 15	PW127F 13 January 1997 DGAC-F Type Certificate M-IM 15	PW127G 02 December 1999 ⁽¹⁾ Aircraft TC EASA A.186 EADS CASA C295	PW127M 20 December 2007

Except for PW127M, EASA Type-Certification for the above mentioned engine models is granted in accordance with the following Articles of EU Commission Regulation EC 1702/2003:

- Article 2 paragraph 3(a)(i) based on the respective DGAC France, LBA Germany and CAA United Kingdom validation letters issued following NAA approvals prior to 28 September 2003
- For models marked ⁽¹⁾ Article 2 paragraph 3(b) based on NAA approvals of aircrafts equipped with these engine models prior to 28 September 2003.

II. Certification Basis

1. **Transport Canada Certification Basis details:** see Transport Canada TCDS E-19.

2. EASA Certification Basis:

2.1 Airworthiness Standards:

For all variants, JAR-E Change 6 dated 28 August 1981 (based on BCAR, Section C, Issue 13)

Amended for the PW127 by:

- JAR-E change 8 AMJ 20X-1 Certification of Aircraft Propulsion Systems equipped with Electronic Controls

Amended for the PW121A, PW127E and PW127F by :

- Bird Strike and Ingestion: Additional Technical Conditions as defined in JAA INT/POL/E/02 Issue 1
- Rain and Hail: Additional Technical Conditions as defined in JAA INT/POL/E/01 Issue 2 and AIA Advisory Circular PC338-1
- JAR-E Change 8 AMJ 20X-1 Certification of Aircraft Propulsion Systems equipped with Electronic Controls

Amended for the PW127M by :

- Inclement Weather: CS-E 790 Ingestion of Rain and Hail (CS-E as issued by EASA Decision N°2003/9/RM, on October 24, 2003)
- Bird Strike and Ingestion: CS-E 800 Bird Strike and Ingestion (CS-E as issued by EASA Decision N°2003/9/RM, on October 24, 2003)
- JAR-E Change 8 AMJ 20X-1 Certification of Aircraft Propulsion Systems Equipped with Electronic Controls

2.2 Special Conditions:

None

2.3 Equivalent Safety Findings:

None

2.4 Deviations:

None

2.5 Environmental Protection Requirements:

For PW127M only: Fuel Venting: ICAO Annex 16, Volume II, Part II, (2nd Edition, July 1993), Amendment 5 dated 24th November 2005

III. Technical Characteristics

1. Type Design Definition:

Engine Model	Engine Assembly Drawing	Engine Model	Engine Assembly Drawing
PW118	3104700	PW123E	3038400
PW118A	3041200	PW124B	3041900
PW119B	3049700	PW125B	3035600
PW119C	3049700	PW126	3035600
PW120	3104500	PW126A	3035600
PW120A	3104500	PW127	3047600
PW121	3104500	PW127B	3048000
PW121A	3120200	PW127D	3040963
PW123	3038400	PW127E	3047600
PW123AF	3038400	PW127F	3047600
PW123B	3038400	PW127G	3045350
PW123C	3038400	PW127M	3073453
PW123D	3038400		

2. Description:

The PW100 series turboprop engines comprise a three spool turbomachine (including a free turbine), and a reduction gearbox

For all models, the engine control is made via a single channel Electronic Engine Control (EEC) unit, with a hydro-mechanical back-up

3. Equipment:

Approved equipment is defined in the applicable engine model approved Engine Parts List

4. Dimensions and Weight:

Engine Model	Overall Length (mm)	Overall Width (mm)	Dry Spec Weight (kg)
PW118	2046	635	390.5
PW118A	2046	635	392.8
PW119B	2046	635	411.4
PW119C	2046	635	411.4
PW120	2130	635	417.3
PW120A	2130	635	423.2
PW121	2130	635	423.2
PW121A	2130	635	434.0
PW123	2130	660	450.0
PW123AF	2130	660	450.0
PW123B	2130	660	450.0
PW123C	2130	660	450.0
PW123D	2130	660	450.0
PW123E	2130	660	450.0
PW124B	2130	679	480.8
PW125B	2130	679	480.8
PW126	2130	679	480.8
PW126A	2130	679	480.8
PW127	2130	679	480.8
PW127B	2130	679	480.8
PW127D	2130	679	480.8
PW127E	2130	679	480.8
PW127F	2130	679	480.8
PW127G	2130	679	484.4
PW127M	2130	679	481.7

5. Ratings:

See Notes 1 & 2.

