

#### SPECIFICATION FOR APPROVAL

**CUSTOMER** 

:

**DESCRIPTION** 

DC BRUSHLESS FAN

**DIMENSIONS** 

: 60X60X15 mm

MODEL

KDE1206PHB2

APPROVED NO

:

**APPROVED BY** 

(AUTHORZIED)



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建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

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#### DC BRUSHLESS FAN

**MODEL: KDE1206PHB2** 

#### **CHARACTERISTICS**

1. Motor Design

Patented single-coil DC brushless 4 poles motor

design.

2. Insulation Resistance

More than 500M ohm between internal stator and

lead wire(+) measured by 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 an semi-anechoic chamber

with background noise level below 15

dB(A). The fan is running in free air with

microphone at a distance of one meter

from the fan intake.

5. Input power, Current & Speed

Measured after continuous 30 minutes

operation at rated voltage in clean air

at ambient temperature of 25 degrees C.

6. Tolerances

±15% on rated power and current.

7. Motor Protection

Polarity protected & Locked rotor protected.

8. Air Performance

Measured by a double chamber. The value are recorded when the fan speed is stabilized

at rated voltage.

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### **SPECIFICATIONS**

#### MODEL:KDE1206PHB2

1-1. Rated Voltage : 12 VDC

1-2. Operating Voltage Range : 10.2-13.8 VDC

1-3. Starting Voltage : 10 VDC

1-4. Rated Speed : 4200 RPM ± 400 RPM

1-5. Air Delivery : 18.5 CFM

1-6. Static Pressure : 0.15 Inch-H<sub>2</sub>O

1-7. Rated Current : 0.16 AMP

1-8. Rated Power : 1.9 WATTS

1-9. Noise Level : 31.5 dB(A)

1-10. Direction of Rotation : Counter-clockwise viewed front fan blade

1-11. Operating Temperature : -10 to +70 Deg.C

1-12. Storage Temperature : -40 to +70 Deg.C

1-13. Bearing System : Precise ball bearing system

1-14. Weight : 45g

1-15. Safety : UL/CSA/TUV Approvals

1-16. Vibration

: Vibration of acceleration 1.5G and
Frequency 5~50~5Hz is applied in the
3 directions(X,Y,Z) for 30 minutes, each

Direction at the cycle of 1 minute.

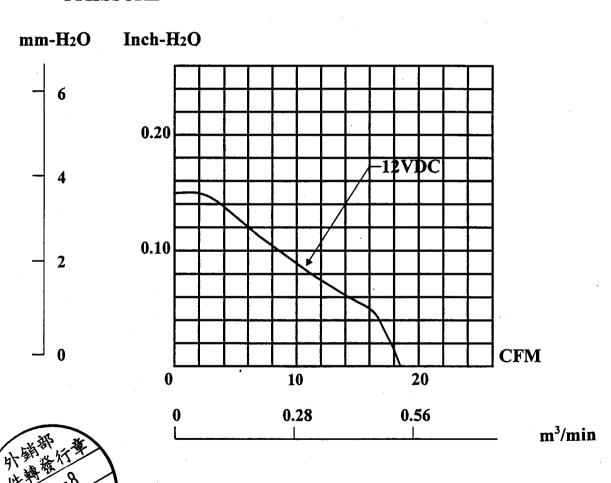
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MODEL: KDE1206PHB2

## PERFORMANCE CURVES

STATIC PRESSURE



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### **MATERIAL**

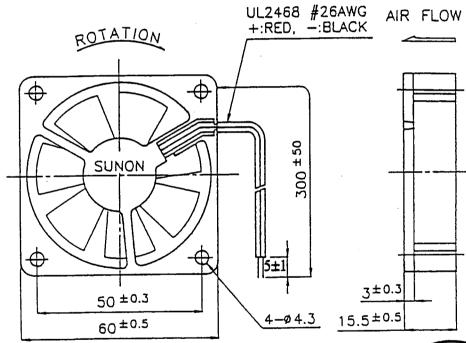
2-1. Frame : Thermoplastic PBT of UL 94V-0

2-2. Impeller : Thermoplastic PBT of UL 94V-0

2-3. Bobbin : Thermoplastic PBT of UL 94V-0

2-4. Lead Wire : UL2468,26AWG,+RED;-BLACK

## **DIMENSIONS**



1.Air Flow Direction: Label side.

2. The Best Mounting Direction: In any orientation.

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# Notes



- 1. SUNON will not guarantee the products if the application of our products is exceeded the limitation which is specified on this specification.
- 2. In case of change of the specification specified on this document, a written notice is requested in advance.
- 3. Please do not touch the impeller with pressure and never bring the fan with lead wire. The bearings and lead wire may be damaged.
- 4. No guarantee on the products against the safety problem or failure caused by powder dust, drop of water or insect.
- 5. If there is any data or related documentation different from this data sheet, this data sheet is the principal reference.
- 6. For the purpose of MIS, please indicate SPEC No. on every order.
- 7. In case of the fan has no polarity protection function, wires with same color (electrode) must be connected together during the assembly. (i.e. red + red, black + black) or the fan will be damaged immediately.
- 8. Please do not use the fan in the environment of corrosive gas or liquid or any detrimental gas.
- 9. Please do not store the fan in the environment of high / low temperature, high humidity or any detrimental gas. Please store the fan within 6 months, every 6 months, there shall be a linkage of electric current to the fan, even though the fan is stored in room temperature.
- 10. While the fan is in operation, please do not lock the fan intentionally for a long period of time, since the continuous stoppage will result in over-heat and thus burn-out of the fan.
- 11. During the installation of the fan, please pay substantial attention to possible noise cause by resonance vibration and vibration.
- 12.During the testing of the fan, please be sure to use finger guard to insure safety.

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