JOUJYE

DYNATRON

The Thermal Solution Architect

Product Spec sheet

B5

LGA 3647 Narrow

2U up / with Side-Blowing

Vision V1.0

Table of Contents

Model Number: B5

Recommend for Intel **Purely-EP/EX processor** , Socket LGA3647

For Narrow ILM Only

Active Cooler by Side-Blowing Cooling for 2U Server and up

Overall Specification:

Dimension: 108 x 80 x 66mm

Weight: 500g ±5g

6025 Side-Blow Fan with PWM Function

Material: Aluminum Stacked Fin with 4xHeat Pipes directly contact CPU

Convenient Heat Sink Captive Mounting

Thermal Grease Shin-Etsu 7762 Pre-printed

Support CPU Power up to 180 Watts Heat Dissipation

Included both Fabric and Non-Fabric package

Fan Specification:

Model Number: DF126025BM-PWMG

Dimension: 60 x 60 x 25 mm

Bearing: Double-Ball

Rated Voltage: 12V

Rated Speed:

- At Duty Cycle 0~20% : 1400±10% RPM
- At Duty Cycle 50% : 3500±10% RPM
- At Duty Cycle 100% : 7000±10% RPM.

Rated Input Power:

- At Duty Cycle 0~20% : 0.90 W
- At Duty Cycle 50% : 2.04W
- At Duty Cycle 100% : 5.40W

Rated Airflow:

- At Duty Cycle 0~20% : 8.12 CFM
- At Duty Cycle 50% : 20.31 CFM
- At Duty Cycle 100% : 40.60 CFM

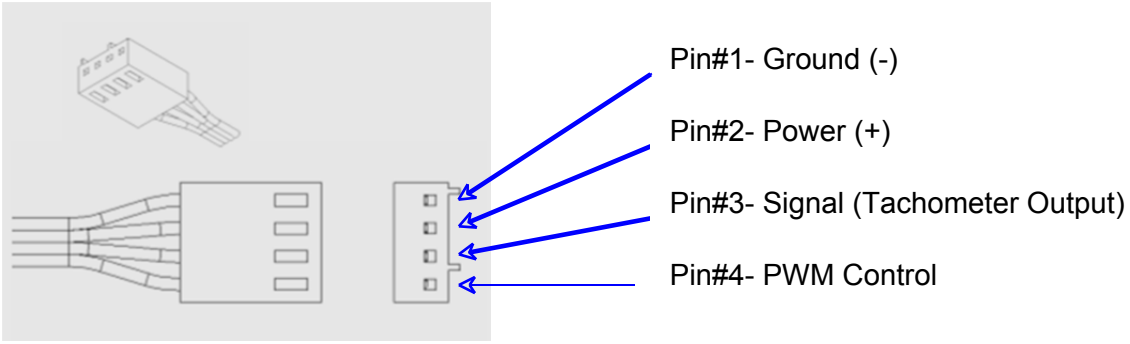
Rated Static Pressure:

- At Duty Cycle 0~20% : 0.58 mm-H_2O
- At Duty Cycle 50% : 3.65 mm-H_2O
- At Duty Cycle 100% : 13.58 mm-H_2O

Rated Acoustical Noise:

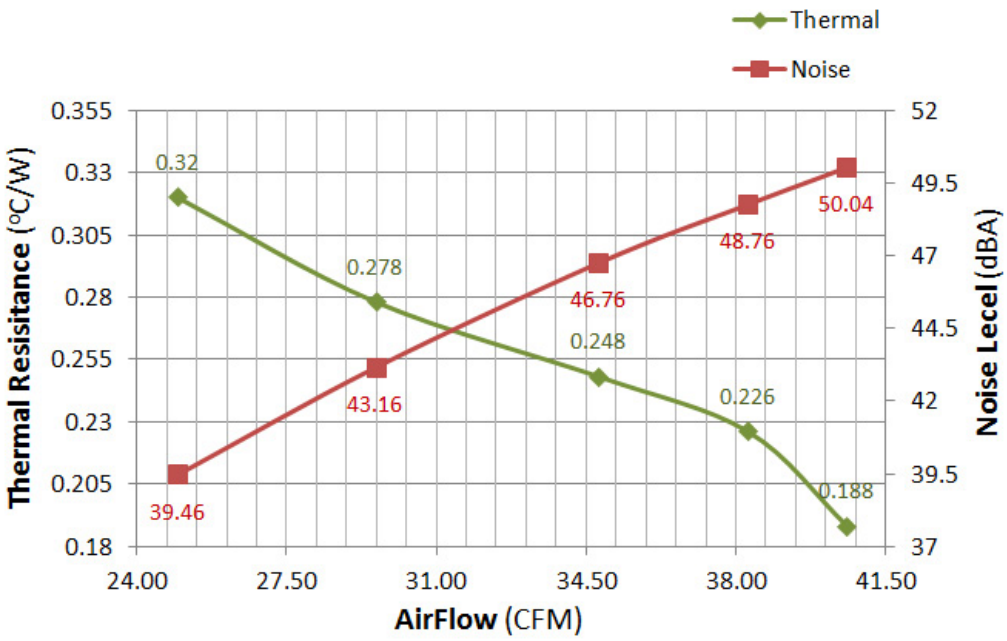
- At Duty Cycle 0~20% : 16.00 dBA
- At Duty Cycle 50% : 35.00 dBA
- At Duty Cycle 100% : 50.04 dBA

Lead Wire Pin Out Diagram :



