SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER

DESCRIPTION

: DC BRUSHLESS BLOWER

DIMENSIONS

: 97X94X33 mm

MODEL

: **PMB1297PYB1-AY**

P/N

: (2).GN

SUNON SPEC. NO.

: D09010970G-00

APPROVAL NO.

APPROVED BY

(AUTHORIZED)

					<u> </u>	SPEC.NO	D09010970G-00
					~ //	ISSUE DATE	06.03.2005
DRAWN	Kiki 6/1	CHECKED	- 61	APPROVED	1 Ph	EDITION	0
			Lisayo	ı	/ / / X	REVISION DATE	
				_	/ 00 / 6	E.SPEC	EB10222

|建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

12FL., 120 CHUNG CHENG 1ST RD., TEL:886-7-7163069(41 LINES) KAOHSIUNG, TAIWAN, R.O.C. ~

FAX:886-7-7163086~89

DC BRUSHLESS BLOWER

MODEL: PMB1297PYB1-AY

P/N : (2).GN

CHARACTERISTICS

1. Motor Design : DC brushless 4 pole motor design.

2. Insulation Resistance : More than 10M ohm between internal stator and

lead wire(+) measured at DC 500V.

3. Dielectric Strength : Applied AC 500V for one minute or AC 600V for

2 seconds between housing and lead wire(+)

4. Noise Level : Measured in a semi-anechoic chamber

with background noise level below 15

dB(A). The fan is running in free air with the

microphone at a distance of one meter

from the fan intake.

5. Input Power, Current & Speed : Measured after continuous 10 minute

operation at rated voltage in clean air, and

at ambient temperature of 25 degrees C.

6. Tolerance : ±15% on rated power and current.

7. Air Performance : Measured by a double chamber. The values

are recorded when the fan speed has stabilized

at rated voltage.

建準電機工業股份有限公司	SPEC.NO	D09010970G-00	REVISION D	AZE
SUNONWEALTH ELECTRIC	ISSUE DATE	06. 03. 2005	EDITIO	柳柳發部
MACHINE INDUSTRY CO., LTD.	PAGE	2 OF 9		94. 06. 14

SPECIFICATIONS

MODEL: PMB1297PYB1-AY

P/N : (2).GN

1-1. Rated Voltage : 12 VDC

1-2. Operating Voltage Range : 6~12 VDC

1-3. Starting Voltage : 6 VDC (25 deg. C POWER ON/OFF)

1-4. Rated Speed : 3600 RPM ± 10%

1-5. Air Delivery : 30.5 CFM

1-6. Static Pressure : 0.92 Inch-H₂O

1-7. Rated Current : 0.72 AMP

1-8. Rated Power : 8.6 WATTS

1-9. Noise Level : 55.8 dB(A)

1-10. Direction of Rotation : Counter-clockwise viewed from front of fan blade

1-11. Operating Temperature : -10 to +70 deg. C

1-12. Storage Temperature : -40 to +70 deg. C

1-13. Bearing System : Precision ball bearing system

1-14. Weight : 185 g

1-15. Safety : UL/CUR/TUV/CE Approvals

1-16. Vibration : Vibration of acceleration 1.5G and

frequency 5~50~5Hz is applied in all

3 directions(X,Y,Z), in cycles of 1 minute each,

for a total vibration time of 30 minutes.

1-17. Locked Rotor Protection : Automatic Restart Capability

Note: In a situation where the fan is locked by an external

force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off

the electrical power to the motor. The fan will

automatically restart when the locked rotor condition is

released.

	Teleased.			18工業(
建準電機工業股份有限公司	SPEC.NO	D09010970G-00	REVISION D	ATE
SUNONWEALTH ELECTRIC	ISSUE DATE	06. 03. 2005	EDITIO	例析發部
MACHINE INDUSTRY CO., LTD.	PAGE	3 OF 9		94. 06. 14

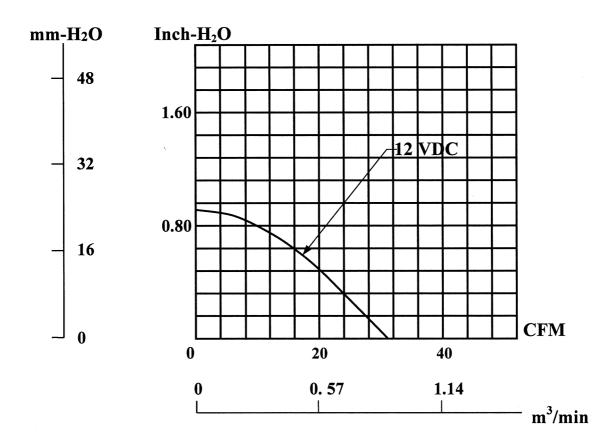
發行章

MODEL: PMB1297PYB1-AY

P/N : (2).GN

PERFORMANCE CURVES

STATIC PRESSURE



建準電機工業股份有限公司	SPEC.NO	D09010970G-00	REVISION I	DATE
SUNONWEALTH ELECTRIC	ISSUE DATE	06. 03. 2005	EDITIO	● 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新 新
MACHINE INDUSTRY CO., LTD.	PAGE	4 OF 9		94 06 14
<u> </u>				VT. VV. IT

