### SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	DC BRUSHLESS FAN
DIMENSIONS	:	120X120X25 mm
MODEL	:	PMD1212PTB1-A
P/N	:	(2).GN
SUNON SPEC. NO.	:	D12005980G-00
CUSTOMER APPROVAL NO.	:	
APPROVED BY CUSTOMER	:	
(AUTHODIZED)		

(AUTHORIZED)

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		CHECKED	Kiddy March	APPROVED	Jacky	EDITION	2		
		March			<b>REVISION DATE</b>	06.29.2013			
						E.SPEC	EN12016		
建準電	建準電機工業股份有限公司								
	SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.								
			., QIANZHEN		TEL:886-7-81		高機工		
KAOHSIUNG CITY 80673, TAIWAN (R.O.C) FAX:886-7-8230505/8230606/823101							/823101		
URL:ht	ttp://www.si	unon.com			E-mail: sunor	n@email.sunon.	com.tw		

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	DC BI	RUSHL	ESS FAN		
			1212PTB1-A		
Р/	N	: (2).G	Ν		
CHARACTERISTICS					
1. Motor Design	:	DC brus	nless 4 pole motor	design.	
				• • • • • •	
2. Insulation Resistance	:	More tha	in 10M ohm betwe	een internal stator	and
		lead wire	(+) measured at <b>E</b>	OC 500V.	
3. Dielectric Strength	:	Applied A	AC 500V for one r	ninute or AC 600V	/ for
		2 seconds	s between housing	and lead wire(+)	
4. Noise Level	:	Measure	d in a semi-anecho	oic chamber	
		with bacl	kground noise leve	el below 15	
		dB(A). T	he fan is running i	in free air with the	•
			one at a distance o		
		_	fan intake.		
		ii oin the	lan muakt.		
5. Input Power, Current & Speed	:	Measure	d after continuous	a 10 minute	
		operatior	n at rated voltage	in clean air, and	
		at ambier	nt temperature of	25 degrees C.	
6. Tolerance	:	±15% on	rated power and	current.	
7. Air Performance		Maaguma	d by a dauble cha	mbon The volues	
An renormance	:		d by a double char		,
				speed has stabilize	ed
		at rated v	voltage.		
建準電機工業股份有限公司	SP	EC.NO	D12005980G-00	<b>REVISION DATE</b>	06.29.2013
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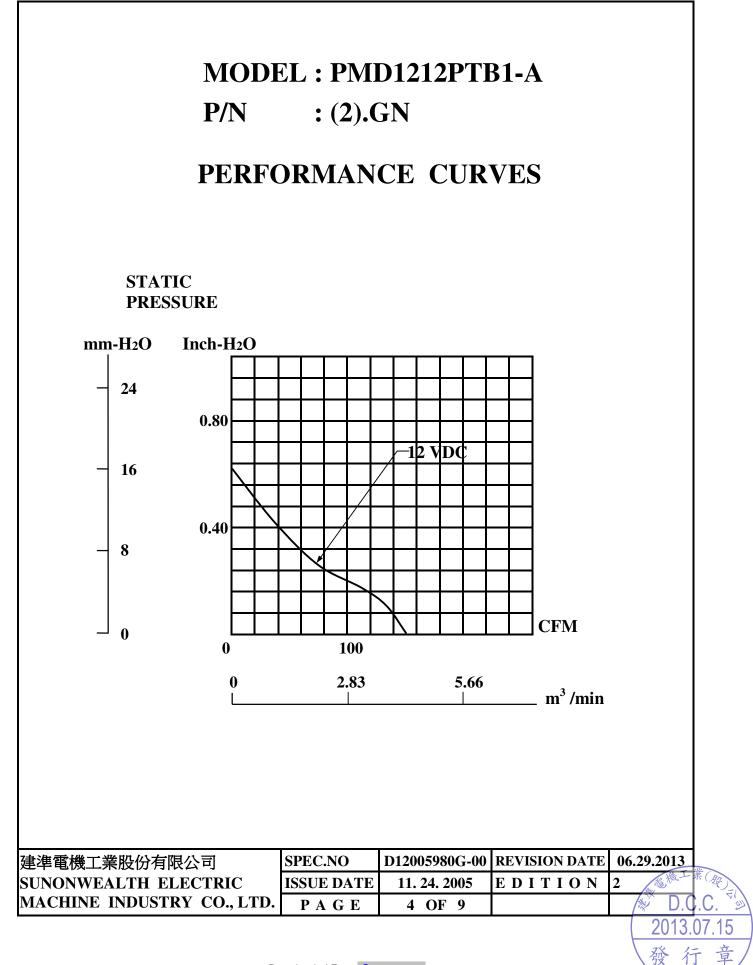
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## **SPECIFICATIONS**

