



DC BRUSHLESS FAN

<b>SPECIFICATIONS</b>
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**MODEL: PMD2412PMB1-A****P/N : (2).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 : 4200 RPM  $\pm$  10%**
- 1-5. Air Delivery : 190 CFM**
- 1-6. Static Pressure : 0.65 Inch-H<sub>2</sub>O**
- 1-7. Rated Current : 760 mA**
- 1-8. Rated Power : 18.2 WATTS**
- 1-9. Noise Level : 54 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 : 330 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.

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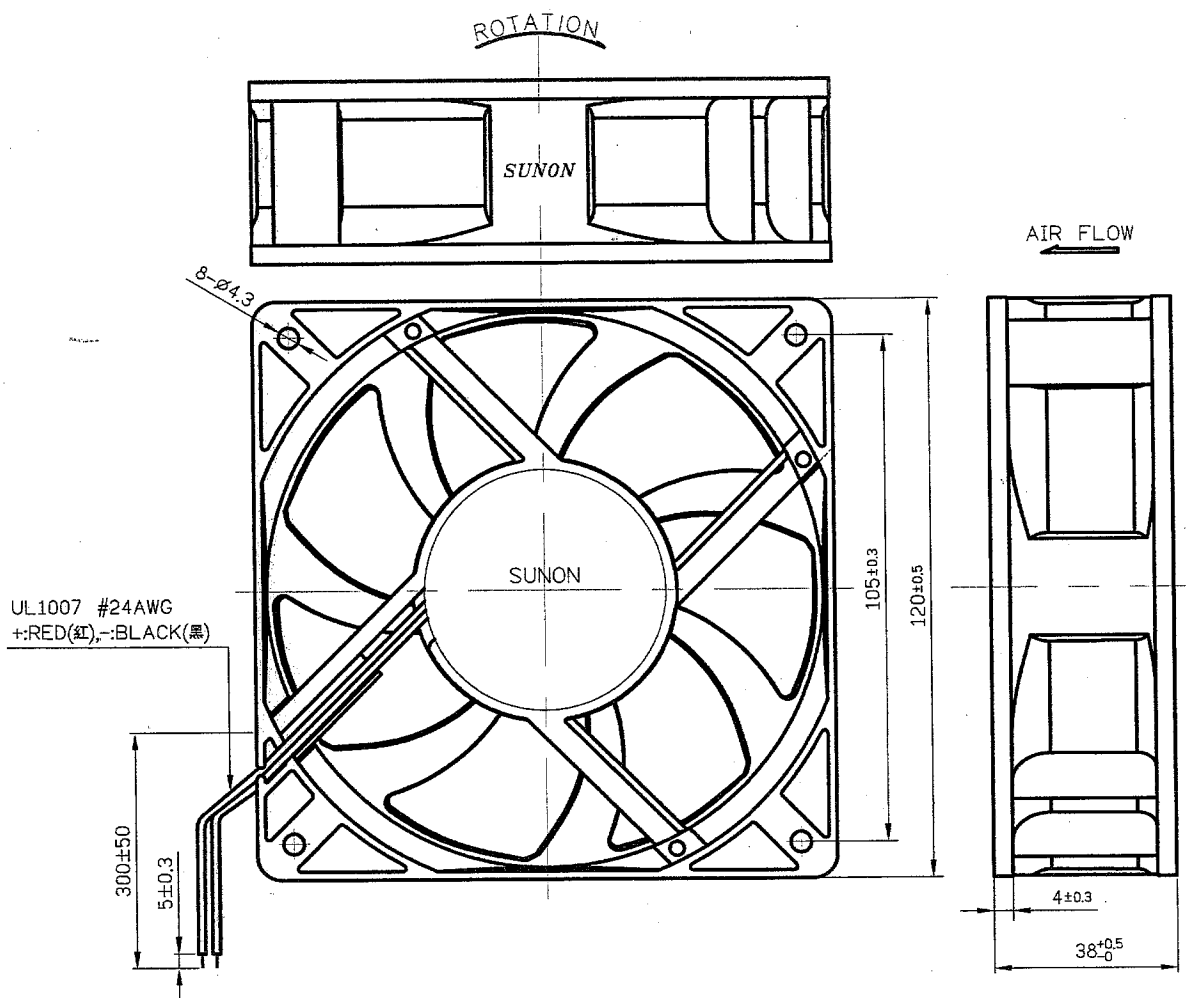
**PERFORMANCE CURVES**

**STATIC  
PRESSURE**

**MATERIAL**

- 2-1. Frame : Thermoplastic PBT of UL 94V-0
- 2-2. Impeller : Thermoplastic PBT of UL 94V-0
- 2-3. Bobbin : Thermoplastic PBT of UL 94V-0
- 2-4. Lead Wire : 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.SUNON will not guarantee this product if your application exceeds the limitations outlined in this specification.**
- 2.There is no thermo-protector installed in this product, such as thermo-fuse, or current-fuse or thermo-protector. There may be smoking, ignition, or electric shock by insulation degradation in cases of motor lock, motor lead short circuit, overload, over voltage, and/or other failure. Please add the protection circuit to your product.**
- 3.There is no reverse-connection prevention diode of VDC ( + ) and GND ( - ) installed in this product. Therefore, if VDC( + ) and GND( - ) are reverse connected, it may cause smoking, ignition, and/or destruction, although these conditions may not manifest immediately. We recommend that a protection device be installed on your product when there is a possibility of reverse-connection.**
- 4.Please verify that this product is being installed and used in compliance with all safety standards. Please inform SUNON of any safety concerns prior to releasing your product to production.**
- 5.Please handle and install this product carefully. Hitting or dropping this product may cause damage.**

## Notes

### II . Specification modification

- 1.SUNON offers engineering assistance on fan installation and cooling system design.
- 2.Any change to the parameters specified in this document will be determined by mutual agreement between both parties. Parameters which are not specified in this specification will be identical to the final sample which has been approved by your company.
- 3.Product will be shipped in accordance with this specification unless SUNON has been previously notified of parameters requiring exception.
- 4.Parameters modified by mutual consent will be incorporated in this specification.
- 5.Please notify SUNON in advance of any modification to your product or new application for this fan which may require a review of this specification.

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## Notes

### 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. Fan holders or bearings may be damaged if touched with fingers or other objects. Additionally, static electricity (ESD) may damage the internal circuits. Please handle this product carefully.
3. Please avoid operating SUNON's product in poisonous material (organic silicon, cyanogens, formalin, phenol, etc.) or corrosive gas environments (H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub>, Cl<sub>2</sub>, etc).
4. SUNON does not warrant performance safety against accidents caused by dust, water, droplets, dew, bugs, etc.
5. Please advise us in advance if you require documents for export.
6. Improper mounting may cause harsh resonance, vibration, and noise. Please mount securely.
7. Safety is a top priority. Please furnish guard accessories to prevent injury to personnel.
8. Unless otherwise noted, all tests are conducted at 25°C ambient temperature and 65% relative humidity.
9. Always ensure that fans are stored according to the storage temperatures specified. Do not store in a high humidity environment. If the fans are stored for more than 6 months, SUNON recommends functional testing before using.
10. SUNON reserves the right to use components with equivalent specifications from multiple sources.

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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.**