MATERIAL

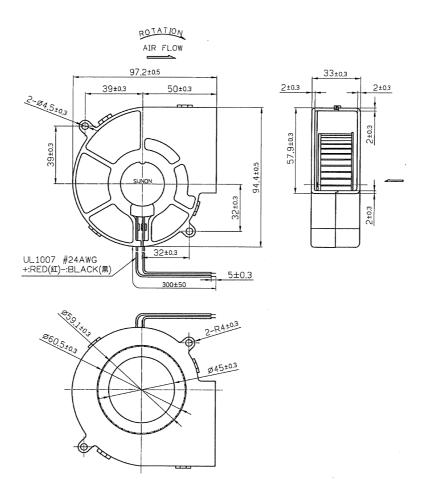
2-1. Frame : Thermoplastic PBT of UL 94V-0

2-2. Impeller : Thermoplastic PBT of UL 94V-0

2-3. Bobbin : Thermoplastic PBT of UL 94V-0

2-4. Lead Wire : UL1007,24 awg,+RED,-BLACK

DIMENSIONS



- 1. One directional exhaust
- 2. The Best Mounting Direction: Fan blade face up or shaft horizontal direction.

UNITS: mm

建準電機工業股份有限公司	SPEC.NO	D09010970G-00	REV	ISION	DAT	E	工業	般
SUNONWEALTH ELECTRIC	ISSUE DATE	06. 03. 2005	E D	ITI	ON	0	称	部到
MACHINE INDUSTRY CO., LTD.	PAGE	5 OF 9		-	-	0/1	06	1/
						υ 1 .	00.	14

Notes

.SAFETY

- 1. DO NOT use or operate this fan in excess of the limitations set forth in this specification. SUNON is not be responsible for the non-performance of this fan and/or any damages resulting from its use, if it is not used or operated in accordance with the specifications.
- 2. SUNON recommends adding a protection circuit to the product or application in which this fan is installed, such as a thermo-fuse, or current-fuse or thermo-protector. The failure to use such a device may result in smoke, fire, electric shock by insulation degradation in cases of motor lead short circuit, overload, or over voltage, and/or other failure.
- 3. SUNON recommends installing a protection device to the product or application in which this fan is installed if there is a possibility of reverse-connection between VDC (+) and GND (-). The failure to install such a device may result in smoke, fire, and/or destruction, although these conditions may not manifest immediately.
- 4. This fan must be installed and used in compliance with all applicable safety standards and regulations.
- 5. Use proper care when handling and/or installing this fan. Improper handling or installation of this fan may cause damage that could result in unsafe conditions.
- 6. Use proper care during installation and/or wiring. Failure to use proper care may cause damage to certain components of the fan including, but not limited to, the coil and lead wires, which could result in smoke and/or fire.
- 7. DO NOT use power or ground PWM to control the fan speed. If the fan speed needs to be adjusted, please contact Sunon to customize the product design for your application.
- 8. For critical or extreme environments, including non stop operation, please contact Sunon and we will gladly provide assistance with your product selection to ensure an appropriate cooling product for your application.

建準電機工業股份有限公司	SPEC.NO	D09010970G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	06. 03. 2005	EDITION	0氮微工業(發)
MACHINE INDUSTRY CO., LTD.	PAGE	6 OF 9	/	分 研 發 部

Notes

II. SPECIFICATION MODIFICATION

- 1. SUNON offers engineering assistance on fan installation and cooling system design.
- 2. All changes, modifications and/or revisions to the specifications, if any, are incorporated in the attached specifications.
- 3. No changes, modifications and/or revisions to these specifications are effective absent agreement, by both Sunon and the customer, in writing.
- 4. This fan will be shipped in accordance with the attached specification unless SUNON and the customer have agreed otherwise, in writing, as specificied in Paragraph 3, above.

III. OTHER

- 1. When building your device, please examine thoroughly any variation of EMC, temperature rise, life data, quality, etc. of this product by shock/drop/vibration testing, etc. If there are any problems or accidents in connection with this product, it should be mutually discussed and examined.
- 2. Use proper care when handling this fan. Components such as fan holders or bearings may be damaged, if touched with fingers or other objects. Additionally, static electricity (ESD) may damage the internal circuits of the fan.
- 3. DO NOT operate this fan in proximity to hazardous materials such as organic silicon, cyanogens, formalin, phenol, or corrosive gas environments including, but not limited to, H₂S, SO₂, NO₂, or Cl₂.
- 4. SUNON recommends that you protect this fan from exposure to outside elements such as dust, condensation, humidity or insects. Exposure of this fan to outside elements such as dust, condensation, humidity or insects may affect its performance and may cause safety hazards. SUNON does not warrant against damage to the product caused by outside elements.

