SUNON

SPECIFICATION FOR APPROVAL



						SPEC.NO	D07025480G-00	
	Dalahia					ISSUE DATE	11.01.2019	
DRAWN	Dolphin 11/1	CHECKED	Cindy	APPROVED	Cindy	EDITION	0	
	11/1					REVISION DATE		
						E.SPEC	EN70007	
SUNON NO. 30,	, LN. 296, X	ELECTR INYA RD	RIC MACHI ., QIANZHE	N DIST.,	TEL:886-7	-8135888	●	
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DC	BRI	J SHLE	CSS FAN		
MODE	L:	PMD2	407PTV2-A		
P/N	•	GN			
	•	UN			
CHARACTERISTICS					
1. Motor Design	:	DC bru	shless 4 pole moto	or design.	
2. Insulation Resistance	:	More th	an 10M ohm betv	veen internal stat	or and
		lead wir	re(+) measured at	DC 500V.	
3. Dielectric Strength	:	Applied	AC 500V for one	minute or AC 60	0V for
		2			`
		2 second	ls between housin	ig and lead wire(+	-)
4. Noise Level	:	Measur	ed in a semi-anecl	noic chamber	
		with ba	ckground noise le	vel below 15	
		dB(A).	The fan is running	g in free air with t	the
		micropł	10ne at a distance	of one meter	
		from the	e fan intake.		
5. Input Power, Current & Speed	:	Measur	ed after continuo	us 10 minute	
		operatio	on at rated voltage	e in clean air, and	
		at ambi	ent temperature o	f 25 degrees C.	
			F		
6. Tolerance	:	<u>+</u> 15% o	n rated power and	d current.	
7. Air Performance	•	Moosur	ed by a double ch	ambor. Tha valua	S
	:		·		
			orded when the fa	n speed has stabil	izeu
		at rated	voltage.		
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SPECIFICATIONS

MODEL: PMD2407PTV2-A P/N : GN		
1-1. Rated Voltage	:	24 VDC
1-2. Operating Voltage Range	:	10~27.6 VDC
1-3. Starting Voltage	:	10 VDC (25 deg. C POWER ON/OFF)
1-4. Rated Speed	:	4700 RPM ± 10 %
1-5. Air Delivery	:	45 CFM
1-6. Static Pressure	:	0.31 Inch-H ₂ O
1-7. Rated Current	:	160 mA
1-8. Rated Power	:	3.8 WATTS
1-9. Noise Level	:	42 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	:	Vapo bearing system
1-14. Weight	:	90 g
1-15. Safety	:	UL/CUR/TUV/CE Approvals
1-16. 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. Polarity Protection

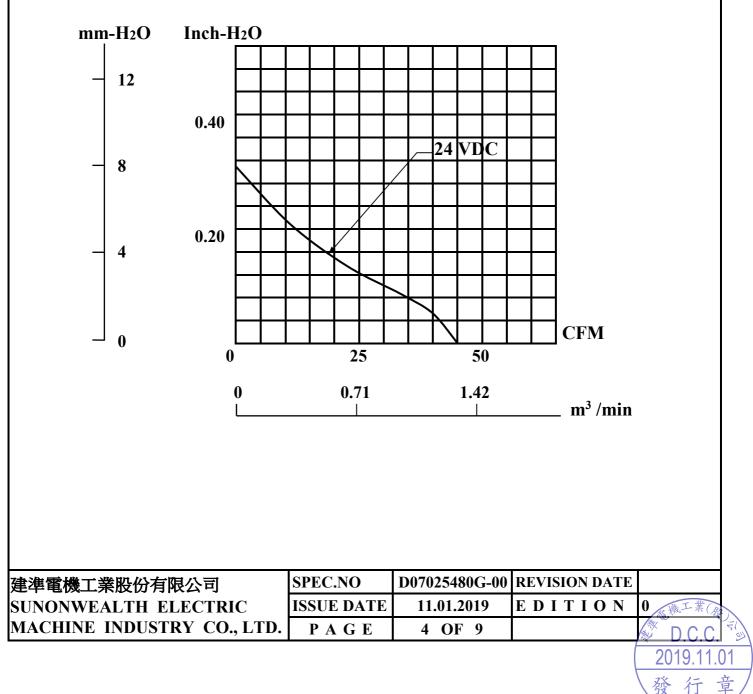
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MODEL : PMD2407PTV2-A P/N : GN

PERFORMANCE CURVES

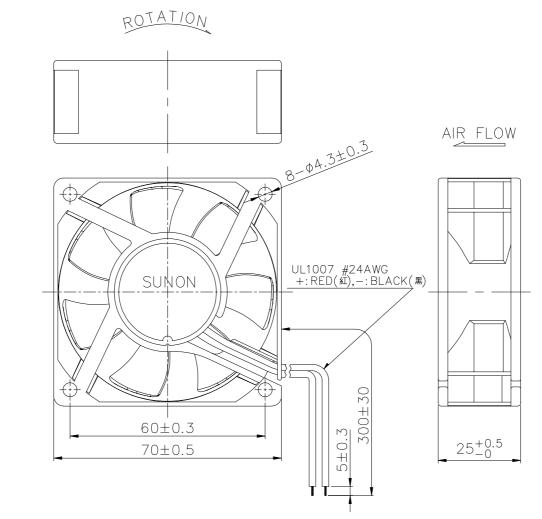
STATIC PRESSURE



MATERIAL

2-1. Frame	:	Thermoplastic PBT of UL 94V-0
2-2. Impeller	:	Thermoplastic PBT of UL 94V-0
2-3. Lead Wire	:	UL1007,24 awg,+RED, -BLACK

DIMENSIONS



- 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 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 reverseconnection 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 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.

Re: The term can be excluded, if the fan has been with IP design and meets customer's IP requirement.

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- 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 2011/65/EU, SUNON product 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	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%
		<20ppm	
4	Codminum and its common da	Parts composed of metals containing zinc	<100
4	Cadmium and its compounds	(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 p	Forbidden	
8	Mirex	Forbidden	
9	PCN	Forbidden	
10	Hexavalent Chromium compou	<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 plasti	c parts of products (PCB is exempted)	<1000ppm
16	Nickel in external case parts, whi	ch are likely to result in prolonged skin exposure	<1000ppm
17	Hexabromocyclododecane (HB	<1000ppm	
18	Di-butyl Phthalate (DBP)		<1000ppm
19	Benzyl butyl Phthalate (BBP)		<1000ppm
20	Di-ethylhexyl Phthalate (DEHI	?)	<1000ppm
21	Di-isobutyl Phthalate (DIBP)		<1000ppm

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