

SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:
MOTOR TYPE	Fan & Blower by SUNON
DESCRIPTION	: MagLev Motor Fan
DIMENSIONS	: 60X60X25 mm
MODEL	: PMD4806PTVX-A
P/N	: U.GN
SUNON SPEC. NO.	: D06018940G-00
APPROVAL NO.	:
APPROVED BY	:
(AUTHORIZED)	

DRAWN	Alice- Chang 06/20	CHECKED	Kiddy March	APPROVED	Jacky	SPEC.NO ISSUE DATE EDITION REVISION DATE E.SPEC	D06018940G-00 08.01.2005 1 06. 20 .2013 EN60029	
SUNON 12FL.,	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							

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			LSS FAIN 4806PTVX-A				
P/N		: U.GN					
CHARACTERISTICS	•	. U.UIT					
1. Motor Design	:	DC brus	hless 4 pole motor	design.			
2. Insulation Resistance	:	More tha	n 10M ohm betwe	een internal stator	r and		
		lead wire	e(+) measured at E	DC 500V.			
3. Dielectric Strength	:	Applied .	AC 500V for one r	ninute or AC 600	V for		
		2 seconds	s between housing	and lead wire(+)			
4. Noise Level	:	Measure	d in a semi-anecho	oic chamber			
		with background noise level below 15					
		dB(A). T	he fan is running	in free air with th	e		
		microph	one at a distance o	f one meter			
		from the	fan intake.				
5. Input Power, Current & Speed	:	Measure	d after continuous	a 10 minute			
		operatio	n at rated voltage	in clean air, and			
		at ambie	nt temperature of	25 degrees C.			
6. Tolerance	:	±15% on	rated power and	current.			
7. Air Performance	:	Measure	d by a double cha	mber. The values			
		are recor	ded when the fan	speed has stabiliz	æd		
		at rated v	voltage.				
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SPECIFICATIONS

SIECIFICATIONS				
MODEL : PMD4806PTVX-A P/N : U.GN				
1-1. Rated Voltage	: 48 VDC	1		
1-2. Operating Voltage Range	: 24~56 V	'DC		
1-3. Starting Voltage	: 24 VDC	c (25 deg. C PO	WER ON/OFF)	
1-4. Rated Speed	: 7600 RI	PM <u>+</u> 10%		
1-5. Air Delivery	: 40 CFM	ĺ		
1-6. Static Pressure	: 0.64 Inc	eh-H2O		
1-7. Rated Current	: 114 mA			
1-8. Rated Power	: 5.5 WA	TTS		
1-9. Noise Level	: 45 dB(A	()		
1-10. Direction of Rotation	: Counter	-clockwise viewe	ed from front of f	an blade
1-11. Operating Temperature	: -10 to +	70 deg. C		
1-12. Storage Temperature	: -40 to +	70 deg. C		
1-13. Bearing System	: Vapo bo	earing system		
1-14. Weight	: 75 g			
1-15. Safety	: UL/CU	R/TUV/CE Ap	provals	
1-16. Vibration	frequen 3 direct	· · · · · · · · · · · · · · · · · · ·		
1-17. Locked Rotor Protection	Note: In a force whi temperatu the electr	le the electricity is are will be prevente ical power to the m	e fan is locked by a on, an increase in c d by temporarily tu	oil urning off
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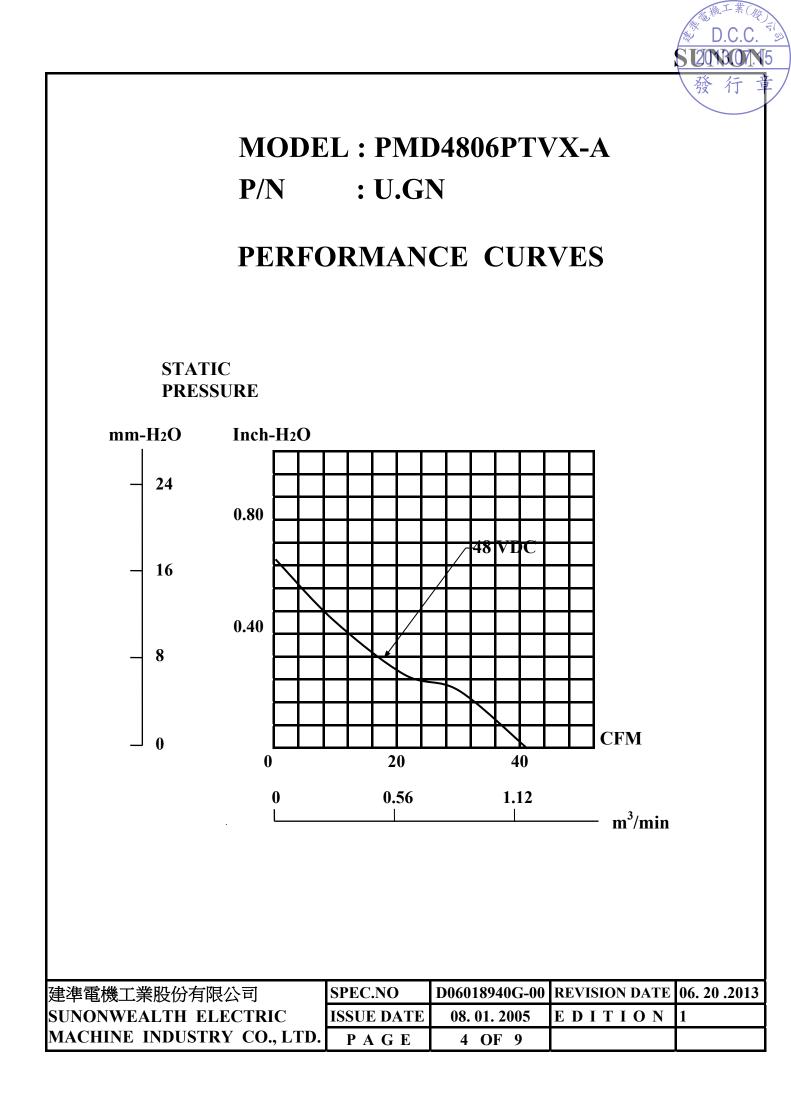
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MATERIAL

