SPECIFICATION FOR APPROVAL
TO :
蘭文祭 李文琦 史正田 黄淑慧 MODEL No. <u>AD0524MB-G70</u> P.S. (T) DESCRIPTION: <u>DC FAN (RoHS)</u> REV. <u>C</u> 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.
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# DATA-SHEET

Engineering

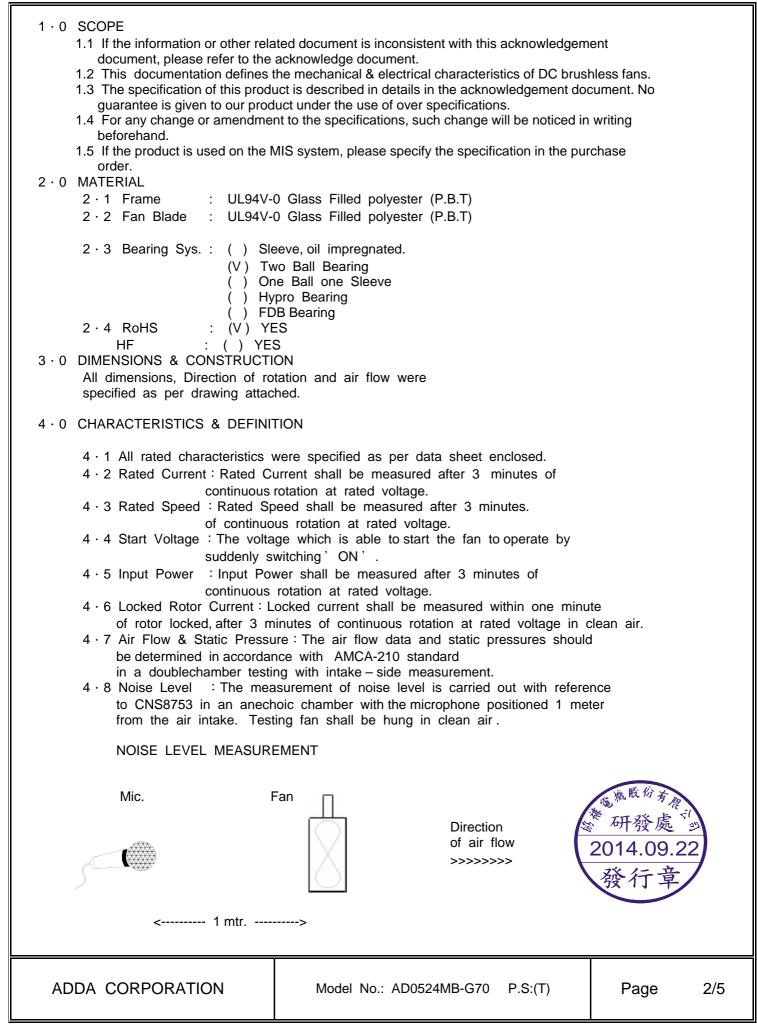
Printed On:

## 14/09/22

# BRUSHLESS AXIAL COOLING FANS

Customer	:	Ref: (RoHS
Adda Model No	: AD0524MB-G70 P.S: (T)	
Samples attached	: Piece(s),	
Safety Approval	: UL,CUL,TUV,CE TUV:EN 60950-1:200 UL:UL507 CE:EN 61000-6-1:20 EN 61000-6-3:2007+	07
Specifications		
ITEM	SPECIFICATION / CONDITION	
DIMENSIONS	: 50x50x10 mm	
BEARING TYPE	: BALL	
RATED VOLTAGE	: 24.0 VDC	
OPERATING VOLTAGE RANGE	: 21.6 VDC – 26.4 VDC	
START-UP VOLTAGE	: 17.0 VDC , NORMAL	
REAL CURRENT	: 0.045 Amp	
REAL POWER	: 1.080 Watt	
RATED CURRENT	: 0.10 Amp + 10 %MAX	
RATED POWER	: 2.40 Watt	
RATED SPEED	: 4300 RPM ± 15 %	
	(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	<sup>:</sup> 9.000 CFM (min.: 7.650 CFM)	
AIR FLOW	<sup>:</sup> 0.254 CMM (min.: 0.215 CMM)	
	(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	: 0.080 Inch H <sub>2</sub> O (min.: 0.057 Inch H <sub>2</sub> O)	
STATIC AIR PRESSURE	2.032 mm H <sub>2</sub> O (min.: 1.468 mm H <sub>2</sub> O)	
	(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL	<sup>:</sup> 24.0 dB (A) (max.: 28.0 dB(A))	
MOTOR PROTECTION	: BY IMPEDANCE	
POLARITY PROTECTION	: NO	
CONNECTION LEAD TYPE	: WIRE, AWG# 26	
LIFE EXPECTANCY	: 70000 Hours at 405 $^\circ\!\!\mathbb{C}$ / 65% RH	
NET WEIGHT	: 18 Gram.	
PACKING	: 480 pcs. Per Export Carton.	价大
Unless otherwise stated, the relative h	umidity is 65%, and the temperature is $25^{\circ}$ C	IN to SI
for the standard testing.	umidity is 65%, and the temperature is $25^{\circ}$ C	發處 当
Should you have any doubt, please ref	er to the environmental conditions specified in the	.09.22
acknowledgement document.	發行	行章/
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ADDA CORPORATION	Model No.: AD0524MB-G70 P.S: (T)	Page 1/5

