


# SUNON

## SPECIFICATION FOR APPROVAL

**CUSTOMER** :

**MOTOR TYPE** : 

**DESCRIPTION** : **MagLev Motor Fan**

**DIMENSIONS** : **80X80X25 mm**

**M O D E L** : **PMD1208PTV1-A**

**P/N** : **GN**

**SUNON SPEC. NO.** : **D08017180G-00**

**APPROVAL NO.** :

**APPROVED BY** :

(AUTHORIZED)

**DC BRUSHLESS FAN**  
**MODEL : PMD1208PTV1-A**  
**P/N : GN**

**CHARACTERISTICS**

- 1. Motor Design** : DC brushless 4 pole motor design.
- 2. Insulation Resistance** : More than 10M ohm between internal stator and lead wire(+) measured at DC 500V.
- 3. Dielectric Strength** : Applied AC 500V for one minute or AC 600V for 2 seconds between housing and lead wire(+)
- 4. Noise Level** : 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.
- 5. Input Power, Current & Speed** : Measured after continuous 10 minute operation at rated voltage in clean air, and at ambient temperature of 25 degrees C.
- 6. Tolerance** :  $\pm 15\%$  on rated power and current.
- 7. Air Performance** : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.

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<b>SPECIFICATIONS</b>
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**MODEL: PMD1208PTV1-A**

**P/N : GN**

- 1-1. Rated Voltage : 12 VDC
- 1-2. Operating Voltage Range : 6~13.8 VDC
- 1-3. Starting Voltage : 6 VDC (25 deg. C POWER ON/OFF)
- 1-4. Rated Speed : 4700 RPM  $\pm$  10%
- 1-5. Air Delivery : 60 CFM
- 1-6. Static Pressure : 0.43 Inch-H<sub>2</sub>O
- 1-7. Rated Current : 0.42 AMP
- 1-8. Rated Power : 5.0 WATTS
- 1-9. Noise Level : 46 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 : 100 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.

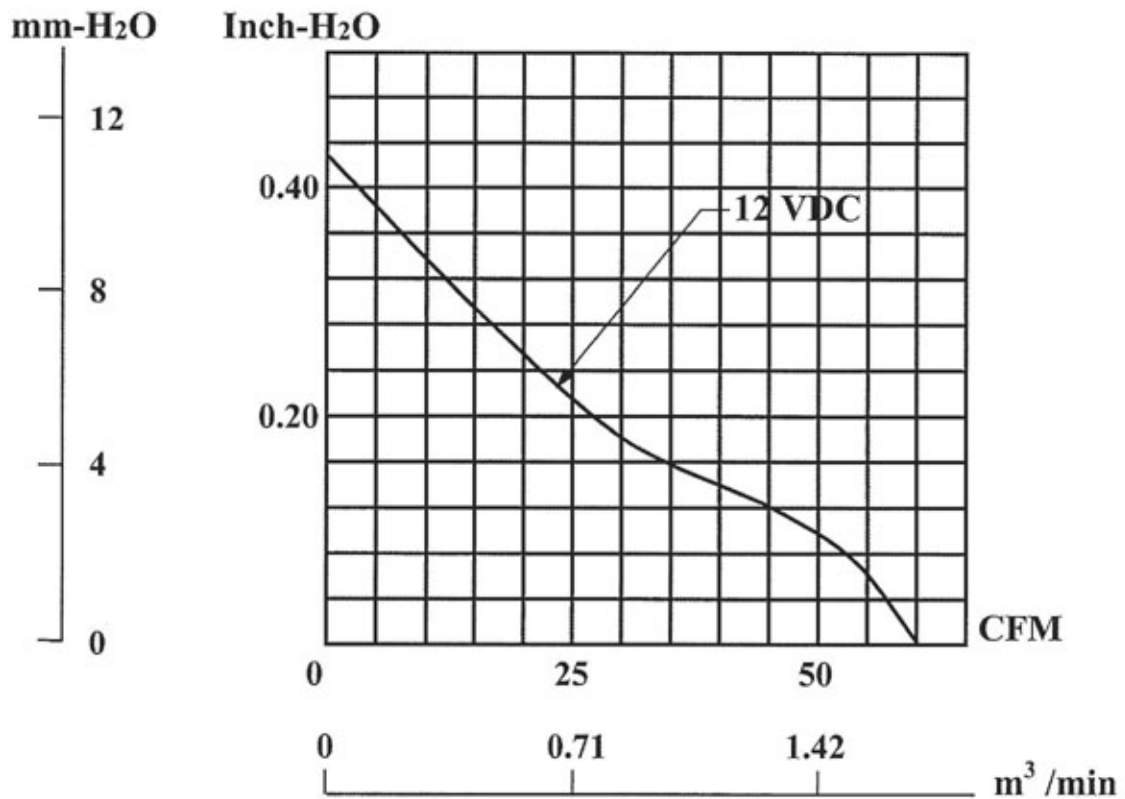
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**PERFORMANCE CURVES**

