




SPECIFICATION FOR APPROVAL

TO : _____

REF. No. _____

APPROVED DATE 	CHECKED DATE 	PREPARED DATE 
--	---	--

MODEL No. AD0412HB-C56 P.S. _____

DESCRIPTION: DC FAN (Lead Free) REV. C

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 DULLY
SIGNED AS YOUR CONFIRMATION OF SAME.



ADDA ADDA CORPORATION

DATA - SHEET

Engineering

BRUSHLESS AXIAL COOLING FANS.

Printed on: 05/01/11

Customer :	Ref:
ADDA Model No. : AD0412HB-C56	
Samples attached : piece(s)	
Safety Approval : UL,CUL,TUV,CE	
Specifications	
<u>ITEM</u>	<u>SPECIFICATION / CONDITION</u>
DIMENSIONS	: 40x40x20 MM
BEARING TYPE	: BALL
RATED VOLTAGE	: 12.0 VDC
OPERATING VOLTAGE RANGE	: 10.8 VDC - 13.2 VDC
START-UP VOLTAGE	: 9.0 VDC, NOMINAL
RATED CURRENT	: 0.100 Amp. + 10% MAX
RATED POWER	: 1.20 Watt.
RATED SPEED	: 7800 RPM ± 10% (IN FREE AIR AT RATED VOLTAGE)
AIR FLOW	: 10.1 CFM (IN FREE AIR AT RATED VOLTAGE)
STATIC AIR PRESSURE	: 0.263 Inch Water (IN FREE AIR AT RATED VOLTAGE)
NOISE LEVEL	: 31.9 dB/A
MOTOR PROTECTION	: BY IMPEDANCE
CONNECTION LEAD TYPE	: WIRE ,AWG#26
LIFE EXPECTANCY	: 50000 Hours at 40°C / 65%
NET WEIGHT	: 28 Gram.
PACKING	: 500 pcs. per Export Carton
<p>Unless otherwise stated, the relative humidity is 65%, and the temperature is 40°C for the standard testing.</p> <p>Should you have any doubt, please refer to the environmental conditions specified in the acknowledgement document.</p>	
ADDA CORPORATION	Model No.: AD0412HB-C56
Page 1/4	



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 Lead Free : (V) Yes

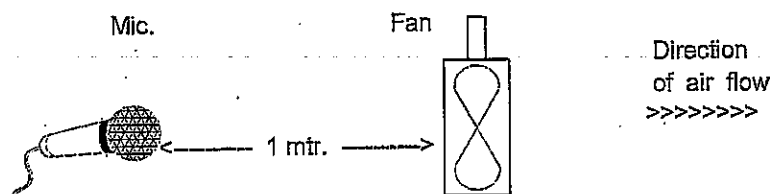
3.0 DIMENSIONS & CONSTRUCTION

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 standard or DIN24163 specification in a doublechamber testing with intake - side measurement.
- 4.8 Noise Level : The measurement of noise level is carried out with reference to CNS8753 in an echoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air.

NOISE LEVEL MEASUREMENT



SPECIFICATION

5.0 MECHANICAL INSPECTION

5.1 Rotation Direction

Clockwise with label side facing up. The same direction also indicated by an arrow mark on one side of the housing.

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 continuous 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 at humidity 65%+/-20% RH.

7.3 Storage Temperature

All function shall be normal after 500 hours storage at -40°C to +70 °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 specification.

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.



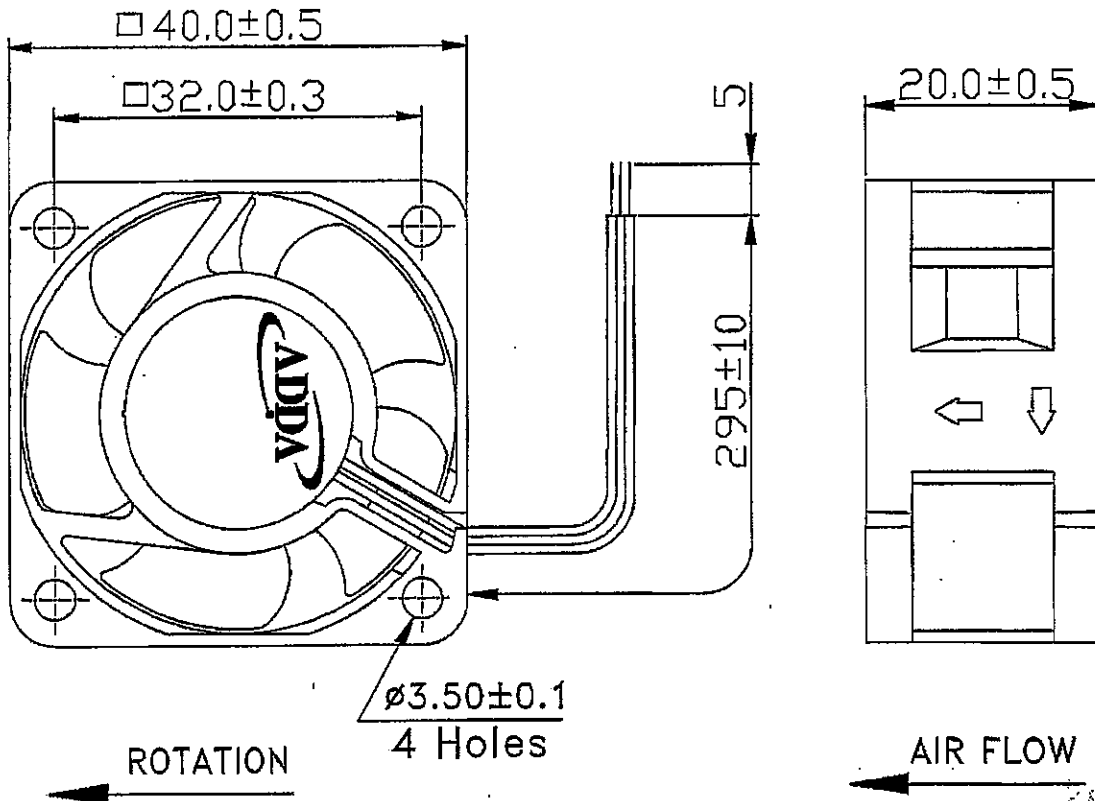
SPECIFICATION

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	0.25%
Major	1.00%
Minor	2.50%

9.0 OUTLINE STYLING & DIMENSIONS



LEAD WIRES : UL 1007, AWG26, L = 295 +/- 10 MM
 Red = positive; Black = negative.
 Blue = FG

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



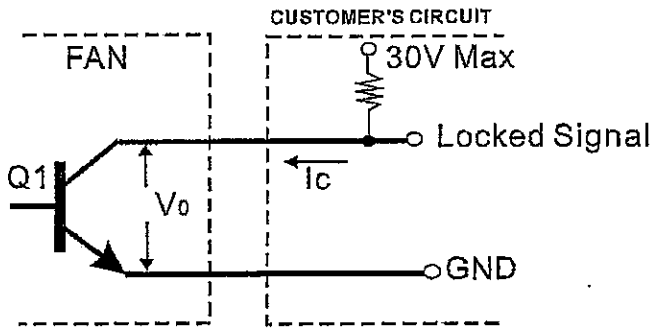


Output of locked signal

*Output type.....Open collector type

*Electrical design suggestion:

(External signal function design is decided by customer)



