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REF. No.		
APPROVED DATE 研發處 2009-11-26. 領文榮	CHECKED DATE 研發處 7009 11·26. 黄建零	PREPARED DATE 研發處 11-25. 黃淑慧
MODEL No. AD0624HB-A70GL P.S. (T) DESCRIPTION: DC FAN (RoHS) REV. D ID No.		
THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY. UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY		

KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY



SIGNED AS YOUR CONFIRMATION OF SAME.







ADDA ADDA CORPORATION

BRUSHLESS AXIAL COOLING FANS.

Printed on: 09/11/25

Ref: (RoHS) Customer

: AD0624HB-A70GL P. S:(T) ADDA Model No.

Samples attached: piece(s)

Safety Approval : UL, CUL, CSA, TUV, CE TUV:EN 60950-1:2001+A11

UL:UL507

CSA:C22.2 NO 113-M1984 CE:EN 61000-6-1:2007 EN 61000-6-3:2007

Specifications

ITEM

SPECIFICATION / CONDITION

60x60x25DIMENSIONS mm

BEARING TYPE BALL

VDC RATED VOLTAGE 24.0

VDC - 26.4 VDC 21.6 OPERATING VOLTAGE RANGE

VDC, NORMAL 17.0 START-UP VOLTAGE

0.100 Amp. REAL CURRENT

2,400 REAL POWER Watt.

Amp. + 10% MAX RATED CURRENT 0.150

3.600 Watt. RATED POWER

RATED SPEED

4500 RPM ± 10% (IN FREE AIR AT RATED VOLTAGE) 24.485 CFM (min : 22 000 24.485 CFM (min.: 22.036 CFM) 0.692 CMM (min.: 0.622 CMM) (IN FREE AIR AT RATED VOLTAGE) AIR FLOW AIR FLOW

0.201 Inch H20 (min.: 0.162 Inch H20) 5.105 mm H20 (min.: 4.135 mm H20) STATIC AIR PRESSURE STATIC AIR PRESSURE

(IN FREE AIR AT RATED VOLTAGE) NOISE LEVEL $36.0 \, dB(A)$ $(\max.: 40.0 dB(A))$

BY IMPEDANCE MOTOR PROTECTION

POLARITY PROTECTION NO

CONNECTION LEAD TYPE WIRE , AWG#24

70000 Hours at 40 ℃ / 65% LIFE EXPECTANCY

53 Gram. NET WEIGHT

PACKING 300 pcs. per Export Carton

Unless otherwise stated, the relative humidity is 65%, and the temperature is $25\,^{\circ}\mathrm{C}$ for the standard testing.

Should you have any doubt, please refer to the environmental conditions

specified in the acknowledgement document.

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SPECIFICATION

1 · 0 SCOPE

- 1.1 If the information or other related document is inconsistent with this acknowledgement document, please refer to the acknowledge document.
- 1.2 This documentation defines the mechanical & electrical characteristics of DC brushless fans.
- 1.3 The specification of this product is described in details in the acknowledgement document. No guarantee is given to our product under the use of over specifications.
- 1.4 For any change or amendment to the specifications, such change will be noticed in writing beforehand.
- 1.5 If the product is used on the MIS system, please specify the specification in the purchase order.

2 · 0 MATERIAL

2 · 1 Frame : UL94V-0 Glass Filled polyester (P.B.T) 2 · 2 Fan Blade : UL94V-0 Glass Filled polyester (P.B.T)

2 · 3 Bearing Sys. : () Sleeve, oil impregnated.

(V) Two Ball Bearing() One Ball one Sleeve() Hypro Bearing

() FDB Bearing 2 · 4 RoHS : (V) YES HF : () YES

3 · 0 DIMENSIONS & CONSTRUCTION

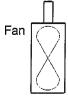
All dimensions, Direction of rotation and air flow were specified as per drawing attached.

4 · 0 CHARACTERISTICS & DEFINITION

- 4 · 1 All rated characteristics were specified as per data sheet enclosed.
- 4 · 2 Rated Current : Rated Current shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 3 Rated Speed : Rated Speed shall be measured after 3 minutes. of continuous rotation at rated voltage.
- 4 · 4 Start Voltage : The voltage which is able to start the fan to operate by suddenly switching 'ON'.
- 4 · 5 Input Power : Input Power shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 6 Locked Rotor Current: Locked current shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in clean air.
- 4 · 7 Air Flow & Static Pressure: The air flow data and static pressures should be determined in accordance with AMCA-210 standard or DIN24163 specification in a doublechamber testing with intake side measurement.
- $4\cdot 8$ Noise Level : The measurement of noise level is carried out with reference to CNS8753 in an anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air .