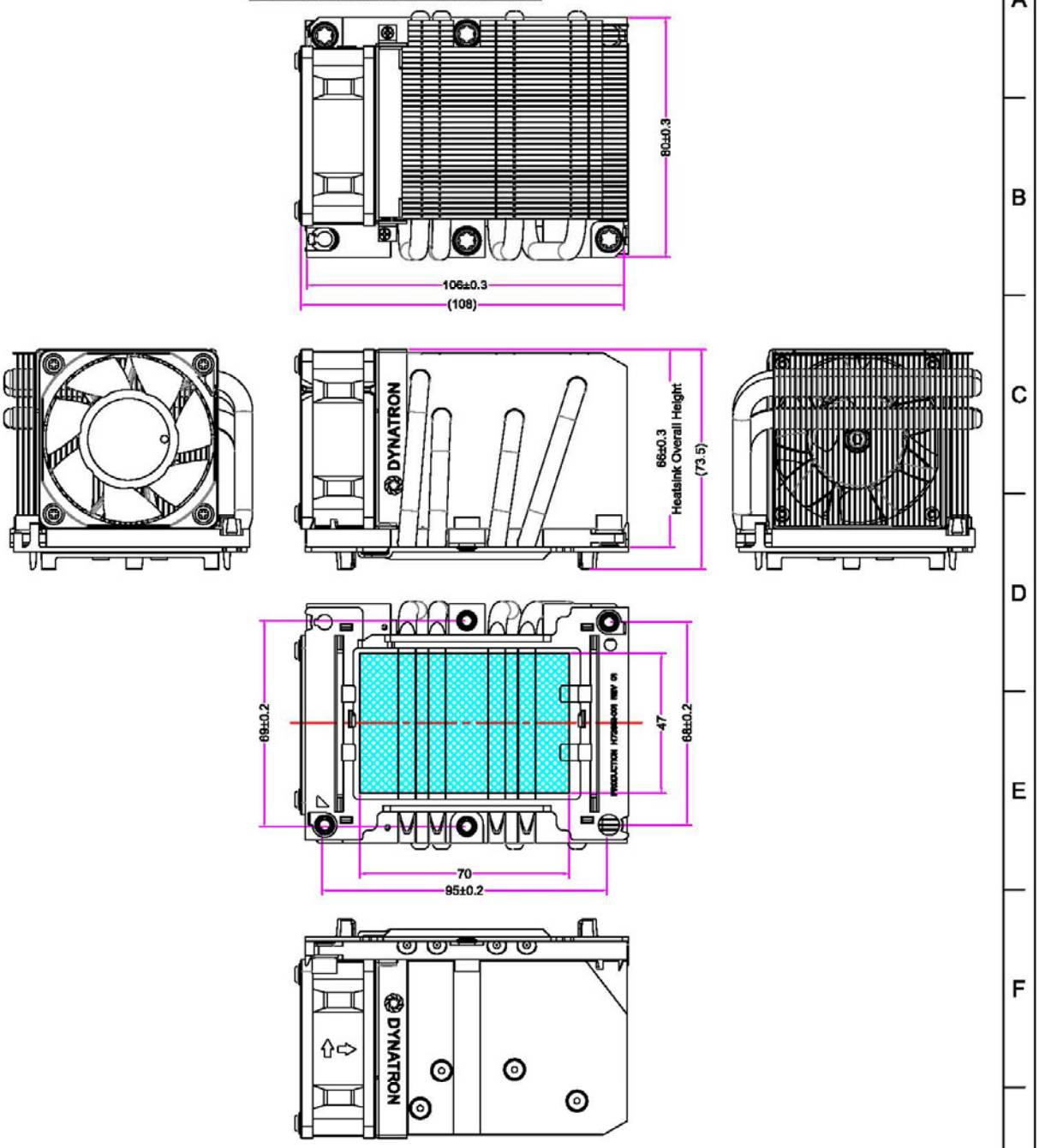
Thermal Performance Curve:

Active Cooler B5 Cooling Performance VS. Fan Speed & Noise:



REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	LANG	04/08/2016
1.0	FINAL DESIGN	LANG	01/12 /2017