*Transistor Q1 at "ON" position

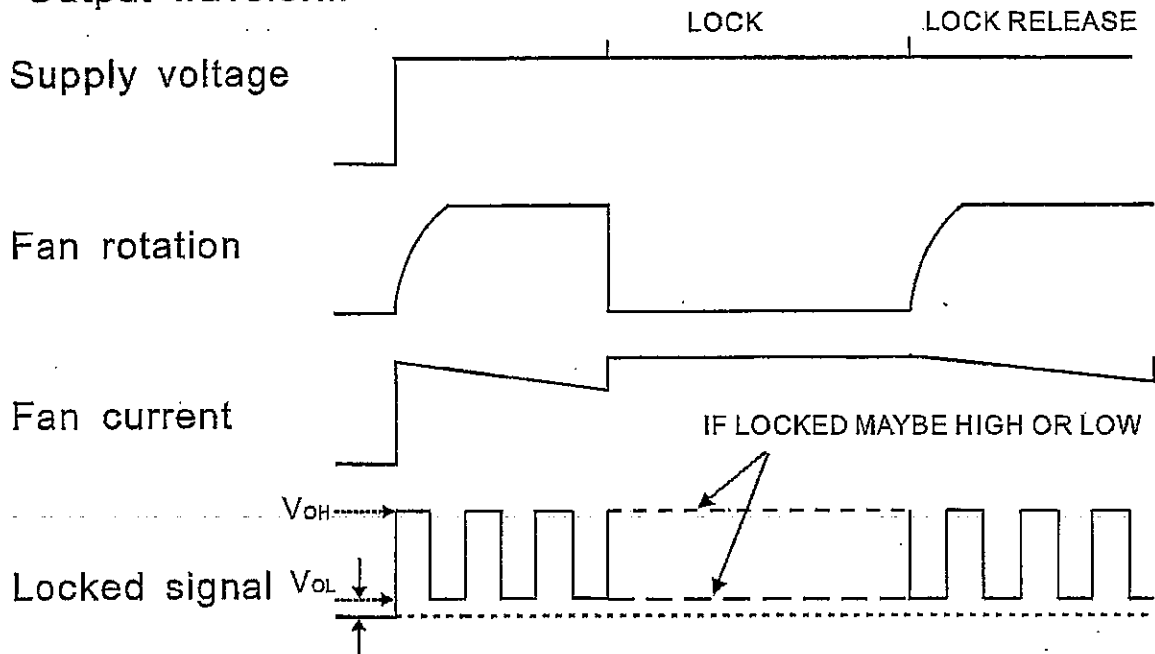
Collector current..... $I_c=10\text{mA Max}$

Saturation Voltage..... $V_{OL}=1.0\text{V Max}$

*Transistor Q1 at "OFF" position

Release Voltage..... $V_{OH}=30\text{V Max}$

*Output waveform





**Underwriters
Laboratories Inc.®**

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 854 3577

ADDA CORP
MR R SHIEH
NO 6 E SECTION INDUSTRY 6 RD
PING TUNG TAIWAN

Your most recent Certification is shown below. You may also view this information on UL's Online Certifications Directory at www.ul.com. Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required.

Effective June 30, 2004, UL plans to discontinue the distribution of Listing Information Pages in a printed format since this information is readily available via UL's Online Certifications Directory at www.ul.com. To view your company's current Listing Information or for ordering your company's Listing Information in the 3 x 5-inch card format (effective June 30, 2004), please refer to www.ul.com. Prior to June 30, 2004, the 3 x 5-inch Listing Cards can be ordered using the enclosed form. If you have any questions or comments about the discontinuance of the printed Listing Information Pages, please email Susan Druktenis at Susan.M.Druktenis@us.ul.com.

GPWV2
Fans, Electric - Component

May 29, 2004

ADDA CORP
NO 6 E SECTION INDUSTRY 6 RD, PING TUNG TAIWAN

E132139

Models AD0412HB-C70, -C71, AD0412HS-C70, -C71, AD0412MB-C70, -C71, AD0412MS-C70, -C71, AD0412LB-C70, -C71, AD0412LS-C70, -C71, AD06(A)(B)(C)-(F), AD0605M(C)-A70GL, AD0612(B)(C)-(E), AD08(A)(B)(C)-(D), AD08(A)(B)(C)-(G), AD0812H(C)-A74GL where (A) may be 12 or 24, (B) may be H, L or M, (C) may be B, S or X, (D) may be A70GL, A71GL, A75GL, (E) may be C70GL, C71GL, (F) may be A70GL, A71GL, A72GL or A73GL, (G) may be A72GL, A73GL.

Models AD08(A)(B)(C)-(D), AD08(A)(B)(X)-(E), AD09(A)(B)(C)-(A)(D), AD09(A)(B)(F)-(G), AD12(A)(B)(C)-(A)(E), AD12(A)(B)(F)-(A71GL, -A72GL where (A) may be 12 or 24, (B) may be H, L or M, (C) may be B or S, (D) may be 50, 51, 70, 71 or 72, (E) may be 70 or 71, (F) may be B, S or X, (G) may be A70GL or A72GL.

Models AD0205(A)(B)-(C)(D), AD0212(A)(B)-(C)(D), AD0305(A)(B)-(C)(D), AD0312(A)(B)-(C)(D), AD2005(A)(B)-(C)(D), AD2012(A)(B)-(C)(D) where (A) may be D, H, L or M, (B) may be B, S or X, (C) may be G, (D) may be 50 or 70.

Model AD2512HB-BV7.

Models AD0305(D)(B)-G56, AD0312L(B)-G50, AD0405(A)(B)-C50, AD0412(B)(C)-C50, where (A) may be L or M, (B) may be B, S or X, (C) may be H, L or M, (D) may be D or L.

Models AD0405LX-K90, AD0405MX-K90, AD0412MX-K90, AD0512LX-G70, AD0512MX-G70, AD0612HY-D74GL, where (X) may be B, S or X, (Y) may be B or X.

Model AD0(A)(BC)(D)(E)-C7(F) where (A) may be 8 or 9, (BC) may be 12 or 24, (D) may be H or M, (E) may be B, S or X, (F) may be 0 or 1.

Model AD(A)(B)(C)(D)-(E)(F), (A) may be 02, 04, 05, 08, (B) may be 05, 12 or 24, (C) may be H, M or L, (D) may be S, X or B, (E) may be D or G or K, (F) may be 53, 70, 71, 72, 76.

Model ADabcd - efgh, where (a) may be 04, 06, 08 or 09, (b) may be 05, 12 or 48, (c) may be U, H, M or L, (d) may be B, S or X, (e) may be A, D, G, J or K, (f) may be 7, 9, A or C, (g) may be 0, 1, 3 or 6, and (h) may be GL or blank.

Models AD12(A)(B)(C)-F5(D), AD1212H(C)-F5(E), AD1224H(C)-F5(F), AD1226H(C)-F51 where (A) may be 12, 24 or 48, (B) may be H, M or L, (C) may be S, B, V or X, (D) may be 1, 2 or 3, (E) may be 4, 5, 6 or 7, (F) may be 4 or 6.

Models AD12(A)(B)(C)-A(E), AD12(A)(B)(D)-A(E)GL, where (A) may be 12 or 24, (B) may be H, L or M, (C) may be B or S, (D) may be B, S or X, (E) may be 70 or 71.

Models AD2512(A), AD2524(A) where (A) may be MB, MS or MX.

Models AD08, AD09 followed by (A)(B)(C)-A5(D) where (A) maybe 12 or 24, (B) may be H, L or M, (C) may be B or S, (D) may be 2 or 3.

Models AD0212HB-G71, AD0405HB-G91, AD0405HS-G91, AD0405MB-E81, -G91, AD0405MS-G91, AD0406MB-E81, AD0412HB-E81, -G91, AD0412HS-E81, -G91, AD0412LB-E81, AD0412LS-E81, AD0412MB-E81, -G91, AD0412MS-E81, -G91, AD0605HB-D71, AD0606HB-D71, AD0612HB-D71, AD0612HS-D71, AD0612LB-D71, AD0612LS-D71, AD0612MB-D71, AD0612MS-D71.

Models AD0 followed by 6 or 8, followed by 12 or 24, followed by H; L or M, followed by S or B, followed by A or C, followed by 50GL, 51GL, 70GL or 71GL.

