

Approval Sheet

Customer: _____

Customer P/N: _____

Model No: DFH6025B

Customer Approval	
Approval	Check

Doc. No:	YP-1709129	Approval by	Check by	Prepared by
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Model No. :	DFH6025B	Sample Attached:	0 pcs
Safety Approvals:	CE		

SPECIFICATION

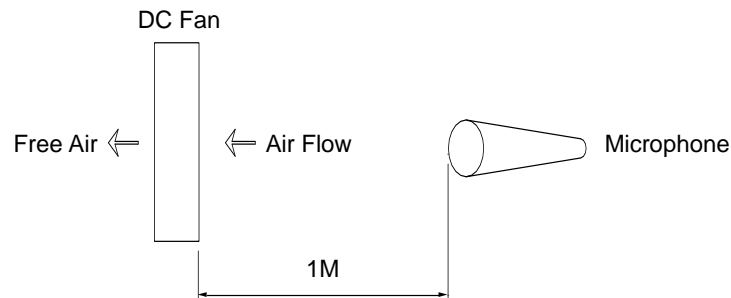
<u>Item</u>	<u>Unit</u>	<u>Specification</u>	<u>Condition</u>
* Dimension	mm	60*60*25	L*W*Thickness
* Bearing Type	-----	Ball Bearing	-----
* Rated Volt	Volt	12.0	-----
* Operating Voltage	Volt	10.8~13.2	-----
* Start-up Voltage	Volt	6.0(On/Off)	Nominal
* Rated Current	Amp	0.33 (实测 0.24A±0.02A)	At rated Volt
* Power Consumption	Watt	3.96	At rated Volt
* Rated Speed	RPM	6800±10%	At rated Volt
* Max. Air Flow	CFM	35.83	In Free Air
* Max. Static Air Pressure	mm-H2O	13.60	When Air Flow=0
* Noise Level	dBA	40.8(Max)	At rated Speed
* Motor Protection	----	Reversed Polarity	-----
* Other Features	Tacho Signal	Yes	
	Auto-restart	Yes	
	Thermal Control	No	
	PWM Control	No	
	RD signal Control	No	
	Build-in LED	No	
	IP55	No	-----
* Connection Lead	Lead Wire	L=300mm /UL1007/24AWG	National standard line
	Housing	No terminal /3L (YE/R/BK)	Alternative
* Life Expectancy	Hours	50000	25°C
* Plastic Material	----	PBT 94V-0	----
* Net Weight	Gram	60.0g/pcs (w/o Connector)	----
* Insulation class		Class A	

1. Characteristics Definition:

- * Rated current, rated speed and rated input power shall reach bottom line of specification after 3 minutes continuous rotation at rated voltage and reach standard specification after 5 minutes continuous at rated volt.
- * Starting voltage is the least voltage that enables to start the fan by sudden power on.
- * Operating temperature at $-10^{\circ}\text{C}\sim+70^{\circ}\text{C}$. Storage temperature at $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$.
- * Insulation resistance at least $10\text{M}\Omega$ at 500VDC between housing and both lead wires.
- * Dielectric strength withstands 500VAC 1 minute 1mA between housing and both lead wires.
- * Life expectancy (MTBF) continuous operation at rated voltage and normal temperature & humidity.
- * Connector will not be any broken at 1Kg for 15 seconds per piece.

2. Acoustic Sound Level Test Descriptions:

- * At rated voltage in sound proof room background noise: 17dBA (maximum)

**3. Others:**

- * We will not guarantee the products if the applications of our products are exceeded the limitation which is specified on this specification.
- * In case of changes of the specification specified on this document. A written notice is requested in advance.
- * No guarantee on the products against the safety problem or failure caused by powder dust, drop of water or insect.
- * If there is any data or related documentation different from this data sheet. This data sheet is the principle reference.
- * Please do not use the fan in the environment of corrosive gas or liquid or any detrimental gas.
- * Please do not store the fan in the environment of high/low temperature, high humidity or detrimental gas. Please store within six months, every six months, shall be a leakage of electric current to the fan, even though the fan is stored in room temperature. While the fan is in operation, please do not lock the fan intentionally for long periods of time, since the continuous stoppage will result in overheat and thus burnt out the fan.
- * During the installation of the fan, please pay substantial attention to possible noise caused by resonance vibration and shock.
- * It is very important to notify that avoid to drop from 0.6 meter height when in any movement or operation, it will impact the balance of blade. Especially ball bearing structure is avoided to drop down.
- * The torque of the screw which locked the frame should not exceed $4\text{Kg}\cdot\text{f}$.
- * All of test instruments should contact smoothly on the ground otherwise will cause fan interference or damage.
- * Please be careful that revolution signal lead wire shall not have any voltage directly applied. It should damage inner circuit
- * Noise:Static listen at three sides,there is not any sound except the cutting wind sound.