Engine Model Ratings at Sea Level	Maximum Take-off Power – 5 min. (*)		Normal Take-off Power – 5 min. (*)		Maximum Continuous Power	
	Shaft Power (kW)	Maximum Air Temp for Rated Power (°C)	Shaft Power (kW)	Maximum Air Temp for Rated Power (°C)	Shaft Power (kW)	Maximum Air Temp for Rated Power (°C)
PW118	-	-	1342	33	1342	33
PW118A	-	-	1342	42	1342	42
PW119B	1625	31	1380	48	1380	48
PW119C	1625	36	1380	48	1380	53
PW120	1491	28	1342	28	1268	28
PW120A	1491	28	1342	28	1342	33
PW121	1603	26	1454	26	1454	28
PW121A	1640	25	1476	25	1417	30
PW123	1775	35	1598	35	1604	45
PW123AF	1775	35	-	-	1603	45
PW123B	1865	30	1687	30	1603	30
PW123C	1604	26	1454	26	1454	34
PW123D	1604	45	1454	45	1454	53
PW123E	1775	41	1598	41	1604	45
PW124B	1790	34	1611	34	1790	34
PW125B	1864	30	1678	30	1603	45
PW126 (**)	-	-	1648	28	1648	28
PW126A	1985	29	1787	29	1769	41
PW127	2051	32	1846	32	1864	41
PW127B	2051	30	1846	30	1864	41
PW127D	2051	33	1846	33	2051	33
PW127E	1790	45	1611	45	1790	45
PW127F	2051	35	1846	35	1864	44
PW127G	2178	35	1973	35	2178	35
PW127M	2051	39	1846	39	1864	48

(*) See Note 2

(**) PW126 Contingency Power Ratings: see Table below

Engine Model Ratings at Sea Level	Maximum Contingency Power (2 ½ min.)		Intermediate Contingency Power	
	Shaft Power (kW)	Maximum Air Temp for Rated Power (°C)	Shaft Power (kW)	Maximum Air Temp for Rated Power (°C)
PW126	1978	32	1766	39

6. Control System:

For all models, the fuel control is made via a single channel Electronic Engine Control (EEC) unit, with a hydro-mechanical back-up. The hardware and software configuration of this system and the associated engine fuel pump and hydro mechanical unit are controlled by the approved engine equipment list for each specific engine model and aircraft application.

7. Fluids

7.1 Fuel Type:

The approved fuels and additives must conform to the current P&WC specifications CPW 204 and later revisions. Maintenance Manual, Chapter 72-00-00

7.2 Oil Type

The approved oil types are defined in relevant Maintenance Manual, Chapter 72-00-00.

7.3 Oil Tank Capacity

Engine Model	Usable Oil Tank Capacity (liters)	Total Oil Tank Capacity (liters)	Engine Model	Usable Oil Tank Capacity (liters)	Total Oil Tank Capacity (liters)
PW118	3.8	17.7	PW123E	8.0	19.3
PW118A	3.8	17.7	PW124B	8.0	19.3
PW119B	3.8	17.7	PW125B	8.0	19.3
PW119C	3.8	17.7	PW126	8.0	19.3
PW120	3.8	17.7	PW126A	8.0	19.3
PW120A	3.8	17.7	PW127	8.0	19.3
PW121	3.8	17.7	PW127B	8.0	19.3
PW121A	3.8	17.7	PW127D	8.0	19.3
PW123	8.0	19.3	PW127E	8.0	19.3
PW123AF	8.0	19.3	PW127F	8.0	19.3
PW123B	8.0	19.3	PW127G	8.0	19.3
PW123C	8.0	19.3	PW127M	8.0	19.3
PW123D	8.0	19.3			

8. Aircraft Accessory Drives:

For accessory drives specifications, refer to the applicable engine model Installation Manual and Installation Drawing.