Dimension Drawing

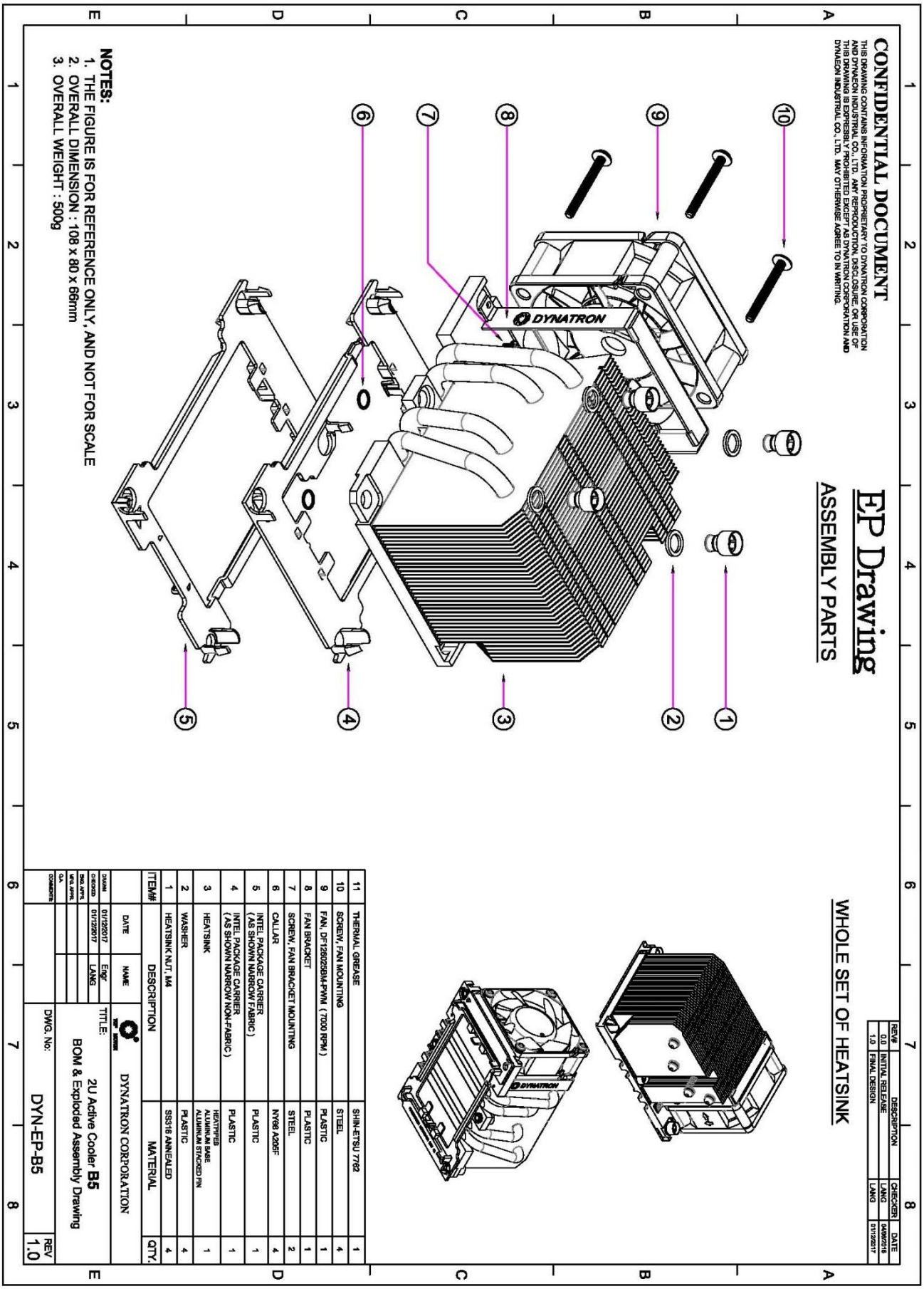


	NAME	DATE
DRAWN BY	engr	01/12/2017
CHECKED BY	LANG	01/12/2017
ENG.APPROVED		
MFG.APPROVED	-	-

DYNATRON CORPORATION
TOP MOTOR

TITLE: 2U Active Cooler **B5**
Overall Dimension Drawing

VIEW | UNITS: MM | DWG. No: DYN-DM-B5 | REV. 1.0


CONFIDENTIAL DOCUMENT
THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO DYNATRON CORPORATION AND DYNAEON INDUSTRIAL CO., LTD. ANY REPRODUCTION, DISCLOSURE, OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT AS DYNATRON CORPORATION AND DYNAEON INDUSTRIAL CO., LTD. MAY OTHERWISE AGREE TO IN WRITING.
EP Drawing
ASSEMBLY PARTS
WHOLE SET OF HEATSINK
NOTES:
1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE
2. OVERALL DIMENSION : 108 x 80 x 66mm
3. OVERALL WEIGHT : 500g
REV# DESCRIPTION CHECKER DATE
0.0 INITIAL RELEASE LANG 04/06/2016
1.0 FINAL DESIGN LANG 31/12/2017
11 THERMAL GREASE SHIN-ETSU 7762 1
10 SCREW, FAN MOUNTING STEEL 4
9 FAN, DF1282028IM-PWM (7000 RPM) PLASTIC 1
8 FAN BRACKET PLASTIC 1
7 SCREW, FAN BRACKET MOUNTING STEEL 2
6 CALLAR NYX6 A205F 4
5 INTEL PACKAGE CARRIER (AS SHOWN NARROW FABRIC) PLASTIC 1
4 INTEL PACKAGE CARRIER (AS SHOWN NARROW NON-FABRIC) PLASTIC 1
3 HEATSINK HEATPIPE8 ALUMINUM BASE ALUMINUM STACKED FIN 1
2 WASHER PLASTIC 4
1 HEATSINK NUT, M4 SS316 ANNEALED 4
ITEM# DESCRIPTION MATERIAL QTY.
DRAWN DATE 01/12/2017 NAME Engr
CHECKED 01/12/2017 LANG
ENG APPVL
MFG APPVL
Q.A.
COMMENTS
DYNATRON CORPORATION
TITLE: 2U Active Cooler B5
BOM & Exploded Assembly Drawing
DWG. No: DYN-EP-B5
REV 1.0

Specification for Approval

Customer:	
Model Number:	DF126025BM (60*60*25mm)
Part Number:	
Issued Date:	Tuesday, September 22, 2015
Version:	A

Customer Approval	
Approval:	Check:

Corporate Headquarters ***Dynatron Corporation*** 33200 Western Avenue Union City, CA 94587 U.S.A. Tel: 510-498-8888 Fax: 510-498-8488	*Taipei Office* *(Taiwan, R.O.C.)* 8F, No. 35,Lane:221 Gang Cian. Road, Taipei, Taiwan, R.O.C. Tel: 886-2-27995799 (Rep.) Fax: 886-2-2799-9577	Manufactory ***TOP MOTOR TECHNOLOGY(HUI ZHOU)CO,LTD*** Baishi Village,QiuchangTown, Huiyang Dist,HuizhouCity,Guangdong Province,P.R.China Tel: 86-752-822-8000 (Rep.) Fax: 86-752-822-8999

Approval:	Check:	Handler:
Simon Wang	-	Hui mei

1. SCOPE
This specification defines the electrical and mechanical characteristics of the ☐ AC / ■ DC Brush less (☐Liquid State /■2-Balls Bearing) axial flow fan, which is carefully designed and manufactured for your special needs by Dynatron Corporation.

2. ELECTRICAL CHARACTERISTICS

Items		Description		
1.	Rated Voltage	DC 12 V		
2.	Operating Voltage	10.8V~13.2V		
3.	PWM Frequency 25KHz	Duty Cycle D＝0~20%	Duty Cycle D＝50%	Duty Cycle D＝100%
4.	Start Voltage	7V		
5.	Air Flow – At rated voltage zero static pressure (minimal value)	0.230m³ / min (8.12CFM)	0.575m³ / min (20.31CFM)	1.152m³ / min (40.60CFM)
6.	Static Pressure – At rated voltage At zero air flow	0.58mm-H_2O (0.023inch-H_2O)	3.65mm-H_2O (0.135inch-H_2O)	14.58mm-H2O (0.574inch-H2O)
7.	Input Current (Max.)	0.075A	0.17A	0.45A
8.	Speed	1400RPM± 200	3400RPM± 10%	7000RPM± 10%
9.	Acoustical Noise	16.00dBA	35.00dBA	50.04dBA
10.	Input Power	0.90W	2.04W	5.40W
11.	Insulation Resistance – Between Frame and Terminal	10 M ohm at DC 500 V		
12.	Dielectric Strength – Between Frame and Terminal	5 mA (Max.) @ AC 500 V 60 Hz 1 min.		
13.	Life – Continuous operating under normal temperature (25 °C or 77 °F)	80,000 hours		
14.	Rotation	Anticlockwise Air Discharged		
15.	Auto restart Time	3-5sec		
16.	Lead Wires	UL 1007, awg 28 or Equivalent “-”: Black; “+”: Yellow; “S”: Green. “PWM”: Blue.		

3. MECHANICAL CHARACTERISTICS

Items		Description
1.	Dimension	Display as Drawing
2.	Frame	PBT UL94V-0 (Black GP)
3.	Impeller	PBT UL94V-0 (Black GP)
4.	Bearing System	Two Balls Bearing
5.	Weight	68±5grams

4. ENVIRONMENTAL

Items		Description
1.	Operating Temperature	- 10 °C ~ + 65 °C (65 %RH)
2.	Storage Temperature	- 30 °C ~ + 70 °C (65 %RH)
3.	Vibration Test	Displacement Amplitude: 0.75mm(Equivalent 10G) Frequency Range:10Hz<->55Hz/30SEC. Lineear Scanning 120 Cycle Endurance Timer Per Axis:30Min. Orientation:X,Y,Z.
4.	Drop Test	Motor withstands one free body drop from 30 cm in high onto 10 mm thickness of wooden board for each of the three faces in minimum packing condition.
5.	Acoustic Noise	16.00/34.36/50.04dBA – Curve (Max16.50/34.86/50.54dBA) Measuring Condition – Under rated voltage in semi-anechoic chamber equipment sound level meter. (Figure A.)

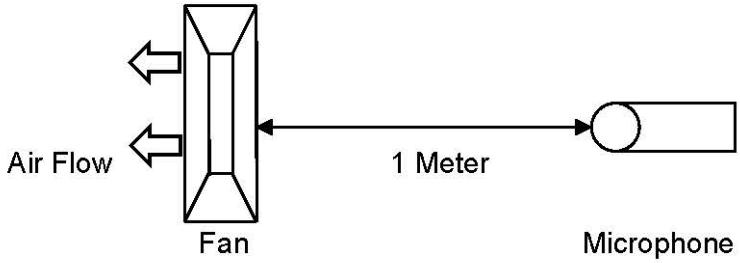


Figure A – Noise Level is measure at rated voltage in anechoic chamber in free air as above.