MODEL : PMID1212PTB1-A P/N : (2).GN 1-1. Rated Voltage 1-2. Operating Voltage Range 1-3. Starting Voltage 1-4. Rated Speed 1-5. Air Delivery 1-6. Static Pressure 1-7. Rated Current 1-8. Rated Power 1-9. Noise Level 1-10. Direction of Rotation 1-11. Operating Temperature 1-12. Storage Temperature 1-13. Bearing System 1-14. Weight 1-15. Safety 1-16. Vibration	<ul> <li>: 4500 RP</li> <li>: 150 CFM</li> <li>: 0.62 Incl</li> <li>: 1000 mA</li> <li>: 12.0 WA</li> <li>: 54 dB(A)</li> <li>: Counter-</li> <li>: -10 to +7</li> <li>: -40 to +7</li> <li>: Precision</li> <li>: 220 g</li> <li>: UL/CUR</li> <li>: Vibration frequence</li> <li>3 direction</li> </ul>	25 deg. C POW M ± 10% I n-H <sub>2</sub> O TTS o clockwise viewed 0 deg. C 0 deg. C n ball bearing sy 2/TUV/CE App n of acceleratio cy 5~50~5Hz is a ons(X,Y,Z), in c	d from front of fa ystem rovals n 1.5G and applied in all cycles of 1 minut	te each,			
1-17. Locked Rotor Protection 建準電機工業股份有限公司	<ul> <li>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.</li> <li>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.</li> <li>SPEC.NO D12005980G-00 REVISION DATE 06.29.2013</li> </ul>						
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## MATERIAL

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

:

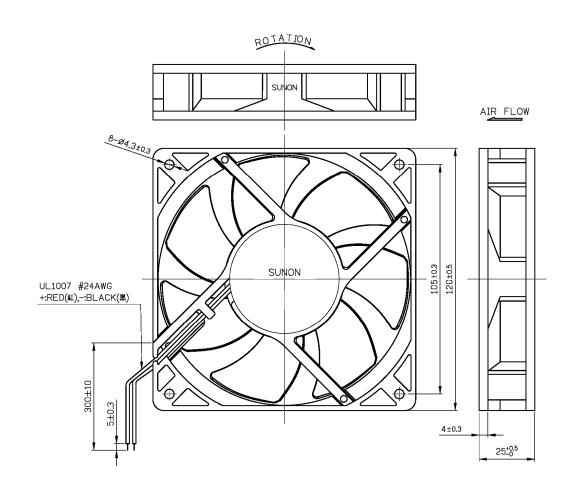
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Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 UL1007,24 awg,+RED,-BLACK

## DIMENSIONS



### **1. Air Flow Direction: Toward label side.**

2. Best Mounting Direction: Any orientation.

UNITS: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 currentfuse 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, H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub>, or Cl<sub>2</sub>.
- 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 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
	Chlorinated Organic Solvent         Lead and its compounds         Cadmium and its compounds         PBBs and PBDEs         PCB and PCT         CP, Short-chain Chlorinated p         Mirex         PCN         Hexavalent Chromium compounds         Asbestos         Organic Tin compounds         Azo compounds         TBBP-A in external case plasti         Nickel in external case parts, whi         Hexabromocyclododecane (HE	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 paraffins C10-13, Cl ≥48 wt%		Forbidden
8	Mirex		Forbidden
9	PCN		Forbidden
10	Hexavalent Chromium compou	inds	<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	SCDD)	<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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单击下面可查看定价,库存,交付和生命周期等信息

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