An independent organization working for a safer world with integrity, precision and knowledge.
349050002



Model AD75(A)(B)(C), where (A) may be 12 or 24, (B) may be H or M, (C) may be B, S or X.
 Models AD04(A)(B)(C)-G70, AD0405(C)-G70, AD0405(D)(C)-K96, AD0424(B)(C)-C70, where (A) may be 05 or 12, (B) may be H or M, (C) may be B, S or X, (D) may be H, L or M; Model BD0412MS-G70.
 Model AD04(A), (B), (C), (D) or (E), where (A) may be 05, 12 or 24, (B) may be H, L or M, (C) may be B, S or X, (D) may be C or K, (E) may be 50, 51, 52, 53, 56 or C3.
 Models AA128(A)(B)(C)-(D), AA838(A)(E)(C)-(F), where (A) may be 1 or 2, (B) may be D, H, L or M, (C) may be B, S or X, (D) may be AT, AW, PT or FW, (E) may be H or M, (F) may be AT or AW.
 Model AD0612UB-D72GL.
 Models AA1281U(A)-(B), AA1282U(A)-(B), where (A) may be B, S or X, (B) may be AT or AW.
 Model AD05(A)(B)(C)-(D), AD0505(B)(C)-G76, AD0512(E)(C)-(F), AD0512M(C)-D76, where (A) may be 05 or 12, (B) may be H or M, (C) may be B, S or X, (D) may be D70, D71 or G90, (E) may be H, L or M, (F) may be G70 or G76.
 Models AD08(A)(B)(C)-D71, AD08(D)UB-A(E)GL, AD0812(B)B-D74 where (A) may be 05 or 12, (B) may be H or M, (C) may be B, S or X, (D) may be 12 or 24, (E) may be 71, 72 or 73.
 Models AD06(A)(B)(C)-(E), AD06(A)(D)(C)-G90, AD0612(D)(C)-G96, where (A) may be 05 or 12, (B) may be H or M, (C) may be B, S or X, (D) may be H, L or M, (E) may be D71GL, D72GL or D73GL.
 Model AD02(A)(B)-C70, where (A) may be 05 or 12, (B) may be B, S or X; Model AD0205L(C)-C50, where (C) may be B or X.
 Models AD09(A)H(C)-A74GL, AD0912(B)(C)-A76GL, where (A) may be 12 or 24, (B) may be H, L or M, (C) may be B, S or X.
 Models AD0912(A)(Y)-A(W)GL, AD0912(A)(Y)-A2GL, where (A) may be H, L, M or U, (Y) may be B, S or X, (W) may be 71, 72 or 73.
 Model AD0924XY-A7ZGL.
 Models AD4505H(B)-C70, AD4512(A)(B)-(C), where (A) may be H or M, (B) may be B, S or X, (C) may be G7 or G76.
 Model AD1224(A)(B)-A74GL, where (A) may be H, L or M, (B) may be B, S or X.
 Models AD0305L(X)-K70, AD0312L(X)-K70 where (X) may be B or X; Model AD0424MB-G70.
 Models AD0412H(Y)-D50, AD0412H(Y)-D56, AD0412L(Y)-D50, AD0412L(Y)-D56, AD0412M(Y)-D50, AD0412M(Y)-D56 where (Y) may be B, S or X.
 Model AD0612M(B)-D70GL where (B) may be B, S or X; Model AD0812MB-D76.
 Models AD0612H(Y)-A76GL, AD0612L(Y)-A76GL, AD0612M(Y)-A76GL where (Y) may be B, S or X.
 Models AD0612D(Y)-D70GL, AD0612D(Y)-D76GL, AD0612H(Y)-D70GL, AD0612H(Y)-D76GL, AD0612L(Y)-D70GL, AD0612L(Y)-D76GL, AD0612M(Y)-D70GL, AD0612M(Y)-D76GL, AD0624H(Y)-D70GL, AD0624H(Y)-D76GL, AD0624M(Y)-D70GL, AD0624M(Y)-D76GL, where (Y) may be B, S or X.
 Models AD0305L(X)-K70, AD0312L(X)-K70, where (X) may be B or X; Model AD0424MB-G70.
 Model AD0612M(B)-D70GL, where (B) may be B, S or X; Model AD0812MB-D76.
 Models AD0612H(Y)-A76GL, AD0612M(Y)-A76GL, AD0612L(Y)-A76GL, where (Y) may be B, S or X.
 Model AD0624UX-A79GL.
 Models AD0612XY-C72GL, AD0612XY-C73GL, AD0612XY-C76GL, AD0624XY-C70GL, AD0624XY-C76GL Series where X may be H, L or M, Y may be B, S or X.
 Model AP45(A)(B)(C)-J(D), where (A) may be 05 or 12, (B) may be H, M or L, (C) may be B or X, (D) may be J or G, (E) may be 90 or 96.
 Model AD(P1)(P2)(P3)(P4)-G(P5), where (P1) may be 04, 05, or 45, (P2) may be 05, 12, or 24, (P3) may be L, M, H or U, (P4) may be B, X, or S, and (P5) may be 70 or 76.
 Models AD02(A)(B)(C)-(D)(E), AD02(A)(B)(C)-(D)(E), AD35(A)(B)(C)-(D)(E), where (A) may be 05 or 12, (B) may be L, M and D, (C) may be B or X, (D) may be G or R, (E) may be 50 or 53.
 Model AD12(X1)(X2)(X3)-F(X4), where (X1) may be 12, 24 or 48, (X2) may be H, L, M or U, (X3) may be B, S or X, (X4) may be 51, 52 or 53.
 Model Atu05vw-xyz, where t may be B or D, u may be 03, 04, 05 or 45, v may be H, L or M, w may be B, S or X, x may be G or R, y may be 7, B or D, z may be 1, 3 or B.
 Model AD(A)48H(B)-(C)(D)8(E), where (A) may be 08, 09 or 12, (B) may be B, S or X, (C) may be A or F, (D) may be 5 or 7, (E) may be GL or blank.
 Model AD(A)24(B)(C)-A7(D)GL where (A) may be 09 or 12, (B) may be H or M, (C) may be B, S or X, and (D) may be 4 or A.
 Model AD0505(A)(B)-G70, where (A) may be H, M or L, and (B) may be B, S or X.
 Models AD0524HB-G70, AD0524HS-G70, AD0524HX-G70, AD0524MB-G70, AD0524MS-G70, AD0524MX-G70, AD0524LB-G70, AD0524LS-G70, AD0524LX-G70, AD0524HB-G76, AD0524HS-G76, AD0524MX-G76, AD0524MB-G76, AD0524MS-G76, AD0524MX-G76, AD0524LB-G76, AD0524LS-G76, AD0524LX-G76, AD0612UB-A71GL, AD0612US-A71GL, AD0612UX-A71GL, AD0612UB-A72GL, AD0612US-A72GL, AD0612UX-A72GL, AD0612UB-A73GL, AD0612US-A73GL, AD0612UX-A73GL.
 Model AD0612HB-D78GL.
 Models AD0812UB-A70GL, AD0812US-A70GL, AD0812UX-A70GL, AD0812UB-A76GL, AD0812US-A76GL, AD0812UX-A76GL, AD0812HB-A76GL, AD0812HS-A76GL, AD0812HX-A76GL, AD0812MB-A76GL, AD0812MS-A76GL, AD0812MX-A76GL, AD0812LB-A76GL, AD0812LS-A76GL, AD0812LX-A76GL, AD0912UB-A70GL, AD0912US-A70GL, AD0912UX-A70GL, AD0912UB-A76GL, AD0912US-A76GL, AD0912UX-A76GL, AD0912DB-A70GL, AD0912DS-A70GL, AD0912DX-A70GL, AD0612HB-G70, AD0612HS-G70, AD0612HX-G70, AD0612MB-G70, AD0612MS-G70, AD0612MX-G70, AD0612LB-G70, AD0612LS-G70, AD0612LX-G70, AD0612HB-G76, AD0612HS-G76, AD0612HX-G76, AD0612MB-G76, AD0612MS-G76, AD0612MX-G76, AD0612LB-G76, AD0612LS-G76, AD0612LX-G76, AD0312MX-G50.
 AD0412UBC50, AD0412UBC52, AD0412UBC56, AD0412UBD50, AD0412UBD52, AD0412UBD56, AD0412USC50, AD0412USC52, AD0412USC56, AD0412USD50, AD0412USD52, AD0412USD56, AD0412UXC50, AD0412UXC52, AD0412UXC56, AD0412UXD50, AD0412UXD52, AD0412UXD56, AD0412HBC50, AD0412HBC52, AD0412HBC56, AD0412HBD50, AD0412HBD52, AD0412HBD56, AD0412HSC50, AD0412HSC52, AD0412HSC56, AD0412HSD50, AD0412HSD52, AD0412HSD56, AD0412HXC50, AD0412HXC52, AD0412HXC56, AD0412HXD50, AD0412HXD52, AD0412HXD56, AD0412MBC50, AD0412MBC52, AD0412MBC56, AD0412MBD50, AD0412MBD52, AD0412MBD56, AD0412MSC50, AD0412MSC52, AD0412MSC56, AD0412MSD50, AD0412MSD52, AD0412MSD56, AD0412MXC50, AD0412MXC52, AD0412MXC56, AD0412MXD50, AD0412MXD52, AD0412MXD56, AD0412LBC50, AD0412LBC52, AD0412LBC56, AD0412LBD50, AD0412LBD52, AD0412LBD56, AD0412LSC50, AD0412LSC52, AD0412LSC56, AD0412LSD50, AD0412LSD52, AD0412LSD56, AD0412LXC50, AD0412LXC52, AD0412LXC56, AD0412LXD50, AD0412LXD52, AD0412LXD56.
 Models AD0305MB-G56 and AP0412MX-C70.
 Models AD1212UB-F51, AD1212US-F51, AD1212UX-F51, AD1212UB-F52, AD1212US-F52, AD1212UX-F52, AD1212UB-F53, AD1212US-F53, AD1212UX-F53.
 Models AB5012HB-C06, AD7512LB, AD7512LS, AD7512LX, AD7512UB, AD7512US, AD7512UX, AD7524LB, AD7524LS, AD7524LX, AD7524UB, AD7524US, AD7524UX.
 Models AD0505HX-RBB and AD0505HLX-RB0.
 Models AD0712HB-A70GL, AD0712HS-A70GL, AD0712HX-A70GL, AD0712MB-A70GL, AD0712MS-A70GL, AD0712MX-A70GL, AD0712LB-A70GL, AD0712LS-A70GL, AD0712LX-A70GL, AD0712HB-A76GL, AD0712HS-A76GL, AD0712HX-A76GL, AD0712MB-A76GL, AD0712MS-A76GL, AD0712MX-A76GL, AD0712LB-A76GL, AD0712LS-A76GL, AD0712LX-A76GL.
 Models AA1752HB-AW, AA1752HB-AT.
 Models AD0712(A)(B)-DA(C), where (A) may be U, H, M, L or D, (B) may be B, S or X, and (C) may be 0 or 6.



