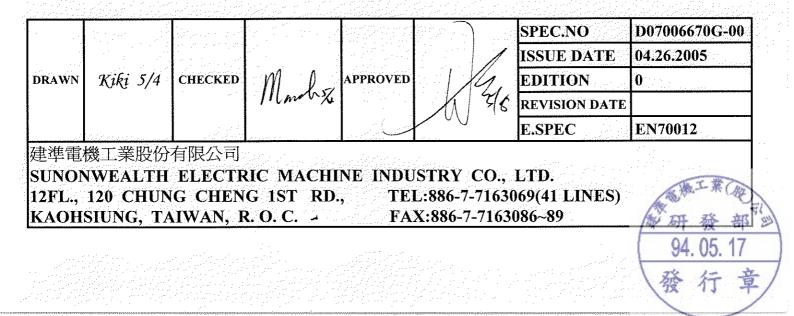


SPECIFICATION FOR APPROVAL

CUSTOMER :	
DESCRIPTION :	DC BRUSHLESS FAN
DIMENSIONS :	70X70X25 mm
MODEL :	PMD1207PTB1-A
P/N :	(2).F.GN
SUNON SPEC. NO. :	D07006670G-00
APPROVAL NO. :	
APPROVED BY :	
(AUTHORIZED)	



DC BRUSHLESS FAN MODEL : PMD1207PTB1-A P/N : (2).F.GN

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CHARACTERISTICS

1. Motor Design

2. Insulation Resistance

3. Dielectric Strength

4. Noise Level

5. Input Power, Current & Speed

DC brushless 4 pole motor design.

More than 10M ohm between internal stator and lead wire(+) measured at DC 500V.

Applied AC 500V for one minute or AC 600V for 2 seconds between housing and lead wire(+)

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.

Measured after continuous 10 minute operation at rated voltage in clean air, and at ambient temperature of 25 degrees C.

6. Tolerance

7. Air Performance

±15% on rated power and current.

Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.

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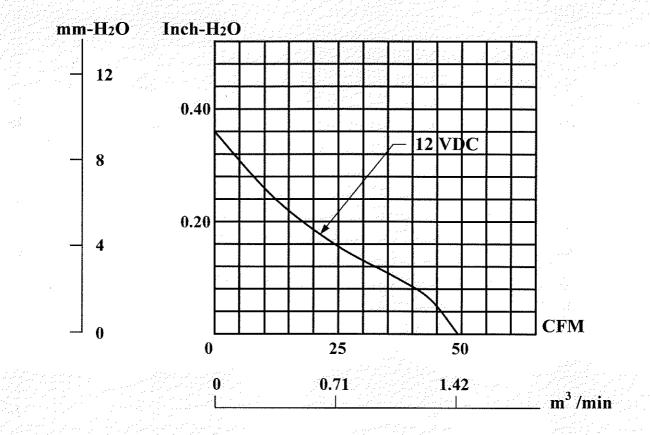
SPECIFICATIONS

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	automat	ically restart when	motor. The fan will the locked rotor cond	ition is
	tempera	ture will be preven	ted by temporarily tu	
			the fan is locked by an is on, an increase in c	
1-17. Locked Rotor Protection		natic Restart C		1
	For a	total vibration	time of 30 minute	S.
	3 dire	ctions(X,Y,Z), i	n cycles of 1 minu	
1-16. Vibration	and the second second second second	tion of accelera ency 5~50~5Hz	tion 1.5G and is applied in all	
1-15. Safety		UR/TUV/CE A		
1-14. Weight	: 90 g			
1-13. Bearing System		ion ball bearin	g system	
1-12. Storage Temperature	: -40 to	+70 deg. C		
1-11. Operating Temperature	: -10 to	+70 deg. C		
1-10. Direction of Rotation	: Count	er-clockwise vie	wed from front of	fan blade
1-9. Noise Level	: 45 dB	(A)		
1-8. Rated Power	: 4.4 W	ATTS		
1-7. Rated Current	: 0.37A	MP		
1-6. Static Pressure	: 0.36 II	nch-H ₂ O		
1-5. Air Delivery	: 49 CF	M		
1-4. Rated Speed	en Article Constraint Article Constraint	RPM ± 10 %		
1-3. Starting Voltage			WER ON/OFF)	
1-2. Operating Voltage Range	: 6~13.8			
1-1. Rated Voltage	: 12 VD			
P/N : (2).F.GN				a di setta di secondari 1973 - Santa Santa di Santa 1973 - Santa Santa di Santa di Santa di Santa di Santa di S