5. PROTECTION

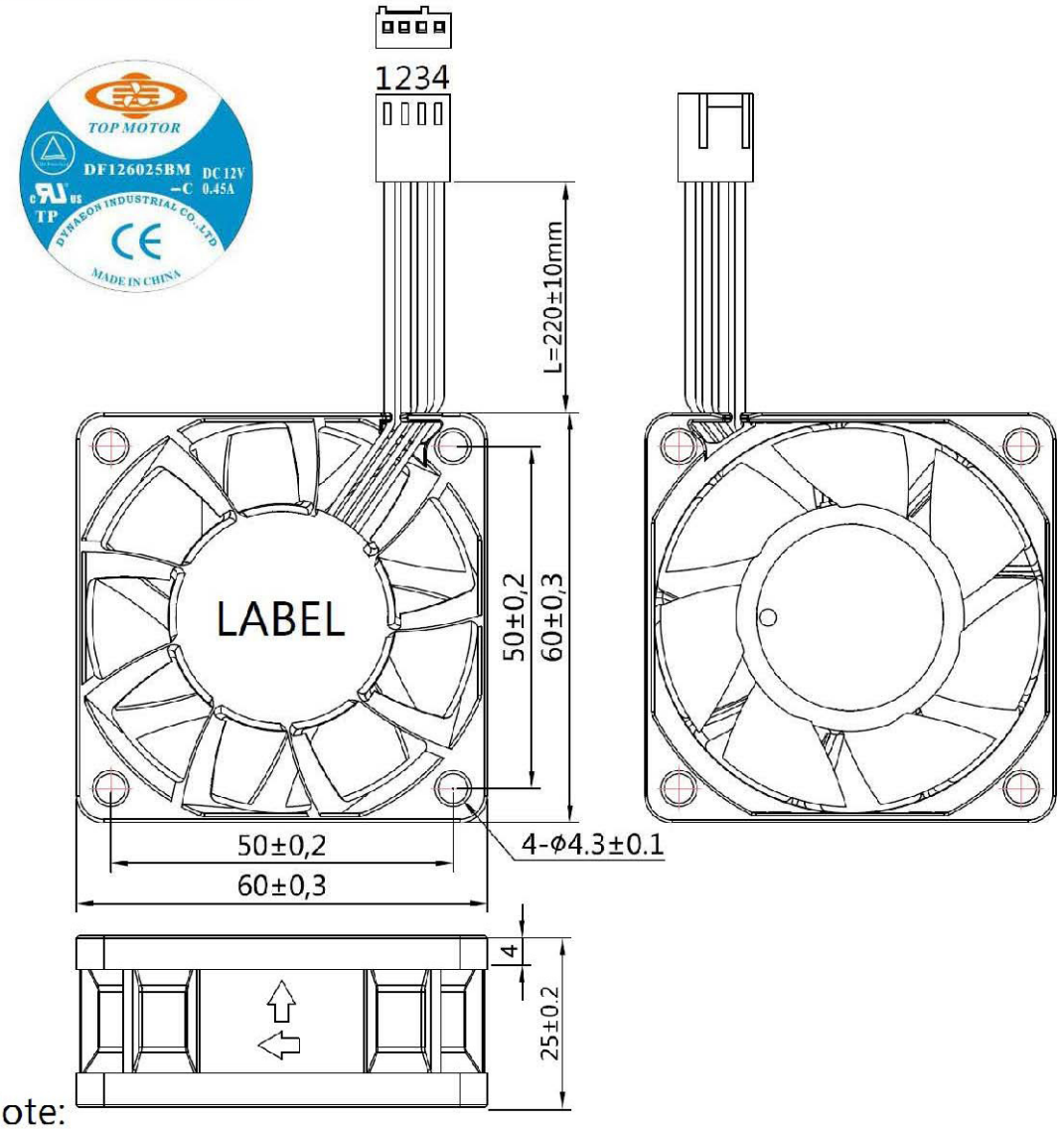
Items		Description
1.	Polarity Protection	For polarity error connection to power, the circuit withstands reversed connection between positive and negative leads.
2.	Locked Rotor Protection	Motor winding protects the motor from damage in 72 hours of locked rotor con dition at rated voltage.

6. ATTACHMENTS

6.1. Product Dimension
6.2. Frequency Generator Output
6.3. TUV Certificate
6.4. UL Certificate
6.5. Electrical Specifications for pwm production

6.1. Product Dimension

DIMENSION:



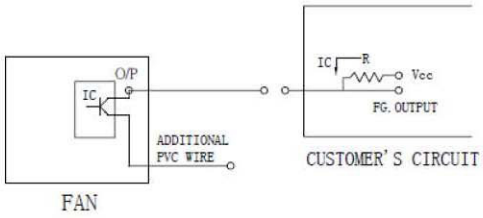
Note:

1. Lead Wire: 1007#28AWG 80°C 300V UL,CSA APPROVAL
   PIN 1: Black Wire ----- Ground
   PIN 2: Yellow Wire ----- Power
   PIN 3: Green Wire ----- Signal
   PIN 4: Blue Wire ----- PWM
2. Connector:White 2.54P-4P or Equivalent

6.2. Frequency Generator Output

FREQUENCY GENERATOR O/P:

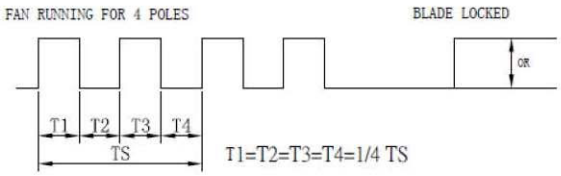
Frequency generator function is activated by an internal IC for customer's application.
Electrical schematic:



CUSTOMER'S CIRCUIT

Vcc = From +5 To +28 VDC (Generally using +12 or +24 VDC)
Ic = 5 mA max.
R = V/I (Output "R" value calculation)

- **SUPPLY A WAVEFORM:**

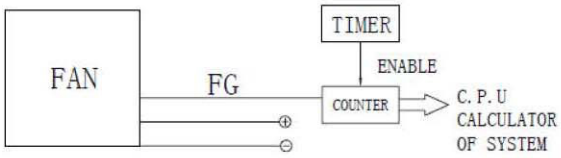


N=R.P.M. (Rotation speed will be different for various models L/M/H/HH/VH/SH)
TS=60/N (Sec)
* Voltage level after blade locked

- **OUTPUT LEVEL:**

High = Vcc 10%
Low = 0~0.5V
Ic = 5 mA max.

- **APPLICATION:**



- **FUNCTIONS:**

. By means of waveform & customer's design, schematic can reach alarm function, either in the form of buzzing or LED flashing. Adjust rotation speed.
. When power supply output voltage level decreases, it will result in the lowering of fan rotation speed. The irregular situation will be controlled by using FG. O/P through P/S circuit to increase the output voltage and result in a stable rotation speed.

6.3 Electrical Specifications for pwm production :

Electrical Specifications for PWM production

Voltage

Fan operating voltage shall be whthin the range 12V+/-1.2V.

Current

Peak fan current draw during start-up operation(with 13.2V applied,with fan operating in the free stream condifion)shall not exceed 2.0 A.

Fan current spike during start-up operation(with 13.2V applied with fan operating in the free stream condition)shall be allowed to exceed.1.0 A for a duration of no greater than 1.0 sec.

Tachometer Output Signal

Fan shall provide tachometer output signal with the following characteristics:

* Two pulses per revolution
* Open-collector or open-drain type output
* Motherboard will have a pull up to 12V, maximum 13.2V

PWM Control Input Signal

The following requirements are measured at the PWM(control) pin of the fan cable cnnector:PWM Frequency:Target frequency 25kHz, acceptable operational range 21 kHz to 28 Khz
Maximum voltage for logic low:VIL=0.8V
Absolute maximum current sourced:Imax=5mA(short circuit current)
Absolute maximum voltage level:Vmax=5.25V(open circuit voltage)

Fan Speed Control

1.1Maximum Fan Speed Requirements

The maximum fan speed shall be specified for the fan model by the vendor and correspond to 100% duty cycle PWM signal input.