Model AA1751(X)B-A(Y) where (X) may be H or M, (Y) may be T or W.
Models AD0405(A)(B)-G(C), AD0412(A)(B)-G(C), where (A) may be H, M, or L, (B) may be B, S, or X, and (C) may be 71, 72, or 73.
Model AD0205(A)(B)-Q53, (A) may be M, L or D, (B) may be B or X.
Model AD4505MX-RB3.
Model AD0405(A)(B)-GA3, where (A) may be H or M, (B) may be B or X.
Model AD12(A)(B)(C)-A7(D)GL, where (A) may be 12 or 24, (B) may be H, M, L or U, (C) may be B, S or X, (D) may be 1, 2 or 3.
Models AD5012(A)(B)-D7(C), where (A) may be H, M, L or U, (B) may be B, S or X, (C) may be 0 or 6.
Models AD0812(A)(B)-C7(D), AD0824(C)(B)-C7(D), where (A) may be U, H, M or L, (B) may be B, S or X, (C) may be H or M, (D) may be 0 or 6.
Models AD2005LB-C73 and AB0405HB-G03.
Model AB7005(A)B-SA3; where (A) may be H, M or L.
Model AD12(A)(B)(C)-(D)(E)(F); where (A) may be 12 or 24, (B) may be U, H, M, L or D; (C) may be B, S or X; (D) may be Y or A; (E) may be 51, 52, 53, 74 or 7A; (F) may be GL or blank.
Models AE1281B, AE1281S and AE1281X.
Model AD0812(A)(B)-D7(C); where (A) may be H, M or L; (B) may be B, S or X; (C) may be 1 or 3.
DC fans, Models AD0405UB-GA3, AD0405UX-GA3, AD0612(X)B-D9(Y), where (X) may be U or H, (Y) may be 1, 2, or 3.
Model AD0305(X)(Y)-Q7(Z), where (X) may be H, M, or L, (Y) may be B or X, (Z) may be 1 or 3.
Models AD0624(X)(Y)-A7(Z)GL where (X) may be U, H, or M, (Y) may be B, X, or S, (Z) may be 1, 2 or 3; Models AD5105HB-L06, AD4605HB-GC3; Models AD0605(X)(Y)-D7(Z)GL, AD0605(P)(Y)-A7(Z)GL, where (X) may be U, H, M or L, (Y) may be B, S, or X, (Z) may be 1, 2 or 3, (P) may be H, M or L; Models AD0848H(X)-A7(Y)GL where (X) may be B, S or X; (Y) may be 0 or 6; Model AB0405UB-G03.
DC Fans, Models AD0412(A)(B)-B3(C) where (A) may be H, M or L, (B) may be B, S or X, (C) may be 1, 2 or 3.
Models AD0924XB-A71GL, AD0924XB-A72GL, AD0924XB-A73GL.
Models AB3505HB-QB3, AB0605HB-E03, AD2705HB-Q73 and AD4505HB-H03.
Models AB7012HB-E01, AB7012HB-E02, AB7012HB-E03.
Models AB6812HX-GC0, AB6812MX-GC0, AB6812LX-GC0.
Models AB7005HB-E0(X), AB6105HB-DC(X), where (X) may be 1, 2 or 3.
Model AB0605(A)(B)-E0(C), where (A) may be H or M; (B) may be B, S or X; (C) may be 1, 2 or 3.
Models AP5212(X)(Y)-E7(Z), where (X) may be H, M, L or D; (Y) may be X or B; (Z) may be 0 or 6.
Models AB4505HB-L03, AB5505M(A)-GD(B) where (A) may be B or X; (B) may be 1, 2 or 3.
Models AB3512(X)(Y)-QB(Z) where (X) may be U, H, M or L; (Y) may be B or X; (Z) may be 0 or 6.
Models AB4505H(A)-GD(B), AB4505M(A)-GD(B), AB4505L(A)-GD(B), AD4505HB-T0(B), AD0605DB-D9(B), AD0712UB-D9(B), AB4512(X)(D)-QA(C), AD5012(X)(A)-D7(B), where (A) may be B, S or X; (B) may be 1, 2 or 3; (X) may be H, M or L; (D) may be B or X; (C) may be 0 or 6.
Models AD0424(B)(Y)-D5(U), AD0612LS-D90, AD0612(X)(Y)-D7(Z)GL, AD0812(A)(Y)-A7(Z)GL, AD0812HS-A70GL, AD0424(B)(Y)-C5(Z), where (A) may be X, U, H, M, L or D; (B) may be H, M or L (X) may be U, H, M, L or D; (Y) may be B, S or X; (U) may be 0 or 6; (W) may be 1 or 2; (Z) may be 1, 2 or 3.
Models AD5012HB-S01, AD5012HB-S02, AD5012HB-S03.
Model AD0812H(X)-A78GL, where (X) may be B, S or X.
Model AD0848HB-A7(X)GL, where (X) may be 1, 2 or 3.
Model AD0205(X)(Y)-G50, where (X) may be H, M, L or D; (Y) may be B or X.
Model AB3505(X)(Y)-QB0, where (X) may be H, M or L; (Y) may be B or X.
Models AD0605HB-TB(X) where (X) may be 1, 2 or 3.
Models AD0512(X)X-RB(Y) and AD0512(X)B-RB(Y), where (X) may be H or M; (Y) may be 0 or 6.
Models AD0412UB-C7(Y), AD0412D(Z)-C7(Y), AB0605HB-TB(X), where (X) may be 1, 2 or 3; (Y) may be 0 or 6; (Z) may be B, S or X.
Models AB3505(X)B-GA(Z), AB3505(X)X-GA(Z), AB5012(X)(Y)-C0(W), AD0812(X)(Y)-C7(W), AD0812(X)(Y)-C7(W), AD0812D(Y)-C7(W), where (X) may be H, M or L; (Y) may be B, S or X; (Z) may be 0 or 6; (W) may be 1, 2 or 3.
Model AD0612M(X)-GAD where (X) may be S, X or B.
Model AD5512HB-SC(X), where (X) may be 1, 2 or 3.
Model AD3505 (X) (Y) -G5 (Z) where (X) may be H, M or L; (Y) may be B or X; (Z) may be 1 or 2.
DC Component Fans, Models AD0824H(X)-A7(Y)GL, AD0824H(X)-A7(Y)GL, AB0912MB-ZD(Z), AB0912LB-ZO(Z) where (X) may be B, S or X; (Y) may be A, 4 or 8; (Z) may be 1, 2 or 3.
DC Component Fans, Models AD0612(X)(Y)-GA(Z) where (X) may be H, M or L; (Y) may be B, S or X; (Z) may be 0 or 6.
DC Component Fans, Models AB0812HB-C03, AB6812HB-A03, AB7312HB-M03.
DC Component Fans, Models AD0305(X)(A)-D50, AD3503HB-G52, AD0712U(Y)-A7(W)GL, AD0712(X)(Y)-A7(W)GL, AD0712(X)B-DA(W), AD0712DB-DA(W), AD0812D(Y)-A7(Z)GL, (A) may be B or X; where (X) may be H, M, or L; (Y) may be B, S or X; (Z) may be 0 or 6; (W) may be 1, 2 or 3.
DC Component Fans, Models AD0712U(X)-A7(Y)GP, AD0712H(X)-A7(Y)GP, AD0812U(X)-A7(Y)GL, AD0912U(X)-A7(Y)GL, where (X) may be B, X or S; (Y) may be B or 9.
AC Component Fans, Models AA1282(X)(Y)-A(Z)GL, AA1282(X)(Y)-A(Z)GL5, AA1252M(Y)-A(Z)GL, where (X) may be H, M, L or D; (Y) may be B, X or S; (Z) may be T or W.
DC Component Fans, Models AD0405HB-GD(W), AD0505HB-C0(W), AB4512(X)(Y)-GD(Z), where (X) may be H, M or L; (Y) may be B, S or X; (W) may be 1, 2 or 3; (Z) may be 0 or 6.
DC Component Fans, Models AQ00(X)(Y)(A)B-A7(Z)GL, AQ00(X)(Y)(B)B-A7(W)GL, where (X) may be 8 or 9; (Y) may be 12 or 24; (A) may be H, M or L; (B) may be M or L; (Z) may be 1, 2 or 3; (W) may be 0 or 6.
DC component fans, Models AB0712HB-CC1, AB0712HB-CC2, AB0712HB-CC3.
DC Fans, Models AD0712(Y)F-D9(A), AD0812(W)F-A7(A)GL, AD0724(Z)F-D9(A), AD0824(X)F-A7(A)GL, where (Y) may be H, M, L or D; (A) may be 1, 2, or 3; (W) may be U, H, M or L; (Z) may be U, H, M, L or D; (X) may be X, U, H, M or L.
DC Fans, Models AD0612XB-D7(W)GL, AD0912UB-Y7(Y)GL, where (W) may be 1, 2, or 3; (Y) may be B or 9.
DC Fans, Models AB6505HB-LB(A), AB5505HB-LB(A), AB7405HB-HB(A), AB0605HB-HB(A), AD0612HB-D0(A), where (A) may be 1 or 3.
Marking: Company name or trademarks  or  and model designation.