NOISE LEVEL MEASUREMENT





Direction of air flow



<----- 1 mtr. -----

ADDA CORPORATION

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5.0 MECHANICAL INSPECTION

5.1 Rotation Direction

Counterclockwise when look into impeller side.

5.2 Protection

All fans have integrated protection against locked rotor condition so that there will be no damage to winding or any electronic component.

Restarting is automatic as soon as any constraint to rotation has been released.

As fan placed at dead angle position, and the switch was changed from off to on. Restarting was automatic normal as soon as and proved that this fan is good fan.

5.3 Locked Rotor Protection

No damage shall be found after 72 hours continuously at condition of rotation locked. Restarting is automatic as soon as constraint to running has been released.

- 5.4 Avoid the damage, check the correct voltage and proper polarity before connecting with power.
- 5.5 Free Drop Shock

In minimum package condition, the fan should withstand drops on any three faces from a height of 30cm onto a wood board of 10mm thick.

- 5.6 Please do not stick a grease and/or an oil to the fan housing or blade which may have a harmful influence by a chemical reaction at high humidity.
- 5.7 If the fan is reinstalled, please pay special attention to the noise due to the vibration (or resonance).
- 5.8 During the testing of the fan, please make sure the finger guard is used for safety.

6.0 ELECTRICAL INSPECTION

6.1 Insulation Resistance

Not less than 10M ohm between housing and positive end of lead wire (red) at 500V DC.

6.2 Dielectric Strength

No damage should be found at 500 VAC for 60 seconds, measured with 1mA trip current between housing and positive end of lead wire.

6.3 Life Expectancy

The continous duty life at given temperature after which, 90% of testing units shall still be running.

6.4 While the fan is running, do not intentionally lock the fan for a long time since the overheating of the motor produced by the long-time locking will damage the fan.

7.0 ENVIRONMENTAL

- 7.1 Improper use such as disassembling the fan, being covered with dust, or dipping the fan in water that results in defects is not covered in the warranty. Do not use the fan in the environment with corrosive air or liquid.
- 7.2 Operating Temperature / Humidity

-10°C to +70°C at humidity 65%+/-20% RH.

7.3 Storage Temperature

All function shall be normal after 500 hours storage at -40° C to +70 $^{\circ}$ C with a 24 hour recovery period at room temperature.

7.4 Humidity

After 96 hours, 95% RH, 40+/-2℃ per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

7.5 Do not place or store the fan in the environment with high/low temperature/humidity. Do not store the fan for over 6 months; even if the fan is stored in room temperature for over 6 months, the fan may have the electric current leakage.

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ADDA CORPORATION

SPECIFICATION

8.0 **REMARKS**

- 8.1 Material and construction are subject to change without advance notice. The changes should be within specification.
- 8.2 All fans shall meet the quality inspection under sampling plan MIL-STD-105E as follow:

Critical Maior

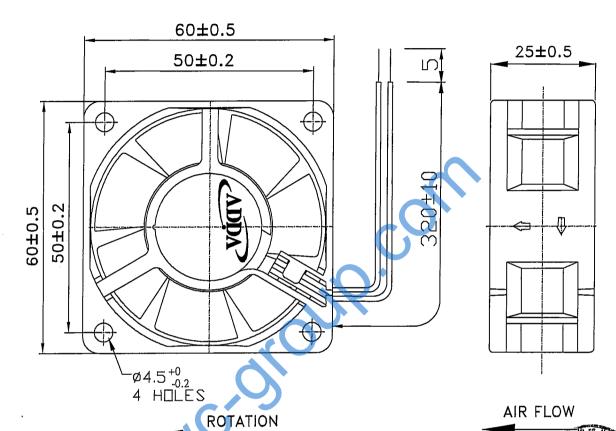
0.25%

1.00%

Minor

2.50%

OUTLINE STYLING & DIMENSIONS 9.0



LEAD WIRES: UL 1007, AWG24, L = 320 +/- 10 mm Red = positive; Black = negative.

10.0 Notes:

10.1 Please do not touch and push Fan Blade with fingers or others, fan blade and ball bearings may be damaged and it causes noise defect.

10.2 Do not carry the fan by its lead wires.

10.3 If the fan does not have the polarity protection function, the connection of the colored wires should be red + red, and black + black, or else the fan will be damaged in no time.