4. Major Material List

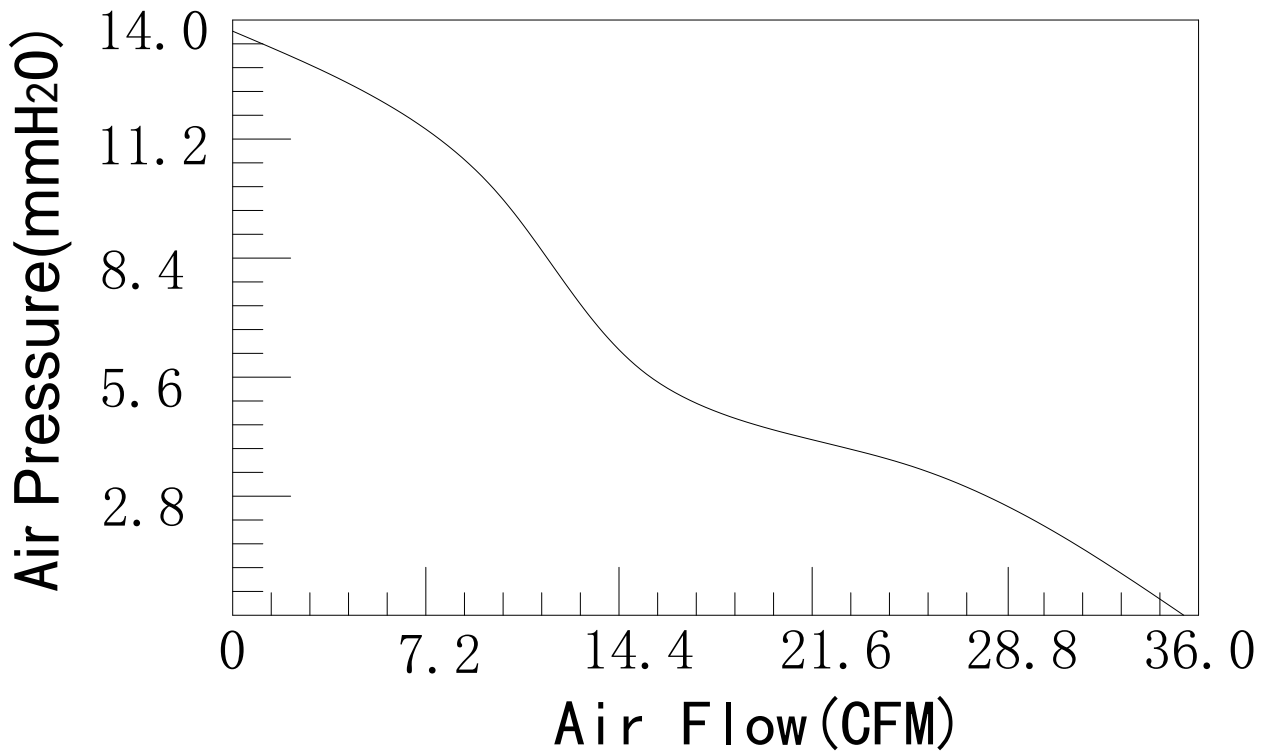
Item	Major Component	Material & Specification	Grade	Remark
1	Fan Frame	PBT 70% + Fiber 30%	94V-0	
2	Fan blade	PBT 70% + Fiber 30%	94V-0	
3	Shaft	Stainless steel (SUS420F)		
4	Bearing	Ball bearing		
5	Rubber magnet	Strontium ferrite		
6	Silicon steel strip	(H23)		
7	Enameled copper wires	Material & Specification 0.04 ~ 0.20mm	MW-2 UEW	Heat Resistance 120°C
8	Printed Circuit Board	Wiring printed single layer board	94V-0	
9	Lead wires	Polyvinyl Chloride enameled copper wires (AWG26~32)	94V-0	Red wire: + polarity Black wire: - polarity Yellow wire: FG
10	Label	Polyester		
11	Connector housing		94V-0	

The above materials fits UL requirements

5. The Criteria of Content of Above Mentioned Material As Below:

Seq.	Material / Substance	Standard Reference	Content Criteria
1	Pb	RoHS	< 1000ppm
2	Hg	RoHS	< 1000ppm
3	Cd	RoHS	< 100ppm
4	CrVI	RoHS	< 1000ppm
5	PBB	RoHS	< 1000ppm
6	PBDE	RoHS	< 1000ppm