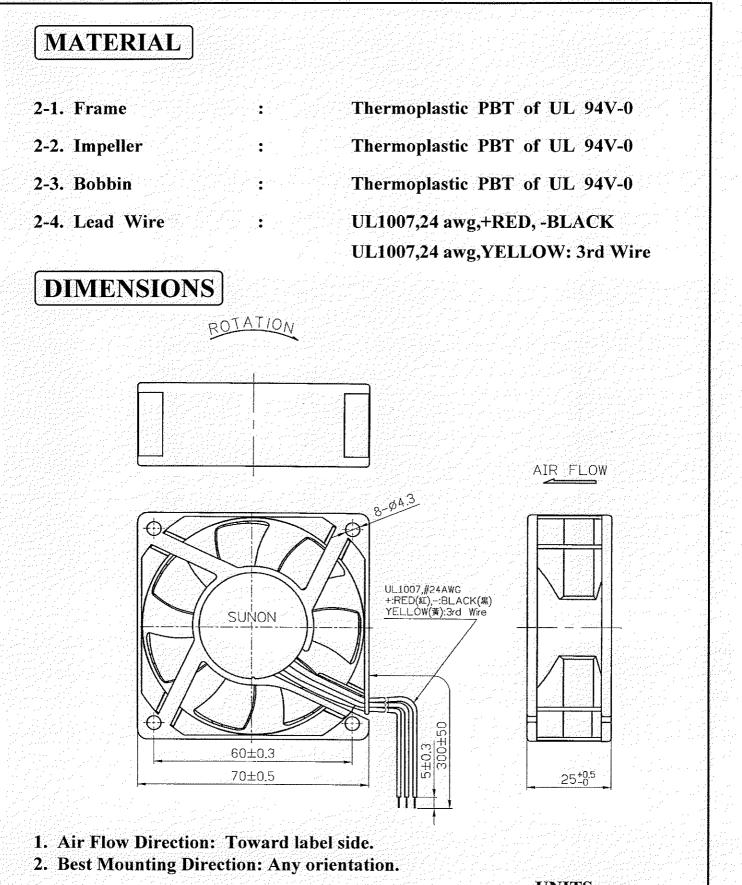
MODEL : PMD1207PTB1-A P/N : (2).F.GN

PERFORMANCE CURVES

STATIC PRESSURE



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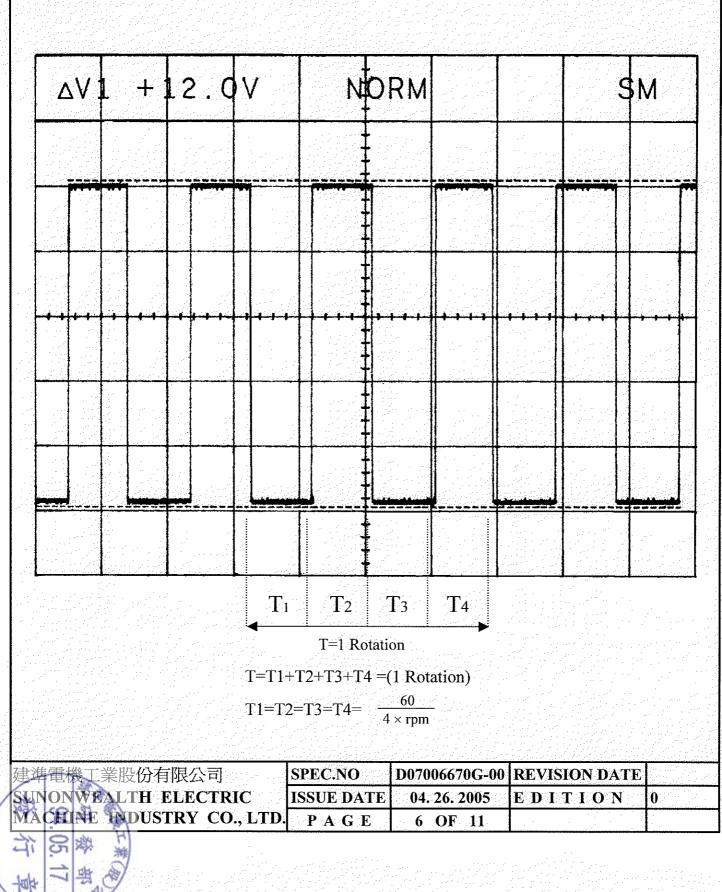