建準電機工業股份有限公司	SPEC.NO	D09010970G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	06. 03. 2005	EDITION	0%機工業(稅)
MACHINE INDUSTRY CO., LTD.	PAGE	7 OF 9	/	粉研發部

Notes

- 5. This fan must be installed properly and securely. Improper mounting may cause harsh resonance, vibration, and noise.
- 6. Fan guards may prevent injury during handling or installation of the fan and are available for sale with this fan.
- 7. Unless otherwise noted, all testing of this fan is conducted at 25°C ambient temperature and sixty-five percent (65%) relative humidity.
- 8. DO NOT store this fan in an environment with high humidity. This fan must be stored in accordance with the attached specifications regarding storage temperature. If this fan is stored for more than 6 months, SUNON recommends functional testing before using.
- 9. SUNON reserves the right to use components from multiple sources at its discretion. The use of components from other sources will not affect the specifications as described herein.
- 10. The "Life Expectancy" of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Reports (L10 and MTTF Report) that relate to this fan are only for reference.

VI. WARRANTY

This fan is warranted against all defects which are proved to be fault in our workmanship and material for one year from the date of our delivery. The sole responsibility under the warranty shall be limited to the repair of the fan or the replacement thereof, at SUNON's sole discretion. SUNON will not be responsible for the failures of its fans due to improper handing, misuse or the failure to follow specifications or instructions for use. In the event of warranty claim, the customer shall immediately notify SUNON for verification. SUNON will not be responsible for any consequential damage to the customer's equipment as a result of any fans proven to be defective.

建準電機工業股份有限公司	SPEC.NO	D09010970G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	06. 03. 2005	EDITION	0 機工業(別
MACHINE INDUSTRY CO., LTD.	P A G E	8 OF 9		秋 研 發 部

94.06.14

發行

Declaration of RoHS

Control declaration of environment-related substances/materials

1.In accordance with the Restriction of Hazardous Substances (RoHS) Directive, Sunon product with P/N: GN models have complied with law and discipline not to employ the forbidden substances, and restrict the allowable concentration of some limited substances deliberately in our components.

No		Criteria	
1	CFCs & HCFCs (ozone depleting	ng substances)	Forbidden
2	Chlorinated Organic Solvent		Forbidden
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm
		Solder	<1000ppm
3	Lead and its compounds	Steel alloy	<3500ppm
		Aluminium alloy	<4000ppm
		Copper alloy	<4wt%
		Solder	<20ppm
4	Cadmium and its compounds	Parts composed of metals containing zinc (e.g. brass, zinc for die casting)	<100ppm
		Plastic	<5ppm
5	PBBs and PBDEs		Forbidden
6	PCB and PCT		Forbidden
7	CP, Short-chain Chlorinated pa	araffins C10-13, Cl≥48 wt%	Forbidden
8	Mirex		Forbidden
9	PCN		Forbidden
10	Hexavalent Chromium compou	ins	<100ppm
11	Mercury and its compounds		Forbidden
12	Asbestos		Forbidden
13	Organic Tin compounds		Forbidden
14	Azo compounds		Forbidden
15	TBBP-A in external case plastic	c parts of products (PCB is exempted)	<1000ppm
16	Nickel in external case parts, which	h are likely to result in prolonged skin exposure	<1000ppm

建準電機工業股份有限公司	SPEC.NO	D09010970G-00	REVISION DATE	
SUNONWEALTH ELECTRIC	ISSUE DATE	06. 03. 2005	EDITION	0 機工業(例
MACHINE INDUSTRY CO., LTD.	PAGE	9 OF 9		(A) (A) (A)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DC Fans category:

Click to view products by Sunon manufacturer:

Other Similar products are found below:

614R 6424/2HP-210 8312R DV4118/2NP-183 AFB0948HH-S687 PFB0824DHE-8B72 G2E085-AA05-10 RD20S-4/210660 4318/12T 4418HH AUB0912H-F00 3412N/2ME K2E225-RA92-09 4184N/2XR 5214N2HH 614J2HHPR-010 8412NGL-12 4114N/12HHR-297 4656 ZWR-903 4112N12GL-175 KD2406PKB2.(2).GN AFB1248HHE AFB1212LE-F00 FAN-SCH-1 MF60151V1-1000U-G99 PF80252V1-1000U-G99 PF92252V1-1000U-G99 4112N/2H6P 4114N/17-251 6212NH 622/2N 712F-011 8218J/2NP-181 W1G180-AB47-15 FAA1-12038NBKW31-A 6318N/2TDP 6318N/2H3PU 6318HU 424JMU PMD1206PTVX-A.U.GN PF80251B2-000U-F99 EF40101BX-1000U-G99 AD1224LB-A71GL 9GA0924L4021 9GA0924M4021 9GA0924M4011 9GA0824B20011 9GA0812A2D0011 9GA0912M4D011 9GA0924W4D01