2-1. Frame2-2. Impeller2-3. Bobbin2-4. Lead Wire

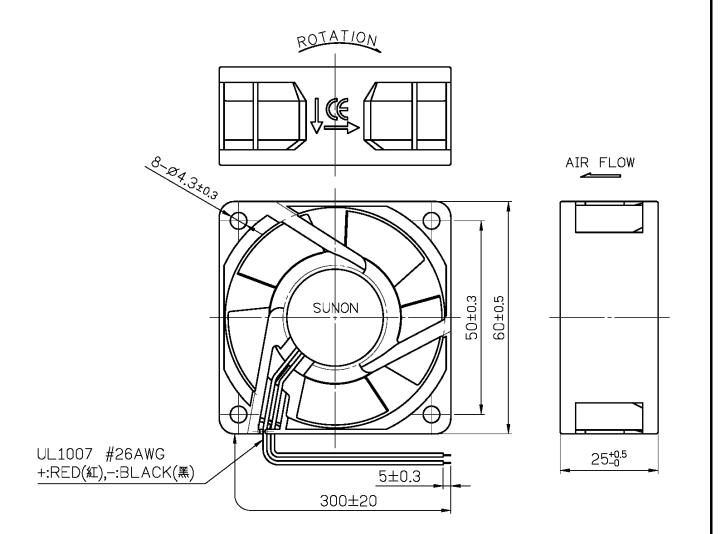
Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 UL1007,26 awg,+RED,-BLACK 業一般

D.C.C. [™] NB**(07**/N5

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DIMENSIONS



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1. Air Flow Direction: Toward label side.

2. Best Mounting Direction: Any orientation.

UNIT:mm

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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 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 lock,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.

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- 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 specified 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.

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- 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 2011/65/EU, 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		Substance	Criteria		
1	CFCs & HCFCs (ozone depleti	ing 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	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 paraffins C10-13, Cl≥48 wt%				
8	Mirex				
9	PCN				
10	Hexavalent Chromium compounds				
11	Mercury and its compounds				
12	Asbestos		Forbidden		
13	Organic Tin compounds		Forbidden		
14	Azo compounds		Forbidden		
15	TBBP-A in external case plastic parts of products (PCB is exempted)				
16	Nickel in external case parts, which are likely to result in prolonged skin exposure				
17	Hexabromocyclododecane (HBCDD)				
18	Di-butyl Phthalate (DBP)				
19	Benzyl butyl Phthalate (BBP)				
20	Di-ethylhexyl Phthalate (DEHP)				
	Di-isobutyl Phthalate (DIBP)				

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