SPECIFICATION FOR APPROVAL
TO :        REF. No
CUSTOMER APPROVED CHECKED PREPARED
APPROVED APPROVED DATE DATE DATE DATE DATE DATE DATE DA
MODEL No. <u>AS12012LB25A100</u> P.S. <u>B</u>
ID NO
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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ADDA ADDA CORPORATION

## DATA-SHEET

Engineering

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Printed On:
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17/07/17

### BRUSHLESS AXIAL COOLING FANS

Customer	:	Ref: (RoHS
Adda Model No	: AS12012LB25A100	
Samples attached	: Piece(s),	
Safety Approval	: UL,CUL,TUV,CE UL:UL507 CE:EN 61000-6-1:2007 EN 61000-6-3:2007+A1	A11+A1+A12+A2
Specifications		
	PECIFICATION / CONDITION	
DIMENSIONS	: 120x120x25 mm	
BEARING TYPE	: TWO BALL	
RATED VOLTAGE	: 12 VDC	
OPERATING VOLTAGE RANGE	: 10.8 VDC – 13.2 VDC	
START-UP VOLTAGE	: 7 VDC , NORMAL	
REAL CURRENT	: 0.66 Amp	
REAL POWER	: 7.92 Watt	
RATED CURRENT	: 0.72 Amp + 10 %MAX	
RATED POWER	: 8.64 Watt	
RATED SPEED	: 2900 RPM ± 10 %	
	(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	<sup>:</sup> 125.817 CFM (min.: 113.235 CFM)	
AIR FLOW	: 3.560 CMM (min.: 3.204 CMM)	
	(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	: 0.277 Inch H <sub>2</sub> O (min.: 0.224 Inch H <sub>2</sub> O	')
STATIC AIR PRESSURE	$\div$ 7.035 mm H <sub>2</sub> O (min.: 5.698 mm H <sub>2</sub> O)	)
	(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL	<sup>:</sup> 51.0 dB (A) (max.: 55.0 dB(A))	
MOTOR PROTECTION	: BY IC	
POLARITY PROTECTION	: YES	
CONNECTION LEAD TYPE	: WIRE, AWG# 24	
LIFE EXPECTANCY	: 70000 Hours at $40^{\circ}$ C / 65% RH	
NET WEIGHT	: 220 Gram.	
PACKING	: 60 pcs. Per Export Carton.	
for the standard testing.	dity is 65%, and the temperature is 25℃ o the environmental conditions specified in the 發行	海(1) 一處 1)7.17 章

## SPECIFICATION

1 · 0 SCOPE 1.1 If the information or othe	related document is inconsistent with this acknowledge	ment
document, please refer to 1.2 This documentation def	he acknowledge document. es the mechanical & electrical characteristics of DC bru	ishless fans.
guarantee is given to our	oduct is described in details in the acknowledgement d roduct under the use of over specifications. ment to the specifications, such change will be noticed	
beforehand.	ne MIS system, please specify the specification in the p	-
order. 2 · 0 MATERIAL	, ,	
	IV-0 Glass Filled polyester (P.B.T) IV-0 Glass Filled polyester (P.B.T)	
2 · 3 RoHS : (V	YES YES	
3 · 0 DIMENSIONS & CONSTR		
specified as per drawing		
4 · 0 CHARACTERISTICS & DE	INITION	
	s were specified as per data sheet enclosed. Current shall be measured after 3 minutes of	
cont	uous rotation at rated voltage. Speed shall be measured after 3 minutes.	
of c	oltage which is able to start the fan to operate by	
sude	nly switching 'ON'. Power shall be measured after 3 minutes of	
conti	ious rotation at rated voltage. : Locked current shall be measured within one mil	nute
	3 minutes of continuous rotation at rated voltage in	
4 · 7 Air Flow & Static P	ssure:The air flow data and static pressures shou rdance with AMCA-210 standard	blı
in a doublechamber	esting with intake – side measurement. neasurement of noise level is carried out with refe	rence
to CNS8753 in an	nechoic chamber with the microphone positioned 1 r Testing fan shall be hung in clean air .	
NOISE LEVEL MEA	UREMENT	
Mic.	Fan	
	Direction of air flow	
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ADDA CORPORATION	Model No.: AS12012LB25A100	Page 2/5

### 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.

- 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  $^\circ \!\! \mathbb{C}$  to +70  $^\circ \!\! \mathbb{C}$  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.