## SPECIFICATION



#### 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. 2 Dielectric Strength

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  $-40^{\circ}$ C to  $+70^{\circ}$ C with a 24 hour recovery period at room temperature.

7.4 Humidity

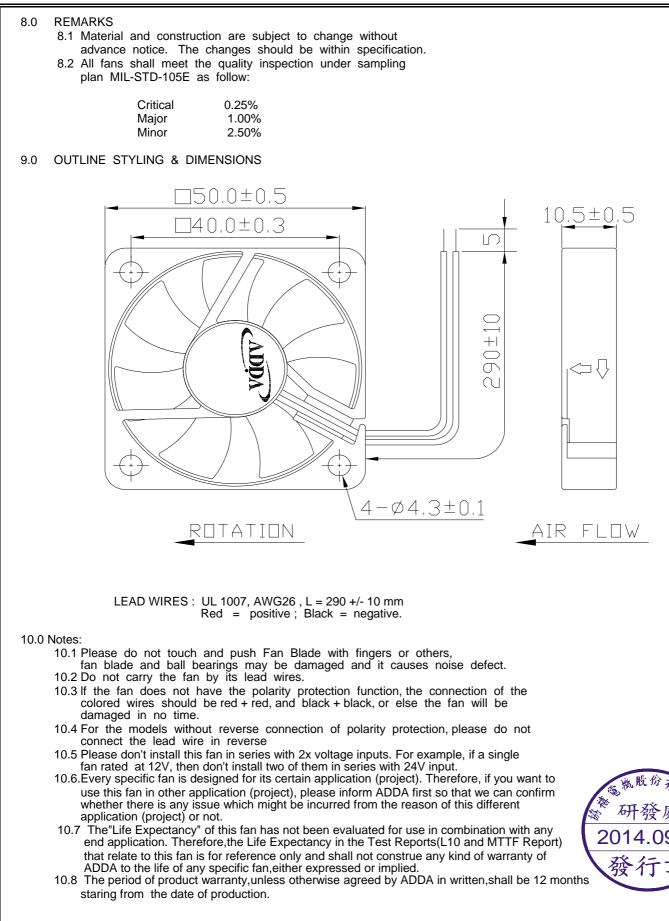
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

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.



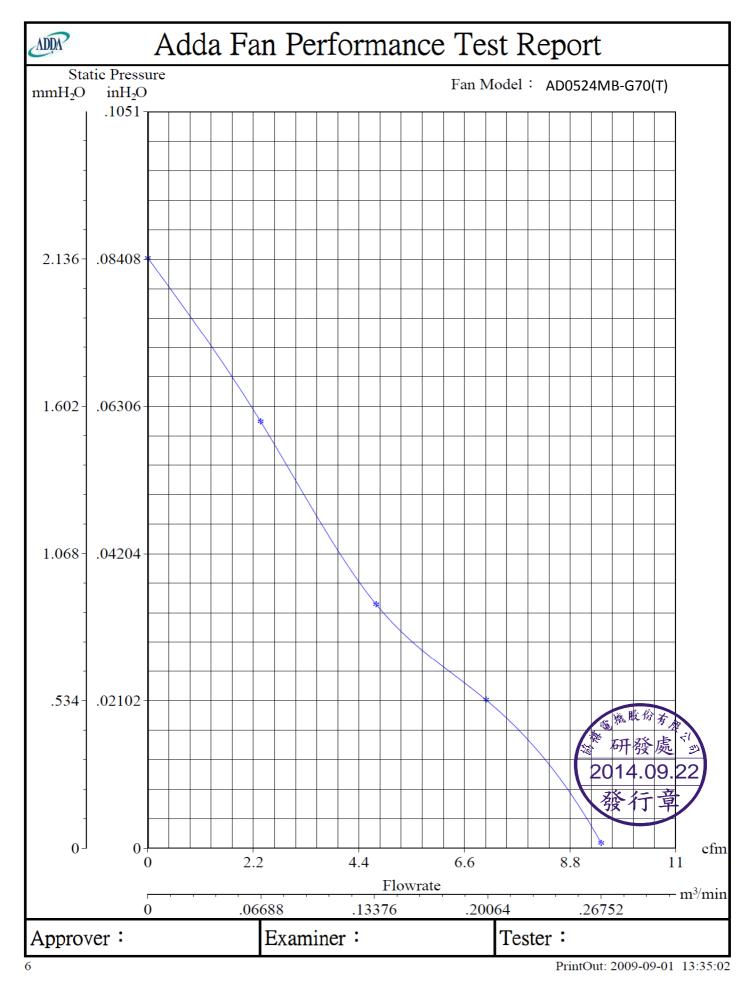
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## SPECIFICATION