See General Information Preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.





**Underwriters
Laboratories Inc.®**

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 854 3577

ADDA CORP
MR R SHIEH
NO 6 E SECTION INDUSTRY 6 RD
PING TUNG TAIWAN

Your most recent Certification is shown below. You may also view this information on UL's Online Certifications Directory at www.ul.com. Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required.

Effective June 30, 2004, UL plans to discontinue the distribution of Listing Information Pages in a printed format since this information is readily available via UL's Online Certifications Directory at www.ul.com. To view your company's current Listing Information or for ordering your company's Listing Information in the 3 x 5-inch card format (effective June 30, 2004), please refer to www.ul.com. Prior to June 30, 2004, the 3 x 5-inch Listing Cards can be ordered using the enclosed form. If you have any questions or comments about the discontinuance of the printed Listing Information Pages, please email Susan Druktenis at Susan.M.Druktenis@us.ul.com.

GPWV8
Fans, Electric Certified For Canada - Component
May 29, 2004

ADDA CORP
NO 6 E SECTION INDUSTRY 6 RD, PING TUNG TAIWAN

E132139

Models AD08(A)(D)(C)-C70, AD09(A)(B)(C)-C70, where (A) may be 12 or 24, (B) may be H or M, (C) may be B or S, (D) may be H, L or M. Models AD0205(A)(B)-(C)(D), AD0212(A)(B)-(C)(D), AD0305(A)(B)-(C)(D), AD0312(A)(B)-(C)(D), AD2005(A)(B)-(C)(D), AD2012(A)(B)-(C)(D) where (A) may be D, H, L or M, (B) may be B, S or X, (C) may be G, (D) may be 50 or 70.

Model AD2512HB-BV7.
Models AD04(A)(B)(C)-G70, AD0408L(C)-G70, AD0405(D)(C)-K96, AD0424(B)(C)-C70, where (A) may be 05 or 12, (B) may be H or M, (C) may be B, S or X, (D) may be H, L or M; Model BD0412MS-G70.

Model AD04(A), (B), (C), (D) or (E), where (A) may be 05, 12 or 24, (B) may be H, L or M, (C) may be B, S or X, (D) may be C or K, (E) may be 50, 51, 52, 53, 56 or C3.

Models AA128(A)(B)(C)-(D), AA838(A)(B)(C)-(F), where (A) may be 1 or 2, (B) may be D, H, L or M, (C) may be B, S or X, (D) may be AT, AW, PT or FW, (E) may be H or M, (F) may be AT or AW.

Model AD0612UB-D72GL.
Models AA1281U(A)-(B), AA1282U(A)-(B), where (A) may be B, S or X, (B) may be AT or AW.

Models AD09(A)(B)(C)-A70GL, AD12(A)(B)(C)-A71GL, AD12(A)(B)(C)-A72GL, where (A) may be 12 or 24, (B) may be H, L or M, (C) may be B, S or X.

Models AD0912(A)(Y)-A(W)GL, AD0912(A)(Y)-A2GL, where (A) may be H, L, M or U, (Y) may be B, S or X, (W) may be 71, 72 or 73.

Models AD05(A)(B)(C)-(D), AD0505(E)(C)-G76, AD0512(B)(C)-(F), AD0512M(C)-D76, where (A) may be 05 or 12, (B) may be H or M, (C) may be B, S or X, (D) may be D70, D71 or G90, (E) may be H, L or M, (F) may be G70 or G76.

Models AD08(A)(B)(C)-D71, AD08(D)UB-A(E)GL, AD0812(B)B-D74 where (A) may be 05 or 12, (B) may be H or M, (C) may be B, S or X, (D) may be 12 or 24, (E) may be 71, 72 or 73.