10.4 For the models without reverse connection of polarity protection, please do not

connect the lead wire in reverse

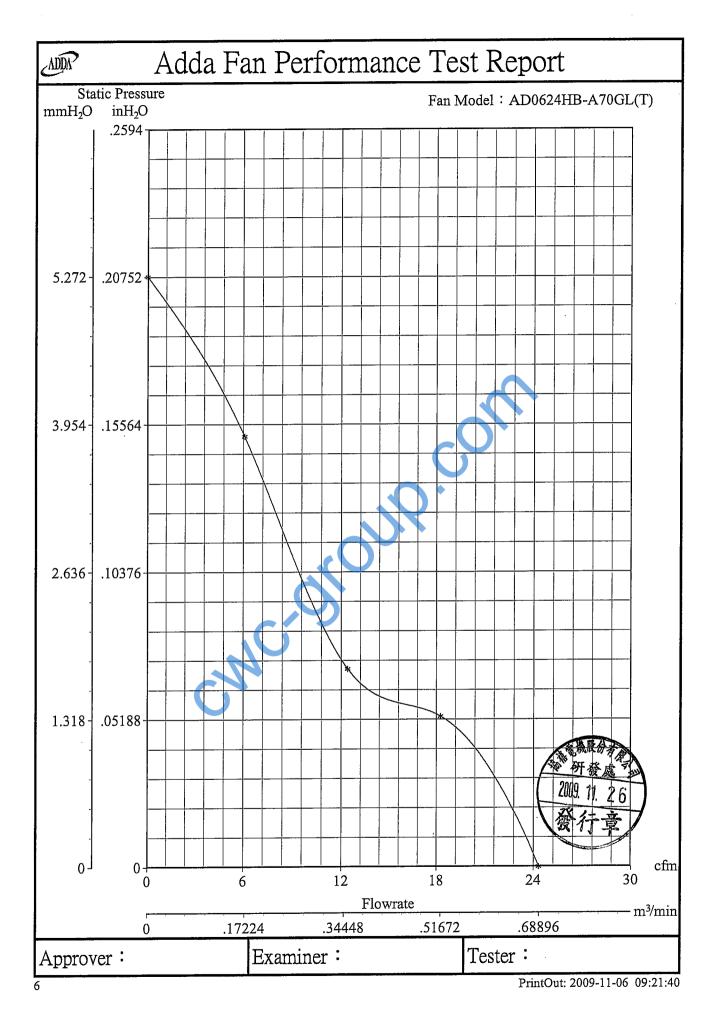
10.5 Please don't install this fan in series with 2x voltage inputs. For example, if a single fan rated

at 12V, then don't install two of them in series with 24V input.

10.6. Every specific fan is designed for its certain application (project). Therefore, if you want to use this fan in other application (project), please inform ADDA first so that we can confirm whether there is any issue which might be incurred from the reason of this different application (project) or not.

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Zertifikat

Certificate



Zertifikat Nr. Certificate No. R 50068602

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Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue (day/mo/yr)

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12031916

ZTW2-MRC- 11005418 015

09.05.2006

Genehmigungsinhaber License Holder

Adda Corporation

6, East Section, Industry 6 Road

Pingtung City 900

Taiwan, R.O.C.

Fertigungsstätte Manufacturing Plant

Adda Corporation

6, East Section, Industry 6 Road

Pingtung City 900

Taiwan, R.O.C.

Priifzeichen Test Mark

BAUART

TÜV Rheinland Product Safoty

GEPRÜFT TYPE APPROVED Geprüft nach Tested acc, to EN 60950-1:2001+A11

Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification) Lizenzentgelte - Einheit License Fee - Unit

Ventilator (DC Fan)

Wie Blatt (As Page) 01

Ergänzung (Addition)

Bezeichnung : ADZ1Z2Z3Z4-Z5Z6Z7Z8

(Type Designation)

Z1 steht für (stands for) : 20,02/03,35,04,45,05,50,

06, 07, 08, 09, 12 oder (or) 75

05, 12, 24 oder (or) 48 Z2 steht für (stands for)

H, M, L oder (or) D Z3 steht für (stands for)

B, S oder (or) X Z4 steht für (stands for)

A, C, D, F, J, K, Q, R, Y oder Z5 steht für (stands for)

(or) G

Z6 steht für (stands for) : 5, 7, 9, A, B oder (or) C

Z7 steht für (stands for) : 0, 1, 2, 3, 4, 6, 8, A oder

(or) B

freibleibend (blank) oder (or) Z8 steht für (stands for) :

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Priif- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

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The Control of the Co



Dipl.-Ing. B. Scheirer