1.2 Minimum Fan S peed Requirements

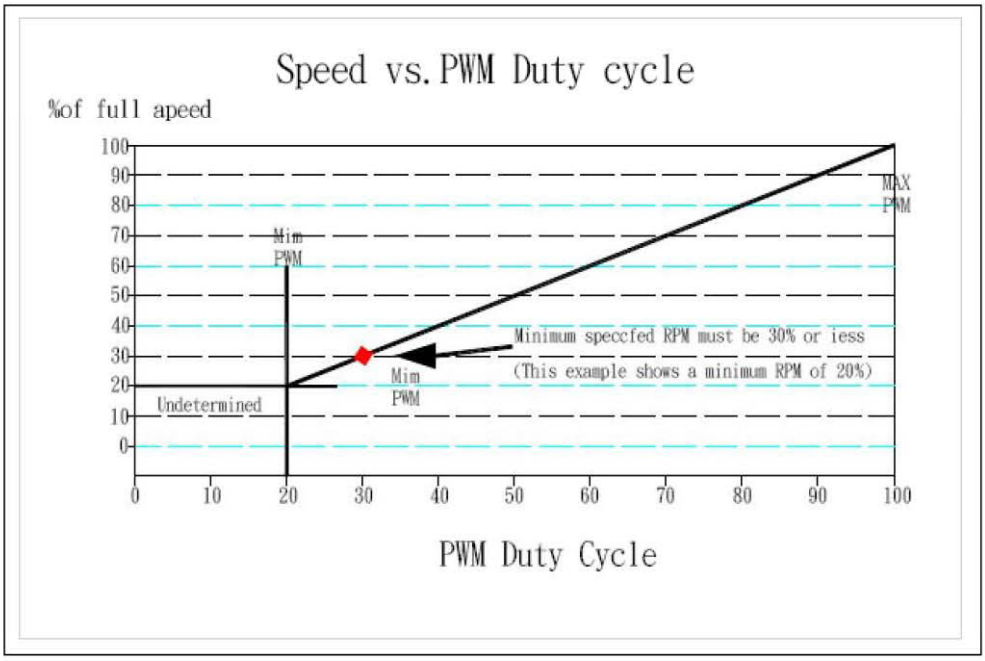
The vendor shall specify the minimum RPM and the corresponding PWM duty cycle. This specified minimum RPM shall be 30% of maximum RPM or less.The fan shall be able to start and run at this RPM. To allow a lower specified minimum RPM,it is acceptable to provide a higher PWM duty cycle to the fan motor for a short period of time for startup conditions.This pulse should not exceed 30% maximum RPM and should last no longer than 2 seconds.

USA Dynatron Corp.

1.3 Fan Speed Response PWM Control Input Signal

The PWM input shall be delivered to the fan through the control signal on Pin4.Fan speed response to this signal shall be a continuous and monotonic of the duty cycle of the signal,from 100% to the minimum specified RPM. The fan RPM (as a percentage of maximum RPM)should match the PWM duty cycle within ±10%.If no control signal is present the fan shall operate at maximum RPM.

Figure 1 Fan speed Response to PWM Control input Signal



1.4 Operation Below Minimum RPM

For all duty cycles less than the minimum duty cycle ,the RPM shall not be greater than the minimum RPM. The floolw ing graphs and definitions show three recommended solutions to handle PWM duty cycles that are less than the minimum operational PRM,as a percentage of maximum.

Reference resource by Intel's 4-wire PWM Fan controlled specification.

Representative Test Model : DF126025BM	Equipment: Oven 6025
Available for these models with lower speed and same physical structure. All model may be followed by Rxx or Fxx series suffixes. This test report applies to 60x60x25mm series as the right table	

◎ L10 Expectancy: 70,000 hours minimum@ fan rated voltage and the temperature of 40℃,

According to the equation for Weibull distribution, MTTF ≒ 7×L10 = 496,000 hours.

And we rely on a zero failure Weibull test strategy and accelerated testing technique, to determine the total test time (t) for verifying

the above life estimation by the equations,

$$t = 1.036 \times MTTF \times [(Br;c) \div n]^{0.91} \div A_F \text{ , and } A_F = 2^{(Ts-Tu)/10}$$

where, (Br;c) is Poisson distribution factor with the failure number of r equal to 0 and the decimal confidence level of

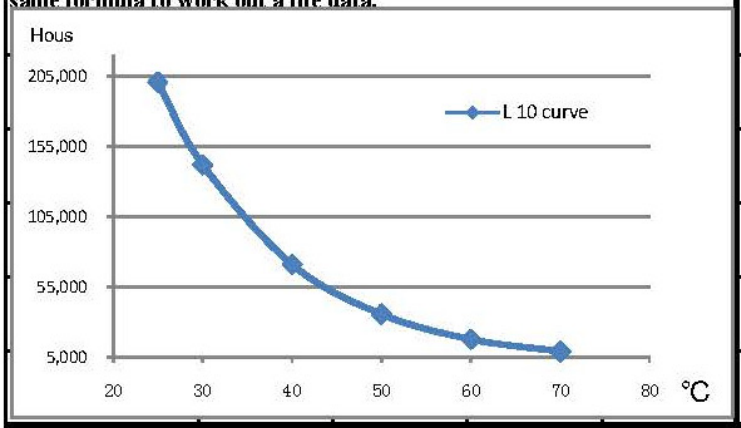
equal to 0.90(90%).

Stress/ Elevated Temperature Ts (℃)	Unstress Temperature Tu (℃)	Acceleration Factor A_F	Quantity of Test Devices n (pcs)	Poisson Distribution Factor Br;c	Required test time with zero failure t (hours)	Actual test time with zero failure t (hours)	Verified MTTF 40 ℃ (hours)	Verified L_{10} 40 ℃ (hours)
70	40	8	25	2.303	9,133	7,335	496,099	70,871

Test Progress:

Date for Test Beginning	Date for Test Termination	Current Test Status			Current Total Test Time (hours)
2011.1.10	2011.11.16	□ In process	☐ In process (exceed requested)	■ Termination	7,335

MTTF : means Mean Time To Failures, it should be used in a non-repairable system setting. Now we show the MTTF in our life report, that's because we will not repair the failed fans during life experiment.
MTBF: means Mean Time Between failures, it should be used in a repairable system setting. Basically , MTBF is equal to MTTF , they use same formula to work out a life data.