**STATIC  
PRESSURE**

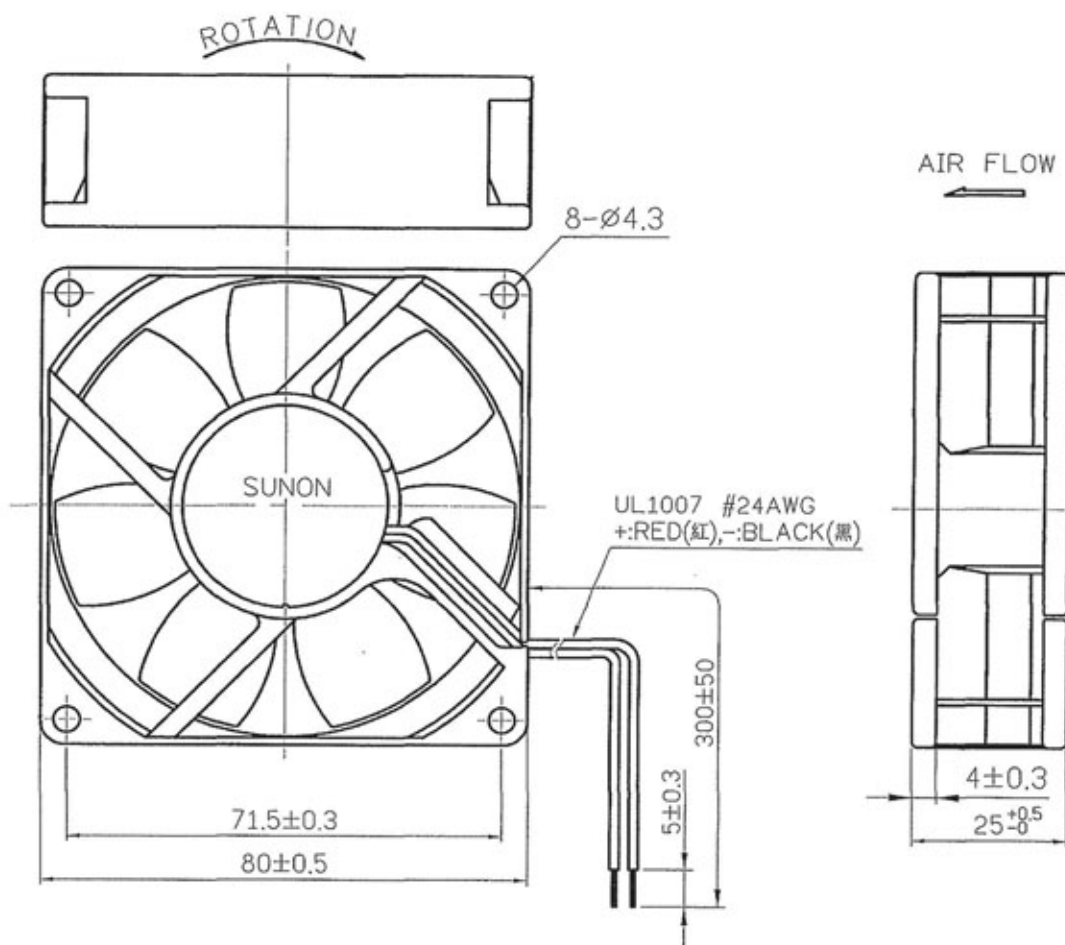


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**MATERIAL**

- 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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