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Model No.: AD0524MB-G70 P.S:(T)



	Certificate			
<b>Certifikat Nr. <i>Certificate No.</i></b> 50068602	Blatt Page		•	TÜV
hr Zeichen <i>Client Reference</i>	Unser Zeichen Ou ZTW2-MRC- 1	r <b>Reference</b> 1005418 001	Ausstellungsdatum 06.10.2005	Date of Issue (day/mo/yr)
Genehmigungsinhaber License H adda Corporation 5, East Section, Ind Pingtung City 900 Caiwan, R.O.C.		Adda Corpo	ection, Indust City 900	
TÜV Rheinland Product Safety	Geprüft nach Tes EN 60950-1		· · · · · · · · · · · · · · · · · · ·	
Zertifiziertes Produkt (Geräter Certified Product (Product Ventilator (DC Fan)	dentifikation) t Identification)			entgelte - Einheit 2 Fee - Unit
Wie Blatt (As Page) 01, Bezeichnung (Type Designation) Z1 steht für (stands for Z2 steht für (stands for Z3 steht für (stands for Z4 steht für (stands for Z5 steht für (stands for Z6 steht für (stands for Z7 steht für (stands for Z8 steht für (stands for Z8 steht für (stands for Z8 steht für (stands for ANLAGE (Appendix): I em Zertifikat liegt unsere Prüf- und Zern as Produkt entspricht den o.g. Anforder his certificate is based on our Testing a Ufills above-mentioned-requirements, the	<ul> <li>: a) ADZ1Z2Z3Z4</li> <li>b) AD2512MZ4</li> <li>c) AD2512LZ4</li> <li>d) AD2524MZ4</li> <li>r) : 20, 02, 03, 3</li> <li>07, 08, 09, 1</li> <li>r) : 05, 12, 24 od</li> <li>r) : 7, 9, 00, 10</li> <li>r) : 7, 9, 00</li> <li>r) : 7, 9, 00&lt;</li></ul>	-Z5Z6Z7Z8 5, 04, 45, 05, 2 oder (or) 75 er (or) 48 er (or) D ) X , K, Q, R, Y o oder (or) C , 6, 8, A oder (blank) oder 03 Comparison (blank) oder (blank) od	der	1 1 1 1 1 1 1 1 1 1 1 1 1 1
ÜV Rheinland Product Safety	GmbH, Am Grauen St 21)8 06 - 39 35 e-mail: Altho	,		2014.09.22

Zertifikat	Certificate			$\underline{A}$
<b>Zertifikat Nr. Certificate No.</b> R 50068602	Blatt Page 0003			ΓÜν
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Prüfzeichen Test Mark	Geprüft nach Tested EN 60950-1:2		 	
Zertifiziertes Produkt (Gerät	eidentifikation)		Lizenzentge	lte - Einheit
	ct Identification)		License Fee	
<u>Ventilator</u> (DC Fan)	)			
Wie Blatt (As Page) 01				
Fortsetzung (Continuat	ion)			
	e Anlage Appendix)		<u>.</u>	
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ANLAGE (Appendix):	1		TÜV BS III	* 股份 <i>本</i>
Dem Zertifikat liegt unsere Prüf- und Z	ertifizierungsordnung zugrunde.			AL AL IN A AR
Das Produkt entspricht den o.g. Anfora This certificate is based on our Testing fulfills above-mentioned-requirements, th	lerungen, die Herstellung wird überv and Certification Regulation. The p	roduct Za	ertifizierurgestelle	开發處 🔄
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		D	iplIng. B. Schein	rer



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