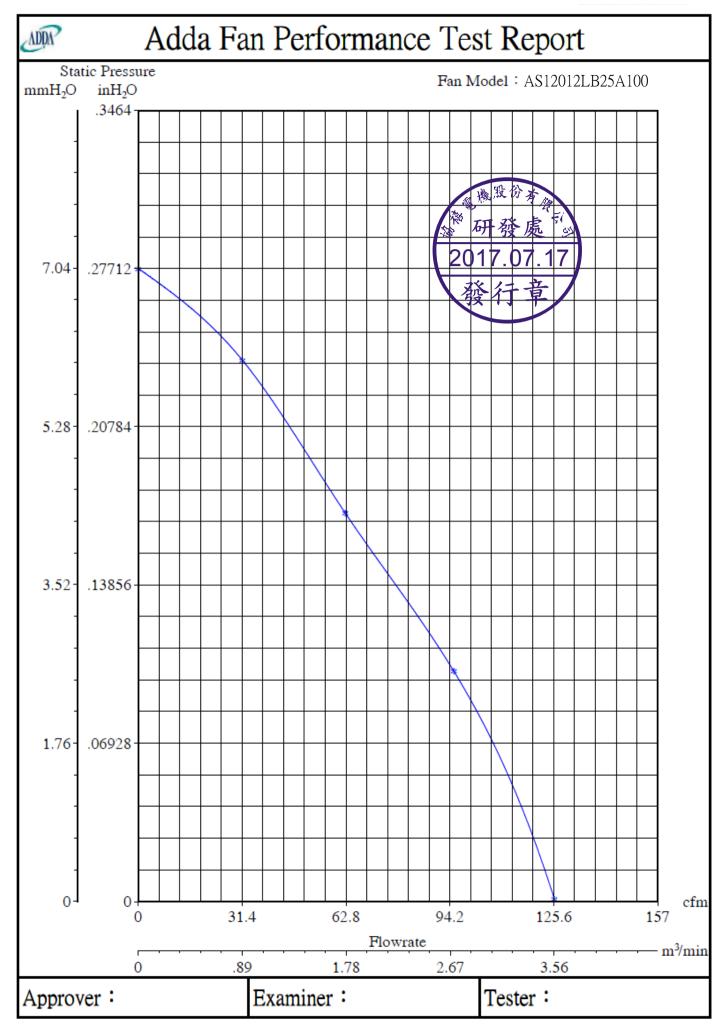
7.5 Do not place or store the fan in the environment with high/low temperature/humidity. If the fan is stored for more than 6 months, functional test is highly recommended before using.



ADDA CORPORATION

# SPECIFICATION

8.0		nges should be within specification. Iality inspection under sampling		
	Major 1	.25% .00% 2.50%		
9.0	OUTLINE STYLING & DIMENS	SIONS		
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	10.7 The "Life Expectancy" of this end application. Therefore,t	fan has not been evaluated for use in combination the Life Expectancy in the Test Reports(L10 and M eference only and shall not construe any kind of wa	TTF Report)	
	ADDA to the life of any spec	cific fan,either expressed or implied. nty,unless otherwise agreed by ADDA in written,sha		
	10.9 In Lead Wire, there is a poss			
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Genehmigungsinhaber License H Adda Corporation 6, East Section, Ind Pingtung City 900 Taiwan, R.O.C.		(Kunshan), Co., No. 88, Jiangfe Zhangpu Town	Machinery Technology , Ltd.		
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(Change)			2017.07.17		
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ANLAGE (Appendix):	1 - 1.80		-		
Dem Zertifikat liegt unsere Prüf- und Zertifiz les Produktes mit den oben genannten Stana n Ländern, in denen das Produkt in Verkeh vetrachtet werden. Die Herstellung des zertif his certificate is based on our Testing and G of the product with the standards and testing equirements in countries where the product idditionally. The manufacturing of the certif	ierungsordnung zugrunde und es lards und Prüfgrundlagen. Zusät gebracht werden soll, müssen zu lzierten Produktes wird überwac Zertification Regulation and state requirements as indicated above is going to be marketed have to i	zliche Anforderungen stätzlich Za ht. 5 the conformity 2. Any additional be considered	ertifizierungsstelle Stiefinand LGA Progra		
FÜV Rheinland LGA Products G rel: (+49/221)8 06 - 13 71 e-mail; cert-val	mbH - Tillystraße 2 - 904	/	En ilizierungsstell		

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