9. Maximum Permissible Air Bleed Extraction:

Maximum External (HP):

All models: 10% of inlet airflow up to a maximum of 15 Kg/min

Maximum External (LP):

For PW118, PW118A, PW120, PW120A, PW121 and PW121A:
8% of inlet airflow.

For PW119B, PW119C, PW123, PW123AF, PW123B, PW123C, PW123D, PW123E, PW124B, PW125B, PW126, PW126A, PW127, PW127B, PW127D, PW127E, PW127F, PW127G and PW127M:
10% of inlet airflow.

Maximum during start:

Bleed flow equivalent to that obtained from 0.5 cm diameter orifice at the engine bleed port

IV. Operational Limits:

See Notes 3 and 13

1. Temperature Limits:

1.1 Maximum Inter-Turbine Temperature (ITT):

Rating	Maximum Take-off (°C)	Normal Take-off (°C)	Maximum Continuous (°C)	Transient 20 secs (°C)	Transient 5 secs (°C)	Starting 5 secs (°C)
PW118	N/A	816	800	850	-	950
PW118A	N/A	816	800	850	-	950
PW119B	800	800	800	850	-	950
PW119C	800	800	800	850	-	950
PW120 (**)	816	785	800	850	-	950
PW120A (**)	816	785	800	850	-	950
PW121 (*) (**)	816	785	800	850	-	950
PW121A	816	791	800	850	-	950
PW123 (*)	800	765	800	840	-	950
PW123AF	800	-	800	840	-	950
PW123B (*)	800	765	800	840	-	950
PW123C (*)	800	770	800	840	-	950
PW123D (*)	800	770	800	840	-	950
PW123E (*)	800	765	800	840	-	950
PW124B (*)	800	765	800	840	-	950
PW125B (*)	800	765	800	840	-	950
PW126 (*)	N/A	760	760	840	-	950
PW126A (*)	800	765	800	840	-	950
PW127 (*)	800	765	800	840	-	950
PW127B (*)	800	773	800	840	-	950
PW127D (*)	800	750	800	840	-	950
PW127E (*)	800	765	800	840	-	950
PW127F (*)	800	765	800	840	-	950
PW127G (*)	800	765	800	840	-	950
PW127M (*)	800	765	800	840	-	950

(*) see Note 6

(**) see Note 8

1.2 Oil Temperature:

Refer to Installation Manual

1.3 Fuel Temperature:

Refer to Installation Manual

2. Maximum Permissible Rotor Speeds:

2.1 Maximum Output Shaft Speed:

Rating	Maximum Take-off (RPM)	Normal Take-off (RPM)	Maximum Continuous (RPM)	Transient 20 secs (RPM)	Transient 5 secs (RPM)	Starting 5 secs (RPM)
PW118		1313	1313	1430	-	-
PW118A		1313	1313	1430	-	-
PW119B	1339	1339	1339	1430	-	-
PW119C	1339	1339	1339	1430	-	-
PW120	1212	1212	1212	1320	1440	-
PW120A	1212	1212	1212	1320	1440	-
PW121	1212	1212	1212	1320	1440	-
PW121A	1212	1212	1212	1320	1440	-
PW123	1212	1212	1212	1320	-	-
PW123AF	1212	-	1212	1320	-	-
PW123B	1212	1212	1212	1320	-	-
PW123C	1212	1212	1212	1320	-	-
PW123D	1212	1212	1212	1320	-	-
PW123E	1212	1212	1212	1320	-	-
PW124B	1212	1212	1212	1380	-	-
PW125B	1212	1212	1212	1380	-	-
PW126	1212 (*)	1212	1212	1380	-	-
PW126A	1212	1212	1212	1380	-	-
PW127	1212	1212	1212	1296	1440	-
PW127B	1212	1212	1212	-	1440	-
PW127D	1212	1212	1212	-	1440	-
PW127E	1212	1212	1212	1296	1440	-
PW127F	1212	1212	1212	1296	1440	-
PW127G	1212	1212	1212	-	1440	-
PW127M	1212	1212	1212	1296	1440	-