Models AD06(A)(B)(C)-(E), AD06(A)(D)(C)-G90, AD0612(D)(C)-G96, where (A) may be 05 or 12, (B) may be H or M, (C) may be B, S or X, (D) may be H, L or M, (E) may be D71GL, D72GL or D73GL.

Models AD0305(D)(B)-G56, AD0312L(B)-G50, AD0405(A)(B)-C50, AD0412(B)(C)-C50, where (A) may be L or M, (B) may be B, S or X, (C) may be H, L or M, (D) may be D or L.

Model Au05vw-xyz, where t may be B or D, u may be 03, 04, 05 or 45, v may be H, L or M, w may be B, S or X, x may be G or R, y may be 7, B or D, z may be 1, 3 or B.

Model AD2512(A), where (A) may be MB, MS or MX.

Model AD0812H(C)-A74GL, where (C) may be B, S or X.

Models AD12(A)(B)(F)-A72G2, AD12(A)(B)(F)-A71GL, where (A) may be 12 or 24, (B) may be H, L or M, (F) may be B, S or X.

Model AD12(X1)(X2)(X3)-F(X4), where (X1) may be 12, 24 or 48, (X2) may be H, L, M or U, (X3) may be B, S or X, (X4) may be 51, 52 or 53.

Model AD09(A)(B)(F)-(G), (A) may be 12 or 24, (B) may be H, L or M, (F) may be B, S or X, (G) may be AD0GL or AD2GL.

Model AD02(A)L(B)-G70, where (A) may be 05 or 12, (B) may be B, S or X; Model AD0205L(C)-G50, where (C) may be B or X.

An independent organization working for a safer world with integrity, precision and knowledge.

349050002



Model AD75(A)(B)(C), where (A) may be 12 or 24, (B) may be H or M, (C) may be B, S or X.
 Models AD09(A)(H)(C)-A74GL, AD0912(B)(C)-A76GL, where (A) may be 12 or 24, (B) may be H, L or M, (C) may be B, S or X.
 Model AD0924X-A7ZGL.
 Models AD4505H(B)-G70, AD4512(A)(B)-(C), where (A) may be H or M, (B) may be B, S or X, (C) may be G70 or G76.
 Model AD1224(A)(B)-A74GL, where (A) may be H, L or M, (B) may be B, S or X.
 Models AD0305L(X)-K70, AD0312L(X)-K70 where (X) may be B or X; Model AD0424MB-G70.
 Models AD0612M(B)-D70GL, where (B) may be B, X or S; Model AD0812MB-D76.
 Models AD0612H(Y)-A76GL, AD0612M(Y)-A76GL, AD0612L(Y)-A76GL, where (Y) may be B, S or X.
 Models AD0305L(X)-K70, AD0312L(X)-K70 where (X) may be B or X; Model AD0424MB-G70.
 Models AD0412H(Y)-D50, AD0412H(Y)-D56, AD0412L(Y)-D50, AD0412L(Y)-D56, AD0412M(Y)-D50, AD0412M(Y)-D56 where (Y) may be B, S or X.
 Model AD0612M(B)-D70GL where (B) may be B, S or X; Model AD0812MB-D76.
 Models AD0612H(Y)-A76GL, AD0612L(Y)-A76GL, AD0612M(Y)-A76GL where (Y) may be B, S or X.
 Models AD0612D(Y)-D70GL, AD0612D(Y)-D76GL, AD0612H(Y)-D70GL, AD0612H(Y)-D76GL, AD0612L(Y)-D70GL, AD0612L(Y)-D76GL, AD0612M(Y)-D70GL, AD0612M(Y)-D76GL, AD0624H(Y)-D70GL, AD0624H(Y)-D76GL, AD0624M(Y)-D70GL, AD0624M(Y)-D76GL, where (Y) may be B, S or X.
 Model AD0624UX-A79GL.
 Models AD0612XY-C72GL, AD0612XY-C73GL, AD0612XY-C76GL, AD0624XY-C70GL, AD0624XY-C76GL Series where X may be H, L or M, Y may be B, S or X.
 Model AP45(A)(B)(C)-(D), where (A) may be 05 or 12, (B) may be H, M or L, (C) may be B or X, (D) may be J or G, (E) may be 90 or 96.
 Models AD(P1)(P2)(P3)(P4)-G(P5), where (P1) may be 04, 05, or 45, (P2) may be 05, 12, or 24, (P3) may be L, M, H, or U, (P4) may be B, X, or S, and (P5) may be 70 or 76.
 Models AD02(A)(B)(C)-(D)(E), AD03(A)(B)(C)-(D)(E) and AD35(A)(B)(C)-(D)(E), where (A) may be 05 or 12; (B) may be L, M and D; (C) may be B or X; (D) may be G or D; (E) may be 50 or 53.
 Model AD(A)(B)(C)(D)-(E)(F), (A) may be 02, 04, 05, 08, (B) may be 05, 12 or 24, (C) may be H, M or L, (D) may be S, X or B, (E) may be D or G or K, (F) may be 53, 70, 71, 72, 76.
 Model ADabcd - e fgh, where (a) may be 04, 06, 08 or 09, (b) may be 05, 12 or 48, (c) may be U, H, M or L, (d) may be B, S or X, (e) may be A, D, G, J or K, (f) may be 7, 9, A or C, (g) may be 0, 1, 3 or 6, and (h) may be GL or blank.
 Model AD(A)45H(B)-(C)(D)(E), where (A) may be 08, 09 or 12, (B) may be B, S or X, (C) may be A or F, (D) may be 5 or 7, (E) may be GL or blank.
 Model AD(A)24(B)(C)-A7(D)GL, where (A) may be 09 or 12, (B) may be H or M, (C) may be B, S or X, and (D) may be 4 or A.
 Model AD0505(A)(B)-G70, where (A) may be H, M or L, and (B) may be B, S or X.
 Models AD0524HB-G70, AD0524HS-G70, AD0524HX-G70, AD0524MB-G70, AD0524MS-G70, AD0524MX-G70, AD0524LB-G70, AD0524LS-G70, AD0524LX-G70, AD0524HB-G76, AD0524HS-G76, AD0524HX-G76, AD0524MB-G76, AD0524MS-G76, AD0524MX-G76, AD0524LB-G76, AD0524LS-G76, AD0524LX-G76, AD0612UB-A71GL, AD0612US-A71GL, AD0612UX-A71GL, AD0612UB-A72GL, AD0612US-A72GL, AD0612UX-A72GL, AD0612UB-A73GL, AD0612US-A73GL, AD0612UX-A73GL.
 AD0412UBC50, AD0412UBC52, AD0412UBC56, AD0412UBD50, AD0412UBD52, AD0412UBD56, AD0412USC50, AD0412USC52, AD0412USC56, AD0412USD50, AD0412USD52, AD0412USD56, AD0412UXC50, AD0412UXC52, AD0412UXC56, AD0412UXD50, AD0412UXD52, AD0412UXD56, AD0412HBC50, AD0412HBC52, AD0412HBC56, AD0412HBD50, AD0412HBD52, AD0412HBD56, AD0412HSC50, AD0412HSC52, AD0412HSC56, AD0412HSD50, AD0412HSD52, AD0412HSD56, AD0412HXC50, AD0412HXC52, AD0412HXC56, AD0412HXD50, AD0412HXD52, AD0412HXD56, AD0412MBC50, AD0412MBC52, AD0412MBC56, AD0412MBD50, AD0412MBD52, AD0412MBD56, AD0412MSC50, AD0412MSC52, AD0412MSC56, AD0412MSD50, AD0412MSD52, AD0412MSD56, AD0412MXC50, AD0412MXC52, AD0412MXC56, AD0412MXD50, AD0412MXD52, AD0412MXD56, AD0412LBC50, AD0412LBC52, AD0412LBC56, AD0412LBD50, AD0412LBD52, AD0412LBD56, AD0412LSC50, AD0412LSC52, AD0412LSC56, AD0412LSD50, AD0412LSD52, AD0412LSD56, AD0412LXC50, AD0412LXC52, AD0412LXC56, AD0412LXD50, AD0412LXD52, AD0412LXD56.
 Model AD0612HB-D78GL.
 Models AD0812UB-A70GL, AD0812US-A70GL, AD0812UX-A70GL, AD0812UB-A76GL, AD0812US-A76GL, AD0812UX-A76GL, AD0812HB-A76GL, AD0812HS-A76GL, AD0812HX-A76GL, AD0812MB-A76GL, AD0812MS-A76GL, AD0812MX-A76GL, AD0812LB-A76GL, AD0812LS-A76GL, AD0812LX-A76GL, AD0912UB-A70GL, AD0912US-A70GL, AD0912UX-A70GL, AD0912UB-A76GL, AD0912US-A76GL, AD0912UX-A76GL, AD0912DB-A70GL, AD0912DS-A70GL, AD0912DX-A70GL, AD0612HB-G70, AD0612HS-G70, AD0612HX-G70, AD0612MB-G70, AD0612MS-G70, AD0612MX-G70, AD0612LB-G70, AD0612LS-G70, AD0612LX-G70, AD0612HB-G76, AD0612HS-G76, AD0612HX-G76, AD0612MB-G76, AD0612MS-G76, AD0612MX-G76, AD0612LB-G76, AD0612LS-G76, AD0612LX-G76, AD0312MX-G50
 Models AD0305MB-G53 and AP0412MX-C70.
 Models AD1212UB-F51, AD1212US-F51, AD1212UX-F51, AD1212UB-F52, AD1212US-F52, AD1212UX-F52, AD1212UB-F53, AD1212US-F53, AD1212UX-F53.
 Models AB5012HB-C06, AD7512LB, AD7512LS, AD7512LX, AD7512UB, AD7512US, AD7512UX, AD7524LB, AD7524LS, AD7524LX, AD7524UB, AD7524US, AD7524UX.
 Models AD0505HX-RBB and AD0505HX-RB0.
 Models AD0712HB-A70GL, AD0712HS-A70GL, AD0712HX-A70GL, AD0712MB-A70GL, AD0712MS-A70GL, AD0712MX-A70GL, AD0712LB-A70GL, AD0712LS-A70GL, AD0712LX-A70GL, AD0712HB-A76GL, AD0712HS-A76GL, AD0712HX-A76GL, AD0712MB-A76GL, AD0712MS-A76GL, AD0712MX-A76GL, AD0712LB-A76GL, AD0712LS-A76GL, AD0712LX-A76GL.
 Models AA1752HB-AW, AA1752HB-AT.
 Models AD0712(A)(B)-DA(C), where (A) may be U, H, M, L or D, (B) may be B, S or X, and (C) may be 0 or 6.
 Model AA1751(X)B-A(Y) where (X) may be H or M, (Y) may be T or W.
 Models AD0405(A)(B)-G(C), AD0412(A)(B)-G(C), where (A) may be H, M, or L, (B) may be B, S, or X, and (C) may be 71, 72, or 73.
 Model AD0205(A)(B)-Q53, (A) may be M, L or D, (B) may be B or X.
 Model AD4505MX-RB3.
 Model AD0405(A)(B)-GA3, where (A) may be H or M, (B) may be B or X.
 Model AD12(A)(B)(C)-A7(D)GL, where (A) may be 12 or 24, (B) may be H, M, L or U, (C) may be B, S or X, (D) may be 1, 2 or 3.
 Models AD5012(A)(B)-D7(C), where (A) may be H, M, L or U, (B) may be B, S or X, (C) may be 0 or 6.
 Models AD0812(A)(B)-C7(D), AD0824(C)(B)-C7(D), where (A) may be U, H, M or L, (B) may be B, S or X, (C) may be H or M, (D) may be 0 or 6.
 Models AD2005LB-G73 and AB0405HB-G03.
 Model AB7005(A)B-SA3; where (A) may be H, M or L.
 Model AD12(A)(B)(C)-(D)(E)(F); where (A) may be 12 or 24, (B) may be U, H, M, L or D; (C) may be B, S or X; (D) may be Y or A; (E) may be 51, 52, 53, 74 or 7A; (F) may be GL or blank.
 Models AE1281B, AE1281S and AE1281X.
 Model AD0812(A)(B)-D7(C); where (A) may be H, M or L; (B) may be B, S or X; (C) may be 1 or 3.