6. P&Q Curve:



Test Condition:

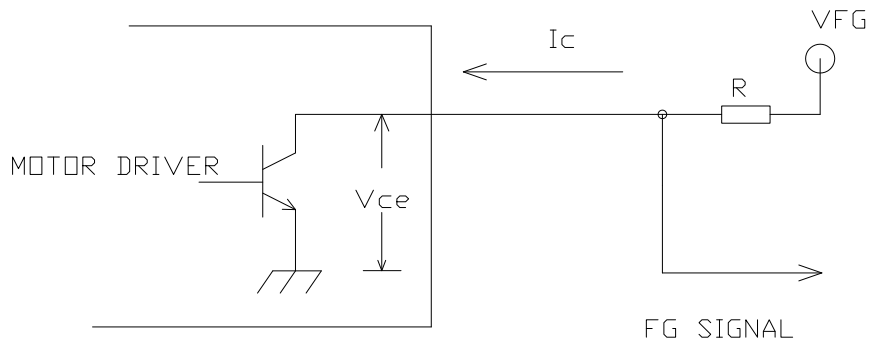
Input Voltage: Operation Voltage
 Temperature: Room temperature
 Humidity: 65%

7. The label letter of alphabet code function :

Sequence Number	Function Item	Function Code
1	Two lines	A
2	Two lines+Auto-restart	B
3	Three lines+FG	C
4	Three lines+Auto-restart + FG	D
5	Three lines+Auto-restart + RD	E
6	PWM	F
7	Two lines+IP55	G
8	Two lines+Auto-restart+IP55	H
9	Three lines+FG+IP55	I
10	Three lines+Auto-restart + FG+IP55	J
11	Three lines+Auto-restart + RD+IP55	K
12	PWM+IP55	L
13	Two lines+ IP57	M
14	Two lines+Auto-restart+ IP57	N
15	Three lines+FG+ IP57	P
16	Three lines+Auto-restart + FG+IP57	Q
17	Three lines+Auto-restart + RD+IP57	R
18	PWM+IP57	S

11. ROTATION DETECT (FG) SIGNAL:

* OUTPUT CIRCUIT – OPEN COLLECTOR MODE:

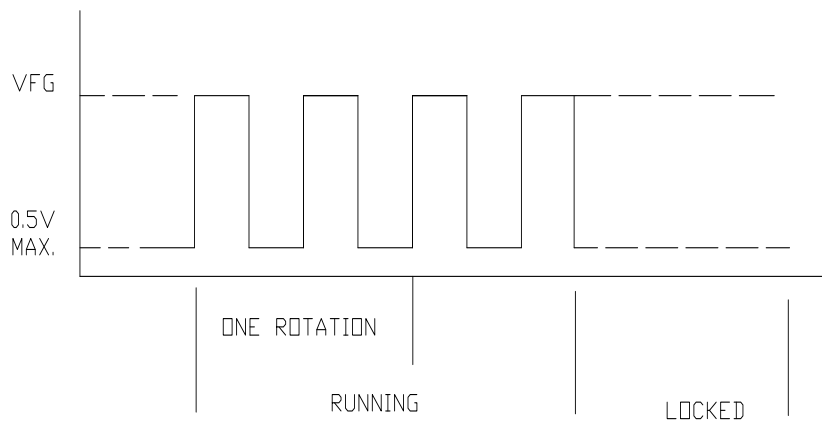


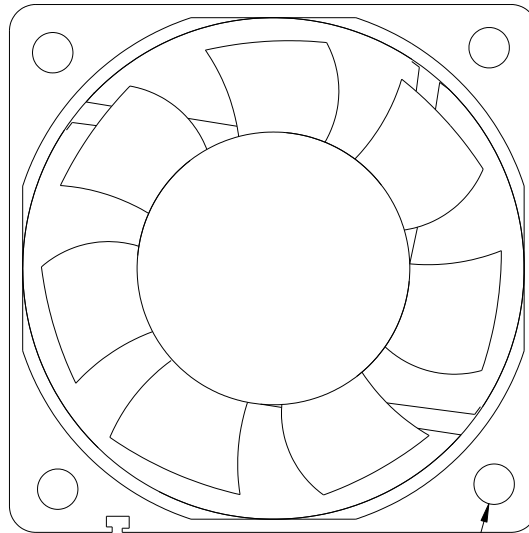
AUTION: THE FG SIGNAL LEAD WIRE MUST BE KEPT AWAY FROM
"+" LEAD WIRE & "-" LEAD WIRE.