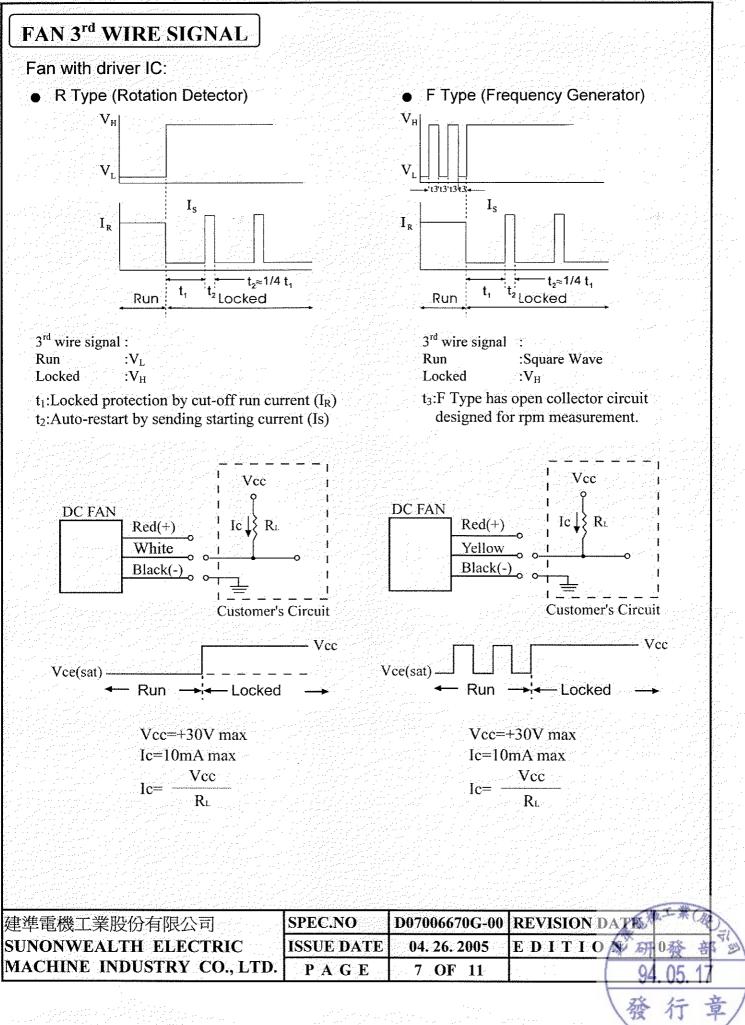
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Notes

I .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 thermoprotector. 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.

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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 specficied 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

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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.

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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 depleti	Forbidden		
2	Chlorinated Organic Solvent			
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm	
		ent Plastic (Frame, Impeller, wire harness, etc Solder Steel alloy Aluminium alloy Copper alloy Solder Parts composed of metals containing zinc (e.g. brass, zinc for die casting) Plastic ed paraffins C10-13, Cl ≥48 wt%	<1000ppm	
3	Lead and its compounds	Steel alloy	<3500ppm	
		Aluminium alloy	<4000ppm	
		Copper alloy	<4wt%	
4	Cadmium and its compounds	1 0	<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			
10	Hexavalent Chromium compou	exavalent Chromium compouns		
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, whic	h are likely to result in prolonged skin exposure	<1000ppm	

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