DC fans, Models AD0405UB-GA3, AD0405UX-GA3, AD0612(X)B-D9(Y), where (X) may be U or H, (Y) may be 1, 2, or 3.
 Model AD0305(X)(Y)-Q7(Z), where (X) may be H, M, or L, (Y) may be B or X, (Z) may be 1 or 3.
 Models AD0624(X)(Y)-A7(Z)GL where (X) may be U, H, or M, (Y) may be B, X, or S, (Z) may be 1, 2 or 3; Models AD5105HB-L06,
 AD4605HB-GC3; Models AD0605(X)(Y)-D7(Z)GL, AD0605(P)(Y)-A7(Z)GL, where (X) may be U, H, M or L, (Y) may be B, S, or X, (Z) may be
 1, 2 or 3, (P) may be H, M or L; Models AD0848H(X)-A7(Y)GL where (X) may be B, S or X, (Y) may be 0 or 6; Model AB0405UB-G03.
 DC Fans, Models AD0412(A)(B)-B3(C) where (A) may be H, M or L, (B) may be B, S or X, (C) may be 1, 2 or 3.
 Models AD0924XB-A71GL, AD0924XB-A72GL, AD0924XB-A73GL.
 Models AB3505HB-QB3, AB0605HB-E03, AD2705HB-Q73 and AD4505HB-H03.
 Models AB7012HB-E01, AB7012HB-E02, AB7012HB-E03.
 Models AB6812HX-GC0, AB6812MX-GC0, AB6812LX-GC0.
 Models AB7005HB-E0(X), AB6105HB-DC(X), where (X) may be 1, 2 or 3.
 Model AB0605(A)(B)-E0(C), where (A) may be H or M; (B) may be B, S or X; (C) may be 1, 2 or 3.
 Models AP5212(X)(Y)-E7(Z), where (X) may be H, M, L or D; (Y) may be X or B; (Z) may be 0 or 6.
 Models AB4805HB-L03, AB5505M(A)-GD(B) where (A) may be B or X; (B) may be 1, 2 or 3.
 Models AB3512(X)(Y)-QB(Z) where (X) may be U, H, M or L; (Y) may be B or X; (Z) may be 0 or 6.
 Model AD4505H(A)-GD(B), AB4505M(A)-GD(B), AB4505L(A)-GD(B), AD4505HB-T0(B), AD0605DB-D9(B), AD0712UB-D9(B), AB4512(X)(D)-
 QA(C), AD5012(X)(A)-D7(B), where (A) may be B, S or X; (B) may be 1, 2 or 3; (X) may be H, M or L; (D) may be B or X; (C) may be 0 or 6.
 Models AD0424(B)(Y)-D5(U), AD0612LS-D90, AD0612(X)(Y)-D7(Z)GL, AD0812(B)(Y)-D7(W), AD0812(A)(Y)-A7(Z)GL, AD0812HB-A70GL,
 AD0424(B)(Y)-C5(Z), where (A) may be X, U, H, M, L or D; (B) may be H, M or L (X) may be U, H, M, L or D; (Y) may be B, S or X; (U)
 may be 0 or 6; (W) may be 1 or 2; (Z) may be 1; 2 or 3.
 Models AD5012HB-S01, AD5012HB-S02, AD5012HB-S03.
 Model AD0812H(X)-A7BGL, where (X) may be B, S or X.
 Model AD0848HB-A7(X)GL, where (X) may be 1, 2 or 3.
 Model AD0205(X)(Y)-G50, where (X) may be H, M, L or D; (Y) may be B or X.
 Model AB3505(X)(Y)-QB0, where (X) may be H, M or L; (Y) may be B or X.
 Models AD0605HB-TB(X) where (X) may be 1, 2 or 3.
 Model AD0512(X)X-RB(Y) and AD0512(X)B-RB(Y), where (X) may be H or M; (Y) may be 0 or 6.
 Models AD0412UB-G7(Y), AD0412D(Z)-G7(Y), AB0605HB-TB(X), where (X) may be 1, 2 or 3; (Y) may be 0 or 6; (Z) may be B, S or X.
 Models AB3505(X)B-GA(Z), AB3505(X)X-GA(Z), AB5012(X)(Y)-C0(W), AD0812U(Y)-C7(W), AD0812(X)(Y)-C7(W), AD0812D(Y)-C7(W),
 where (X) may be H, M or L; (Y) may be B, S or X; (Z) may be 0 or 6; (W) may be 1, 2 or 3.
 Model AD0612M(X)-GA0 where (X) may be S, X or B.
 Model AD5512HB-SC(X), where (X) may be 1, 2 or 3.
 Model AD3505 (X) (Y) -G5 (Z), where (X) may be H, M or L, (Y) may be B or X; (Z) may be 1 or 2.
 DC Component Fans, Models AD0824H(X)-A7(Y)GL, AB0912HB-Z0(Z), AB0912MB-Z0(Z), AB0912LB-Z0(Z), where (X) may be B, S or X; (Y)
 may be A, 4 or 8; (Z) may be 1, 2 or 3.
 DC Component Fans, Models AD0612(X)(Y)-GA(Z) where (X) may be H, M or L; (Y) may be B, S or X; (Z) may be 0 or 6.
 DC Component Fans, Models AB0812HB-C03, AB6812HB-A03, AB7312HB-M03.
 DC Component Fans, Models AD0305(X)(A)-D50, AD3505HB-G52, AD0712U(Y)-A7(W)GL, AD0712(X)(Y)-A7(W)GL, AD0712(X)B-DA(W),
 AD0712DB-DA(W), AD0812D(Y)-A7(Z)GL, (A) may be B or X; where (X) may be H, M or L; (Y) may be B, S or X; (Z) may be 0 or 6; (W) may
 be 1, 2 or 3.
 AC Component Fans, Models AA1282(X)(Y)-A(Z)GL, AA1282(X)(Y)-A(Z)GL5 and AA1252M(Y)-A(Z)GL, where (X) may be H, M, L or D; (Y)
 may be B, X or S; (Z) may be T or W.
 DC Component Fans, Models AD0712U(X)-A7(Y)GP, AD0712H(X)-A7(Y)GP, AD0812U(X)-A7(Y)GL, AD0912U(X)-A7(Y)GL, where (X) may be
 B, X or S; (Y) may be B or 9.
 DC Component Fans, Models AD0405HB-GD(W), AD0505HB-C0(W), AB4512(X)(Y)-GD(Z), where (X) may be H, M or L; (Y) may be B, S or
 X; (W) may be 1, 2 or 3; (Z) may be 0 or 6.
 DC Component Fans, Models AQ0(X)(Y)(A)B-A7(Z)GL, AQ0(X)(Y)(B)B-A7(W)GL, where (X) may be 8 or 9; (Y) may be 12 or 24; (A) may be
 H, M or L; (B) may be M or L; (Z) may be 1, 2 or 3; (W) may be 0 or 6.
 DC component fans, Models AB0712HB-CC1, AB0712HB-CC2, AB0712HB-CC3.
 DC component fans, Model AD3512(X)(Y)-G5(W), where (X) may be H, M or L; (Y) may be B or X; (W) may be 1, 2 or 3.
 DC Fans, Models AD0712(Y)F-D9(A), AD0812(W)F-A7(A)GL, AD0724(Z)F-D9(A), AD0824(X)F-A7(A)GL, where (Y) may be H, M, L or D; (A)
 may be 1, 2, or 3; (W) may be U, H, M or L; (Z) may be U, H, M, L or D; (X) may be X, U, H, M or L.
 DC Fans, Models AD0612XB-D7(W)GL, AD0912UB-Y7(Y)GL, where (W) may be 1, 2, or 3; (Y) may be B or 9.
 DC Fans, Models AB6505HB-LB(A), AB5505HB-LB(A), AB7405HB-HB(A), AB0605HB-HB(A), AD0612HB-D0(A), where (A) may be 1 or 3.