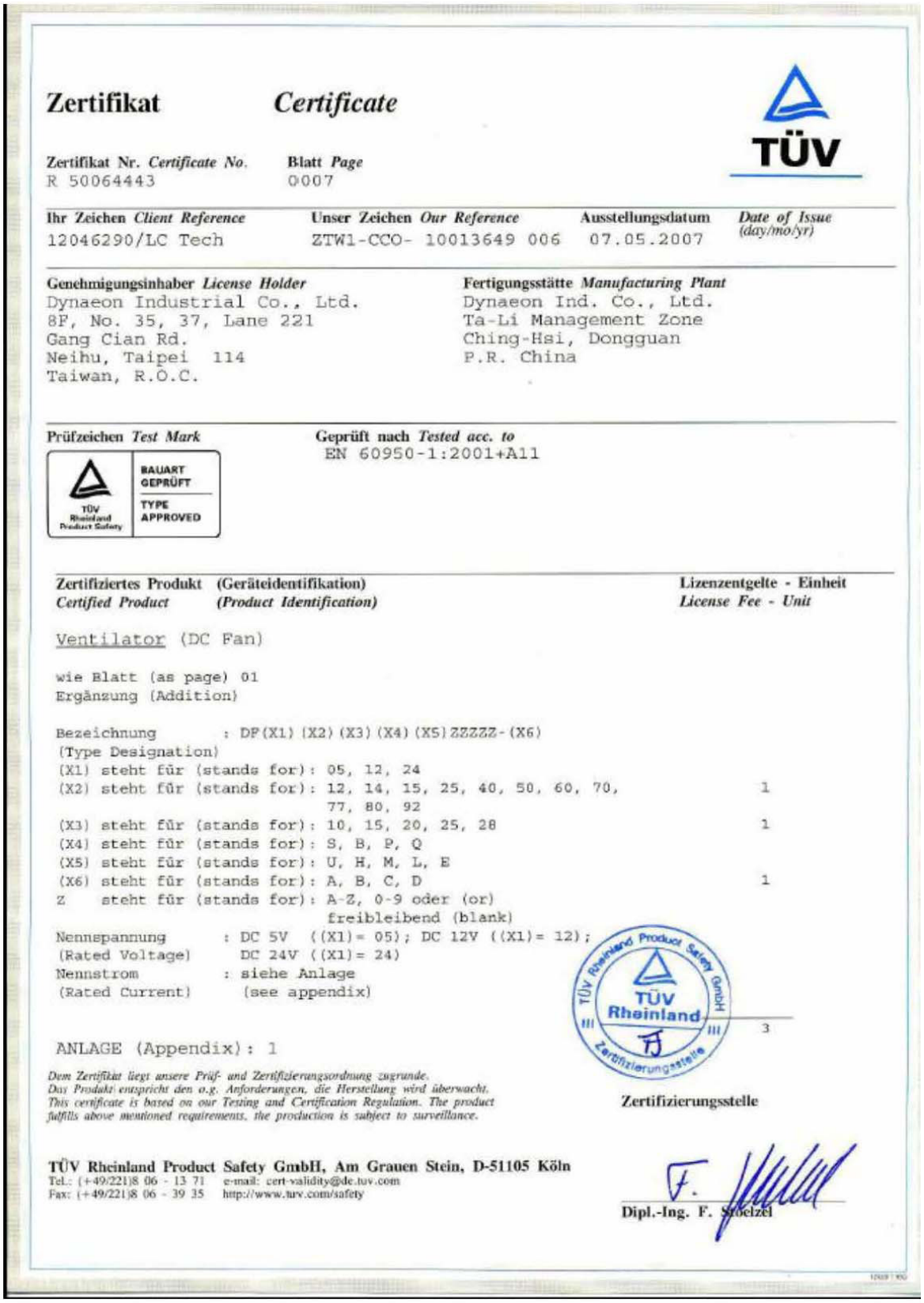
Temperature for MTTF Estimation (℃)	Acceleration Factor A_F	Estimated MTTF (hours)	Estimated L_{10} (hours)
25	22.63	1,403,180	200,454
30	16.00	992,198	141,743
40	8.00	496,099	70,871
50	4.00	248,049	35,436
60	2.00	124,025	17,718
70	1.00	62,012	8,859

failure Definition:
1. For current, the limit is less than spec.(+15 % max.)
2. For speed, the allowable descrease is less than 15%
3. For noise, the limit is less than spec.(max.) + 3 dB

Herewith , we could assume as right on the basis of above test result. Besides, if the actual test time exceed the required, it comes out that those fans' L10 expectancy and MTTF are greater than the warrant.

Evaluate		Issued Date	Report By	Approved By
■ Accept	☐ Reject	2011.11.18	chun sheng	Simon Wang

TUV Certificate:



Zertifikat ***Certificate***

TÜV

Zertifikat Nr. *Certificate No.* R 50064443 — **Blatt** *Page* 0007

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
12046290/LC Tech	ZTW1-CCO- 10013649 006	07.05.2007	

Genehmigungsinhaber *License Holder*
Dynaeon Industrial Co., Ltd.
8F, No. 35, 37, Lane 221
Gang Cian Rd.
Neihu, Taipei 114
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*
Dynaeon Ind. Co., Ltd.
Ta-Li Management Zone
Ching-Hsi, Dongguan
P.R. China

Prüfzeichen *Test Mark*
TÜV Rheinland Product Safety — BAUART 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 : DP(X1)(X2)(X3)(X4)(X5)ZZZZZ-(X6)
(Type Designation)
(X1) steht für (stands for): 05, 12, 24
(X2) steht für (stands for): 12, 14, 15, 25, 40, 50, 60, 70, 77, 80, 92 — 1
(X3) steht für (stands for): 10, 15, 20, 25, 28 — 1
(X4) steht für (stands for): S, B, P, Q
(X5) steht für (stands for): U, H, M, L, E
(X6) steht für (stands for): A, B, C, D — 1
Z steht für (stands for): A-Z, 0-9 oder (or) freibleibend (blank)
Nennspannung (Rated Voltage) : DC 5V ((X1)= 05); DC 12V ((X1)= 12); DC 24V ((X1)= 24)
Nennstrom (Rated Current) : siehe Anlage (see appendix)

TÜV Rheinland Product Safety GmbH — TÜV Rheinland — Zertifizierungsstelle — 3

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 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

F.
Dipl.-Ing. F. Strelzel

UL Certificate:

ONLINE CERTIFICATIONS DIRECTORY

GPWV2.E157868
Fans, Electric - Component

Page Bottom

Fans, Electric - Component

See General Information for Fans, Electric - Component

DYNAEON INDUSTRIAL CO LTD E157868
8TH FL 35 LANE 221 GANGCIAN RD
NEIHU DIST
TAIPEI, 114 TAIWAN

DC fans, Models D(F)1206(Z)(Y1)(X1), D(F)1207(Z)(Y1)(X1), where (F) may be F or C, (Z) may be SH, BH, BA, SM, BM, BB, SL, BL, BC, SD, BE, BF, SG, BI, BJ, SK, BN, BO, SP, BQ, BR, SS, BT, BU, SV, BW, BX, SY, BY or BZ, (Y1) may be "-", 0 through 9 or A through Z, (X1) may be 0 through 9 or A through Z.

Models DF248015(S)(X)(Y)(Z)(W), DF488015(S)(X)(Y)(Z)(W), where (S) may be S, B or P, (X) may be U, H, M or L, (Y) and (Z) may be any alphanumeric character, blank, "-" or any symbol, (W) may be seven any alphanumeric character, blank, "-" or any symbol.