(*) PW126 Max Contingency 2 ½ minutes max and Intermediate Contingency ratings

2.2 Maximum HP Spool Speed:

Rating	Maximum Take-off (RPM)	Normal Take-off (RPM)	Maximum Continuous (RPM)	Transient 20 secs (RPM)	Transient 5 secs (RPM)	Starting 5 secs (RPM)
PW118	-	33300	33300	33966	-	-
PW118A	-	33966	33966	33966	-	-
PW119B	34200	34200	34200	34700	-	-
PW119C	34200	34200	34200	34700	-	-
PW120 (*)	34350	-	34150	34675	-	-
PW120A (*)	34350	-	34150	34675	-	-
PW121 (*)	34350	-	34150	34675	-	-
PW121A	34380	33975	34160	34675	-	-
PW123	34200	33633	34200	34550	-	-
PW123AF	34200	-	34200	34550	-	-
PW123B	34200	33633	34200	34550	-	-
PW123C	34200	33633	34200	34550	-	-
PW123D	34200	33633	34200	34550	-	-
PW123E(*)	34200	-	34200	34550	-	-
PW124B	34200	33633	34200	34550	-	-
PW125B	34200	33750	34200	34550	-	-
PW126	34550 (**)	33600	33600	34550	-	-
PW126	34200 (***)	-	-	-	-	-
PW126A	34190	33670	34190	34500	-	-
PW127	34360	33930	34360	35440	-	-
PW127B	34360	33850	34360	34730	-	-
PW127D	34360	33850	34360	34730	-	-
PW127E	34360	33930	34360	35440	-	-
PW127F	34360	33930	34360	35440	-	-
PW127G	34530	34050	34530	35440	-	-
PW127M	34360	33930	34360	35440	-	-

(*) See Note 5

(**) PW126 Max Contingency 2 ½ minute max power rating

(***) PW126 Intermediate Contingency power rating

2.3 Maximum LP Spool Speed:

Rating	Maximum Take-off (RPM)	Normal Take-off (RPM)	Maximum Continuous (RPM)	Transient 20 secs (RPM)	Transient 5 secs (RPM)	Starting 5 secs (RPM)
PW118	-	27700	27700	28531	-	-
PW118A	-	28808	28808	28808	-	-
PW119B	28900	28900	28900	29340	-	-
PW119C	28900	28900	28900	29340	-	-
PW120 (*)	-	-	-	-	-	-
PW120A (*)	-	-	-	-	-	-
PW121 (*)	-	-	-	-	-	-
PW121A (*)	-	-	-	-	-	-
PW123	28800	28170	28800	28900	-	-
PW123AF	28800	-	28800	28900	-	-
PW123B	28800	28270	28800	28900	-	-
PW123C	28800	28270	28800	28900	-	-
PW123D	28800	28270	28800	28900	-	-
PW123E	28800	28170	28800	28900	-	-
PW124B	28800	28170	28800	28900	-	-
PW125B	28800	28140	28800	28900	-	-
PW126	28900 (**)	27900	27900	28900	-	-
PW126	28500 (***)	-	-	-	-	-
PW126A	28900	28280	28900	28900	-	-
PW127	28870	28090	28870	29575	-	-
PW127B	28870	28000	28870	29500	-	-
PW127D	28870	28000	28870	29500	-	-
PW127E	28870	28090	28870	29575	-	-
PW127F	28870	28090	28870	29575	-	-
PW127G	28990	28500	28990	29575	-	-
PW127M	28870	28090	28870	29575	-	-