* SPECIFICATION:

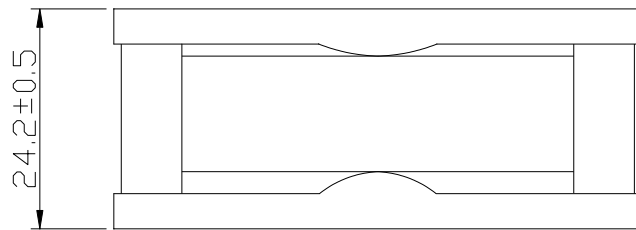
$V_{CE(sat)} = 0.5V \text{ MAX.}$ $V_{FG} = 13.2V \text{ MAX}$
 $I_C = 10mA \text{ MAX.}$ $R \geq V_{FG}/I_C$

● FG SIGNAL WAVEFORM:

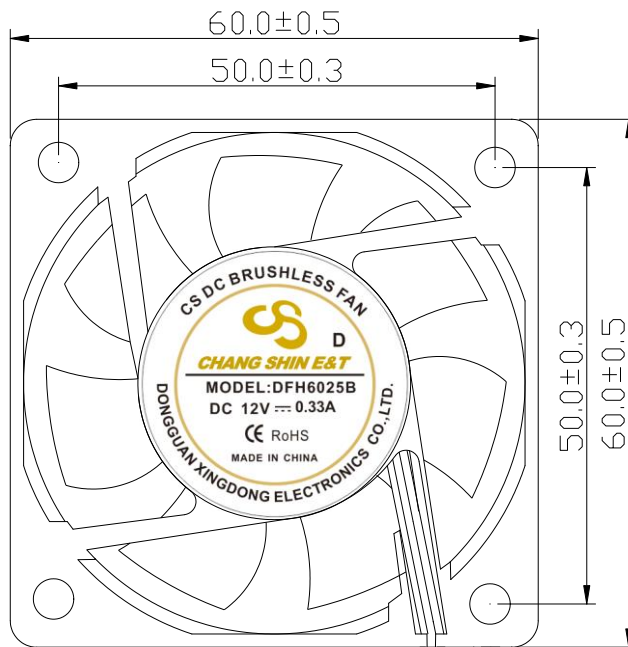




4- ϕ 4.4 \pm 0.3



24.2 \pm 0.5



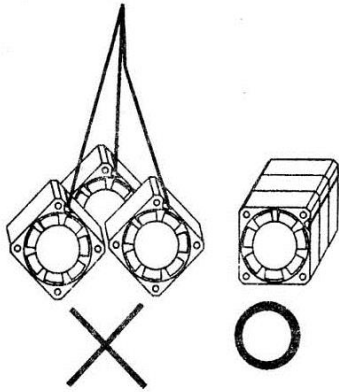
- (-)BLACK/UL1007/24AWG
- (+)RED/UL1007/24AWG
- (FG)YELLOW/UL1007/24AWG

300 \pm 10

Unit: mm

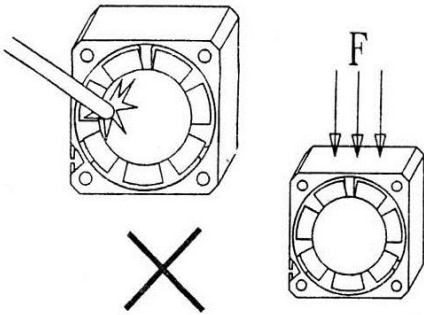
風扇使用注意事項

★ HOW TO HANDLE FAN PROPERLY?



1. 取用風扇，輕取外框兩側，不可拉扯導線。

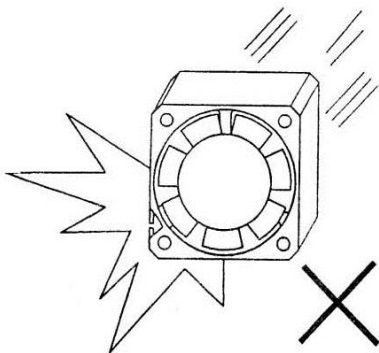
1. Hold the fan by frame side. Do not hold lead wires to support the fan.



2. 取用風扇，不可碰觸或擠壓扇葉與外框。

2. No touching or pressing on the impeller hub.

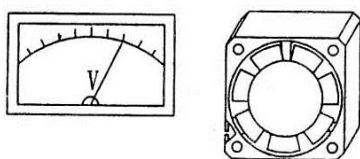
Avoid crushing the frame side.



3. 風扇嚴禁掉落地面，或敲擊外框任何面。

3. Do not drop on the ground.

Do not pound on the frame side.



4. 風扇電源需依照規格電壓安裝使用。

4. Connect leads properly and apply voltage according to specification.