Models DF121225(A)(B)(C), DF121225(A)E(C), DF241225(A)(B)(C), DF128015(A)U(C), DF128015(A)(B)(C), DF128025(A)U(C), DF128025(A)(B)(C), DF128025(A)E(C), DF248025(A)U(C), DF248025(A)(B)(C), DF129225(A)(B)(C), DF129225(A)E(C), DF249225(A)U(C), DF249225(A)(B)(C), DF126010(A)(B)(C), DF246025(A)U(C), DF246025(A)(B)(C), DF126025(A)U(C), DF126025(A)(B)(C), DF126025(A)E(C), DB126015BU(C), DB126015B(B)(C), DF123010(A)(B)(C), DF053010(A)(B)(C), DF127015(A)U(C), DF127015(A)(B)(C), DF245010(A)(B)(C), where (A) may be S, B, P or Q, (B) may be H, M or L, (C) may be xxxxxxxxx, where x may be A through Z, 0 through 9, "-" or blank.

Models DF122510(X)(Y2)(Z)-(M), DF124020(X)(Y2)(Z)-(M), DF244020(X)(Y1)(Z)-(M), DF126025(X)(Y3)(Z)-(M), DF246025(X)(Y3)(Z)-(M), DF121225(X)(Y1)(Z)-(M), DF124028(X)(Y3)(Z)-(M), where (X) may be S, B, P, Q, (Y1) may be H, M or L, (Y2) may be U, H, M or L, (Y3) may be U, H, M, L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank, (M) may be A or B.

Models DF054010(X)(Y2)(Z1)(Z2)-A, DF054010(X)L(Z1)(Z2)-B, DF124010(X)(Y2)(Z1)(Z2)-A, DF124010(X)L(Z1)(Z2)-B, DF244010(X)(Y2)(Z1)(Z2)-A, DF125015(X)(Y1)(Z1)(Z2)-A, DF125020(X)(Y3)(Z1)(Z2)-A, DF126015(X)(Y1)(Z1)(Z2)-A, DF246015(X)M(Z1)(Z2)-A, DF246015(X)L(Z1)(Z2)-A, DF128020(X)(Y1)(Z1)(Z2)-A, DF128020(X)L(Z1)(Z2)-B, DB127015(X)(Y2)(Z)-A series, where (X) may be S, B, P, Q, (Y1) may be H, M or L, (Y2) may be U, H, M or L, (Y3) may be H, M, L or E, (Z1) may be blank or 3, (Z2) is alphanumeric combination of four digits and/or alphabets, may be A through Z, 0 through 9 or blank, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF125010(X)(Y)(Z)-A, DF126020(X)(Y)(Z)-A, DF246020(X)(Y)(Z)-A, DF121525(X)(Y1)(Z)-A, DF121525(X)(Y2)(Z)-B series, Where (X) may be S, B, P or Q, (Y) may be H, M or L, (Y1) may be U, H or M, (Y2) may be L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 th1rough 9 or blank.

Models DF128025(X)(a)(Y)-A, DF121225(X)(b)(Y)-C, DF121225(X)E(Y)-C, DF127720(X)(a)(Y)-A, DF121425(X)(c)(Y)-A, DF126010(X)E(Y)-A series, where (X) may be S, B, P, Q, (a) may be H, M, L or E, (b) may be M or L, (c) may be U, H, M, L or E, (Y) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF054010(X)(Y1)(Z1)(Z2)-C, DF124010(X)(Y2)(Z1)(Z2)-C, DF244010(X)(Y2)(Z1)(Z2)-C, DF124020BU(Z1)(Z2)-C, DF124020(X)(Y1)(Z1)(Z2)-C, DF124028BU(Z1)(Z2)-C, DF124028(X)(Y1)(Z1)(Z2)-C, DF126025BU(Z1)(Z2)-C, DF126025(X)(Y1)(Z1)(Z2)-C, DF127015BU(Z1)(Z2)-A, DF127015(X)(Y1)(Z1)(Z2)-A, DF128025BU(Z1)(Z2)-B, DF128025(X)(Y1)(Z1)(Z2)-B, DF129225BU(Z1)(Z2)-A, DF129225(X)(Y1)(Z1)(Z2)-A, DF121225BU(Z1)(Z2)-D, DF121225(X)(Y1)(Z1)(Z2)-D, DF121425(X)(Y1)(Z1)(Z2)-B, DB127015BU(Z1)(Z2)-B, DB127015(X)(Y1)(Z1)(Z2)-B, DB058015(X)(Y3)(Z1)(Z2)-A, where (X) may be S, B, P or Q, where(Y1) may be H, M, L or E, where (Y2) may be U, H, M, L or E, where (Y3) may be M or L, where (Z1) may be blank or 3, where (Z2) may be is alphanumeric combination of four digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DB128015(X)(Y1)-(Z)-A, DF128038(X)(Y1)-(Z)-A, DB121225(X)(Y2)-(Z)-A, DF054010(X)(Y2)-(Z)-D, DF124010(X)(Y3)-(Z)-D, DF244010(X)(Y4)-(Z)-D, DF125010(X)(Y2)-(Z)-B, DF126010(X)(Y5)-(Z)-B series, where (X) may be S, B, P, Q, (Y1) may be U, H, M, L or E, (Y2) may be H, M or L, (Y3) may be U, M, L or E, (Y4) may be U, H, M or L, (Y5) may be H, M, L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Electric fans, Models DC0504, -1204, -1205, -1206 , DF1204, -1208, -2408, -0504, -0505, -1205, -2406 followed by "S" or

"B", followed by two alphanumeric characters.

Low voltage fans, Models DB1206, DF1209, -1212, -2409, DH1204 followed by B or S, followed by two alphanumeric characters.

Marking: Company name or trademark 

and model designation.

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Fans, Electric Certified for Canada - Component

See General Information for Fans, Electric Certified for Canada - Component

DYNAEON INDUSTRIAL CO LTD E157868
8TH FL 35 LANE 221 GANGCIAN RD
NEIHU DIST
TAIPEI, 114 TAIWAN

DC fans, Models D(F)1206(Z)(Y1)(X1), D(F)1207(Z)(Y1)(X1), where (F) may be F or C, (Z) may be SH, BH, BA, SM, BM, BB, SL, BL, BC, SD, BE, BF, SG, BI, BJ, SK, BN, BO, SP, BQ, BR, SS, BT, BU, SV, BW, BX, SY, BY or BZ, (Y1)may be "-", 0 through 9 or A through Z, (X1) may be 0 through 9 or A through Z.

Models DF248015(S)(X)(Y)(Z)(W), DF488015(S)(X)(Y)(Z)(W), where (S) may be S, B or P, (X) may be U, H, M or L, (Y) and (Z) may be any alphanumeric character, blank, "-" or any symbol, (W) may be seven any alphanumeric character, blank, "-" or any symbol.