(*) see Note 9

(**) PW126 Max Contingency 2 ½ minutes max power rating

(***) PW126 Intermediate Contingency power rating

3. Maximum Output Torque:

Rating	Maximum Take-off (Nm)	Normal Take-off (Nm)	Maximum Continuous (Nm)	Transient 20 secs (Nm)	Transient 5 secs (Nm)	Starting 5 secs (Nm)
PW118	-	10846	9860	12569	-	-
PW118A	-	10846	9860	12569	-	-
PW119B	12324	-	12324	14331	-	-
PW119C	12324	-	12324	14331	-	-
PW120 (*)	14913	13557	13557	17285	-	-
PW120A (*)	14913	13557	13557	17285	-	-
PW121 (*)	14913	13557	13557	17285	-	-
PW121A	14913	13557	13557	17285	-	-
PW123	14913	13558	13558	17286	-	-
PW123AF	14913	-	13558	17287	-	-
PW123B	15181	13558	13558	17286	-	-
PW123C	13612	-	13612	17286	-	-
PW123D	13612	-	13612	17286	-	-
PW123E	14913	13558	13558	17286	-	-
PW124B	15144	12818	14597	17734	-	-
PW125B	14870	13409	12758	19390	-	-
PW126	15795 (**)	15145	15145	17734	-	-
PW126	15145 (***)	-	-	-	-	-
PW126A	15795	15795	15795	17734	-	-
PW127	17354	17354	17354	19578	-	-
PW127B	17354	17354	17354	17896	-	-
PW127D	17354	17354	17354	19578	-	-
PW127E	17354	17354	17354	19578	-	-
PW127F	17354	17354	17354	19578	-	-
PW 127G	17625	17625	17625	19578	-	-
PW127M	17354	17354	17354	19578	-	-

(*) See Note 10

(**) PW126 Max Contingency 2 ½ minutes max power rating

(***) PW126 Intermediate Contingency power rating

4. Pressure Limits:

4.1 Fuel Pressure Limit:

Refer to Installation Manual.

4.2 Oil Pressure Limit:

Refer to Installation Manual

5. Installation Assumptions:

The installation assumptions are quoted in the applicable engine model Installation Manual.

6. Dispatch Limitations:

There is no Time Limited Dispatch for the EEC of this engine

V. Operating and Service Instructions

1. Manuals:

Engine Model	Engine Installation Manual	Engine Maintenance Manual	Engine Overhaul Manual
PW118	PW118	3034622	3034623
PW118A	PW118A	3034622	3034623
PW119B (*)	PW119B/PW119C	-	-
PW119C (*)		-	3038553
PW120	PW120	3034642	3034643
PW120A	PW120A	3034632	3034633
PW121(BS717)	PW121	3034632	3034633
PW121(BS722,BS725)		3034642	3034643
PW121A	PW121A	3034642	3036433
PW123	PW123	3036432	3036433
PW123AF	PW123AF	3034538	3034539
PW123B	PW123B	3036432	3036433
PW123C	PW123C	3036432	3036433
PW123D	PW123D	3036432	3036433
PW123E	PW123E	3036432	3036433
PW124B	PW124B	3037332	3037333
PW125B	PW125B	3034932	3034933
PW126	PW126	3034922	3034923
PW126A	PW126A	3034922	3034923
PW127	PW127	3037332	3037333
PW127B (*)	PW127B	-	3034933
PW127D	PW127D	3034922	3034923
PW127E	PW127E	3037332	3037333
PW127F	PW127F	3037332	3037333
PW127G	PW127G	3044822	3044823
PW127M	PW127M	3037332	3037333

(*) See Note 18

2. Approved Conversion Service Bulletins:

For Approved Conversion Service Bulletins, refer to Transport Canada TCDS E-19

VI. Notes

- Note 1:** For all engine models the engine ratings are based on dry sea level static ICAO Standard atmospheric conditions, with no external accessory loads and no airbleed. The quoted ratings are obtainable on a test stand with the specified fuel and oil without intake ducting and using the exhaust port and intake defined in the Installation Manual.
- Note 2:** For all engine models take-off ratings that are nominally limited to 5 minutes duration may be used for up to 10 minutes for One Engine Inoperative operations without adverse effects upon engine airworthiness. Such operations are anticipated on an infrequent basis (as engine failure at take-off events are uncommon) and no limits or special inspections are required.
- Note 3:** The PW120, PW120A, PW121, PW121A, PW123, PW123B, PW123C, PW123D, PW123E, PW124B, PW125B, PW126, PW126A, PW127, PW127B, PW127D, PW127E, PW127F, PW127G and PW127M engine models include provision for automatic power increase from Normal Take-off Power to Max. Take-Off Power. The limitations stated for Normal Take-off are to ensure that the Maximum Take-off limitations are not exceeded in the event of an automatic power increase to Maximum Take-off Power.
- Note 4:** For PW121 engines built to Build Specification (BS) 722 and 725 (ATR 42 installations) see PW120/120A/121 Installation Manual for the approved ratings and limits. These engines have reduced operating ratings for increased thermal capability.
- Note 5:** For the PW120, PW120A, PW121 and PW123E engine models, the Normal Take-off HP Spool Speed limitation is variable with ambient temperature to ensure the maximum spool speed is not exceeded in the event of an automatic power increase to Maximum Take-off. Refer to the engine Installation Manual for the Normal Take-off limit.
- Note 6:** Normal Take-off ITT and LP Spool Speed limitations may vary with the ambient temperature for the following engine models:
PW121, PW123, PW123B, PW123C, PW123D, PW123E, PW124B, PW125B, PW126A, PW127, PW127B, PW127D, PW127E, PW127F, PW127G and PW127M
Refer to the engine Installation Manual for the curves defining these limits.
- Note 7:** Approvals for the Maximum ITT limits are based upon tests conducted with maximum gas temperature at exit of the Compressor Turbine Nozzle Guide Vanes according to the following table:

Engine Model	Maximum Gas Temperature (°C)
PW118	1285
PW118A	1291
PW119B, PW119C	1316
PW120, PW120A	1285
PW121, PW121A	1310
PW123, PW123AF, PW123B, PW123C, PW123D	1316
PW123E	1330
PW124B, PW125B	1316
PW126, PW126A	1316
PW127, PW127B, PW127D, PW127E	1343
PW127F, PW127G, PW127M	1358

- Note 8:** For PW120, PW120A and PW121 engine models not incorporating SB 20231 or SB 20970 or SB 21059 or SB 21092 the Maximum Continuous ITT limit is 785°C, the Maximum Take-off and Maximum Continuous HP Spool Speed limit is 33300 rpm, and the 20 second transient HP Spool Speed limit is 33966 rpm. In this case the Maximum Gas Temperature applicable to PW121 in Note 7 is 1285°C continuous.
- Note 9:** The speed relationship between the low compressor spool and the high compressor spool is controlled by new engine acceptance procedure and the Overhaul Manual for the PW120, PW120A, PW121 and PW121A.
- Note 10:** PW120, PW120A and PW121 engine models not incorporating SB 20316 or SB 20380 have the following limits: Output Torque Maximum Continuous 11572 Nm, Take-off 13355 Nm and 20 second transient 14914 Nm.

Note 11: The Electronic Engine Control (EEC) system conforms to the lightning test defined by SAE AE4L committee report. For specific capabilities and installation requirements refer to the Installation Manual

Note 12: For PW118, PW120, PW120A and PW121 models, the software contained in the Electronic Control Unit (ECU) has been developed, documented and tested in accordance with the provisions of the Critical Category of RTCA/DO 178 November 1981.

Note 13: The software contained in the ECU for the PW118A, PW119B, PW119C, PW121A, PW123, PW123AF, PW123B, PW123C, PW123D, PW123E, PW124B, PW125B, PW126, PW126A, PW127, PW127B, PW127D, PW127E, PW127F and PW127G engine models have been designed, developed, documented and tested in accordance with the provisions of the Critical Category of RTCA/DO 178A, March 1985

The PW127M software is a modification of the PW127F software. The modifications have been designed, developed, documented and tested in accordance with the provision of the Level A of RTCA/DO 178B, December 1992

Note 14: All engine models have been approved with a propeller overspeed "get-home" capability to cater for propeller control malfunction. The engine Installation Manual operating limits define this overspeed limit.

Note 15: The approved service life values for Life Limited Rotor Components (Critical Parts) are defined in the Airworthiness Limitation Section of the Maintenance Manual or the Airworthiness Limitation Manual as applicable

Note 16: All engine models, except those identified in Note 17, are acceptable with both 6-blade and 4-blade propellers.

Note 17: The PW125B, PW126, PW126A, PW127A, PW127B, PW127D, PW127E (BS1034), PW127F (BS1033), PW127G and PW127M engine models are acceptable with 6-blade propeller installation only.

Note 18: PW119B (BS824), PW119C (BS878) and PW127B (BS812/813) Maintenance instructions are provided in the form of source data to the airframe manufacturer.