Marking: Company name, model designation and the Recognized Component Mark for Canada, **RL**

See General Information Preceding These Recognitions
 For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.



Zertifikat Certificate



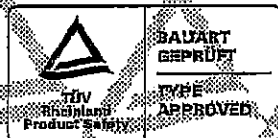
Zertifikat Nr. / Certificate No. R 2054481
Blatt / Page 01

Ihr Zeichen / Client Reference HP/Sporton
Unser Zeichen / Our Reference 00060-TCC/ICE E2064364E01
Ausstellungsdatum / Date of Issue 17.03.2006 (day/month)

Genehmigungsinhaber / License Holder
Adda Corporation
6, East Section, Industry 6 Road
Pingtung City 900
TAIWAN

Fertigungsstätte / Manufacturing Plant
Adda Corporation
6, East Section, Industry 6 Road
Pingtung City 900
TAIWAN

Prüfzeichen / Test Mark
Geprüft nach / Tested acc. to
EN 60950:1992+A1+A2+A3+A4+A11



Zertifiziertes Produkt (Geräteidentifikation) / Certified Product (Product Identification)
VENTILATOR (DC Fan)

Lizenzentgelte / Einheit / License Fee / Unit

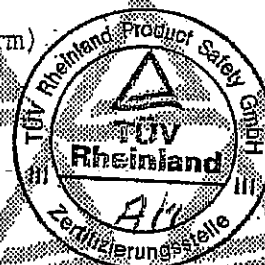
Bezeichnung (Type Designation)	: AD04X1X2Y1Y2-C50	1
	: AD04X1X2Y1Y2-C51	1
	: AD04X1X2Y1Y2-C52	1
	: AD04X1X2Y1Y2-C53	1
	: AD04X1X2Y1Y2-C56	1
	: AD04X1X2Y1Y2-KC3	1
X1, X2 steht für (stands for)	: 05, 12 oder (or) 24	1
Y1 steht für (stands for)	: L, H oder (or) M	1
Y2 steht für (stands for)	: B, X oder (or) S	1

Nennspannung (Rated Voltage) : siehe Aufbau-Übersicht (see Construction Dataform)

Nennstrom (Rated Current) : siehe Aufbau-Übersicht (see Construction Dataform)

Schutzklasse (Protection Class) : III

ANLAGE (Appendix) 1



Dem Zertifikat liegt unsere Prüf- 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.

Zertifizierungsstelle

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Page*
R 02054481 0004

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
12029360 ZTW2-MRC- 02064364 004 23.12.2004 (day/mo/yr)

Genehmigungsinhaber *License Holder*

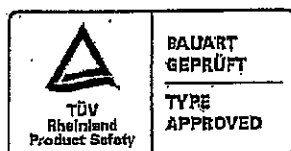
Adda Corporation
6, East Section, Industry 6 Road
Pingtung City 900
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*

Adda Corporation
6, East Section, Industry 6 Road
Pingtung City 900
Taiwan, R.O.C.

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 60950-1:2001



Zertifiziertes Produkt *(Geräteidentifikation)*
Certified Product (Product Identification)

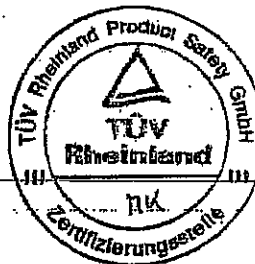
Lizenzentgelte - Einheit
License Fee - Unit

Ventilator *(DC Fan)*

Wie Blatt *(As Page)* 01

Änderung *(Change)*

Prüfgrundlage : siehe oben
(Test Requirement) (see above)



ANLAGE *(Appendix)*: 1

Dem Zertifikat liegt unsere Prüf- 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.

Zertifizierungsstelle

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

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com

Dipl.-Ing. M. Kröger