Models DF121225(A)(B)(C), DF121225(A)E(C), DF241225(A)(B)(C), DF128015(A)U(C), DF128015(A)(B)(C), DF128025(A)U(C), DF128025(A)(B)(C), DF128025(A)E(C), DF248025(A)U(C), DF248025(A)(B)(C), DF129225(A)(B)(C), DF129225(A)E(C), DF249225(A)U(C), DF249225(A)(B)(C), DF126010(A)(B)(C), DF246025(A)U(C), DF246025(A)(B)(C), DF126025(A)U(C), DF126025(A)(B)(C), DF126025(A)E(C), DB126015BU(C), DB126015B(B)(C), DF123010(A)(B)(C), DF053010(A)(B)(C), DF127015(A)U(C), DF127015(A)(B)(C), DF245010(A)(B)(C), where (A) may be S, B, P or Q, (B) may be H, M or L, (C) may be xxxxxxxxx, where x may be A through Z, 0 through 9, "-" or blank.

Models DF122510(X)(Y2)(Z)-(M), DF124020(X)(Y2)(Z)-(M), DF244020(X)(Y1)(Z)-(M), DF126025(X)(Y3)(Z)-(M), DF246025(X)(Y3)(Z)-(M), DF121225(X)(Y1)(Z)-(M), DF124028(X)(Y3)(Z)-(M), where (X) may be S, B, P, Q, (Y1) may be H, M or L, (Y2) may be U, H, M or L, (Y3) may be U, H, M, L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank, (M) may be A or B.

Models DF054010(X)(Y2)(Z1)(Z2)-A, DF054010(X)L(Z1)(Z2)-B, DF124010(X)(Y2)(Z1)(Z2)-A, DF124010(X)L(Z1)(Z2)-B, DF244010(X)(Y2)(Z1)(Z2)-A, DF125015(X)(Y1)(Z1)(Z2)-A, DF125020(X)(Y3)(Z1)(Z2)-A, DF126015(X)(Y1)(Z1)(Z2)-A, DF246015(X)M(Z1)(Z2)-A, DF246015(X)L(Z1)(Z2)-A, DF128020(X)(Y1)(Z1)(Z2)-A, DF128020(X)L(Z1)(Z2)-B, DB127015(X)(Y2)(Z)-A series, where (X) may be S, B, P, Q, (Y1) may be H, M or L, (Y2) may be U, H, M or L, (Y3) may be H, M, L or E, (Z1) may be blank or 3, (Z2) is alphanumeric combination of four digits and/or alphabets, may be A through Z, 0 through 9 or blank, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF125010(X)(Y)(Z)-A, DF126020(X)(Y)(Z)-A, DF246020(X)(Y)(Z)-A, DF121525(X)(Y1)(Z)-A, DF121525(X)(Y2)(Z)-B series, Where (X) may be S, B, P or Q, (Y) may be H, M or L, (Y1) may be U, H or M, (Y2) may be L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 th1rough 9 or blank.

Models DF128025(X)(a)(Y)-A, DF121225(X)(b)(Y)-C, DF121225(X)E(Y)-C, DF127720(X)(a)(Y)-A, DF121425(X)(c)(Y)-A, DF126010(X)E(Y)-A series, where (X) may be S, B, P, Q, (a) may be H, M, L or E, (b) may be M or L, (c) may be U, H, M, L or E, (Y) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF054010(X)(Y1)(Z1)(Z2)-C, DF124010(X)(Y2)(Z1)(Z2)-C, DF244010(X)(Y2)(Z1)(Z2)-C, DF124020BU(Z1)(Z2)-C, DF124020(X)(Y1)(Z1)(Z2)-C, DF124028BU(Z1)(Z2)-C, DF124028(X)(Y1)(Z1)(Z2)-C, DF126025BU(Z1)(Z2)-C, DF126025(X)(Y1)(Z1)(Z2)-C, DF127015BU(Z1)(Z2)-A, DF127015(X)(Y1)(Z1)(Z2)-A, DF128025BU(Z1)(Z2)-B, DF128025(X)(Y1)(Z1)(Z2)-B, DF129225BU(Z1)(Z2)-A, DF129225(X)(Y1)(Z1)(Z2)-A, DF121225BU(Z1)(Z2)-D, DF121225(X)(Y1)(Z1)(Z2)-D, DF121425(X)(Y1)(Z1)(Z2)-B, DB127015BU(Z1)(Z2)-B, DB127015(X)(Y1)(Z1)(Z2)-B, DB058015(X)(Y3)(Z1)(Z2)-A, where (X) may be S, B, P or Q, where (Y1) may be H, M, L or E, where (Y2) may be U, H, M, L or E, where (Y3) may be M or L, where (Z1) may be blank or 3, where (Z2) may be is alphanumeric combination of four digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DB128015(X)(Y1)-(Z)-A, DF128038(X)(Y1)-(Z)-A, DB121225(X)(Y2)-(Z)-A, DF054010(X)(Y2)-(Z)-D, DF124010(X)(Y3)-(Z)-D, DF244010(X)(Y4)-(Z)-D, DF125010(X)(Y2)-(Z)-B, DF126010(X)(Y5)-(Z)-B series, where (X) may be S, B, P, Q, (Y1) may be U, H, M, L or E, (Y2) may be H, M or L, (Y3) may be U, M, L or E, (Y4) may be U, H, M or L, (Y5) may be H, M, L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Electric fans, Models DC0504, -1204, -1205, -1206 , DF0504, -0505, -1204, -1205, -1208, -2406, -2408 followed by "S" or

"B", followed by two alphanumeric characters.

Low voltage fans, Models DB1206, DF1209, -1212, -2409, DH1204 followed by B or S, followed by two alphanumeric characters.

Marking: Company name or trademark 

, model designation and Recognized Component Mark for Canada,

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Certificate of Environment Protectio
環保證明書

Document Number: RH-B3-R0

Customer: 客戶名稱:	***Company:*** _____ ***Address:*** _____ ***Phone Number:*** _____ - _____- _____
Issue Date:	06/02/2016
Product Model Number:	*B5*

Dynatron Corporation hereby declares and certifies that all components manufactured are RoHS compliant according to the definitions and restrictions given by the European Union's Restriction (Directive 2002/95/EC) (Decision2011/65/EU)RoHS 2, on the restriction of the use of certain Hazardous Substances in the electrical and electronic equipment. Also, compliance to the most recent list of substances on the REACH candidate list.

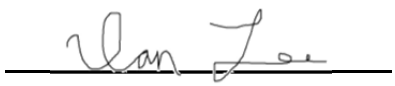
Number of substances on the Candidate List: 168 (last updated: 17/12/2015)

No exemptions are claimed in order for the part to be compliant with the RoHS directive.

Dynatron Corporation / 政久興業股份有限公司證明所有產品,零件 (包括附屬品, 包裝類) 之環境管理物質完全符合 RoHS, WEEE, 及該環保標準之規定, 並承諾遵 循以上之證明.

Dynatron Corporation.
33200 Western Ave,
Union City, CA 94587
www.Dynatron-corp.com

Title (職務): ASSISTANT-MANAGER

Signature (簽字): 

Date: 06 / 02 / 2016