EVERFLOW

MOTOR YOUR LIFE

EVERFLOW

SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	DC Fan
EVERFLOW PART No.	:	F128038BMAF8F6AR
CUSTOMER PART No.	:	N/A
SAMPLE No.	:	EF-E25030067
DOCUMENT No.	:	121729
DATE	:	2025/4/17
REVISION	:	A

CUSTOMER APPROVED BY

APPROVED BY	CHECKED BY	PREPARED BY
KevinWu	工程部 2025.04.17 龙品凤	Tang Rong

鑫賀 EVERFLOW PRECISION ELECTRONICS(DONGGUAN) CO., LTD.

GEKENG YANJIANG INDUSTRIAL ZONE, HENG LI TOWN, DONG GUAN CITY, GUANG DONG.

TEL: 86-0769-83796589 83796590

FAX: 86-0769-83797588 83727163

http://www.everflowtech.com

HISTORY

Rev.	DESCRIPTION	DATE
A	NEW VERSION	2025/4/17

1. SCOPE

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FAN AND BLOWER FAN.

2. CHARACTERS

No.	ITEM	SPECIFICATION
2 - 1	Rated Voltage	12.0V DC
2 - 2	Starting Voltage	N/A
2 - 3	Operating Voltage Range	10.8V ~ 12.6V DC
2 - 4	Rated Current	1.80A (Max. 2.00A) Duty cycle =100%
2 - 5	Rated Power	21.60W (Max. 24.00 W) Duty cycle =100%
2 - 6	Start Peak Current	N/A In Free Air & At 12V DC
2 - 7	UL Current On Label	2.00A
2 - 8	Rated Speed	3500±10% RPM Duty cycle =0~10% 12000±10% RPM Duty cycle =100% (Testing Speed at Ambient Temperature of 25°C)
2 - 9	Air Flow (At Zero Static Pressure)	99.70 CFM (Min. 89.73 CFM) 2.82 m^3/min (Min. 2.54 m^3/min) Duty cycle =100%
2 - 10	Static Pressure (At Zero Air Flow)	49.75 mm-H_2O (Min. 40.30 mm-H_2O) 1.96 inch-H_2O (Min. 1.59 inch-H_2O) Duty cycle =100%
2 - 11	Sound Pressure Level	64.0 dB(A) [Max. 66.0 dB(A)]
2 - 12	Product Type	☑ RoHS ☐ HF
2 - 13	Life Expectancy	50000 HRS at 40°C, 65% humidity and 90% CL.
2 - 14	Bearing Type	☑ Two Ball ☐ EBR ☐ Ball And Sleeve
2 - 15	Protection & Function	☑ Locked Protection ☐ Impedance Protection ☐ Hot Swap Protection ☐ Current-Limit ☑ Polarity Protection ☐ E-Brake ☑ Auto-Restart
2 - 16	Pole	☑ 4 Pole ☐ 8 Pole ☐ Three Phase
2 - 17	Signal Output	Frequency Generator (FG)
2 - 18	Safety Approval	☑ CE ☑ TUV ☑ UL ☑ UKCA

3. MECHANICAL

No.	ITEM	SPECIFICATION
3 - 1	DIMENSIONS	SEE DIMENSIONS DRAWING
3 - 2	FRAME	☑ PBT (BLACK) PLASTIC (UL 94V-0) ☐ PC PLASTIC (UL 94V-2)
3 - 3	IMPELLER	☑ PBT (BLACK) PLASTIC (UL 94V-0) ☐ PC PLASTIC (UL 94V-2)
3 - 4	WEIGHT	200 GRAMS (REF)

4. ENVIRONMENTAL

4 - 1 OPERATING TEMPERATURE ———— - 10℃ ~ 70℃

4 - 2 STORAGE TEMPERATURE ———— - 20℃ ~ 75℃

4 - 3 OPERATING HUMIDITY ———— 5 TO 90% RH

4 - 4 STORAGE HUMIDITY ———— 5 TO 95% RH

4 - 5 DIRECTION OF ROTATION ———— ☐ CLOCKWISE

☑ COUNTER-CLOCKWISE

VIEWED FROM FRONT OF FAN BLADE.

4 - 6 DIELECTRIC STRENGTH ——— 5 mA MAX. AT 500V AC 60Hz ONE MINUTE. [BETWEEN FRAME AND (+)TERMINAL]

4 - 7 INSULATION STRENGTH ——— 10MEG OHM MIN. AT 500V DC. [BETWEEN FRAME AND (+)TERMINAL]

4 - 8 DROP TEST ——— IN MINIMUM PACKAGING CONDITION, FAN WITHSTAND EACH ONE DROP OF THREE FACES FROM 30cm DISTANCE HEIGHT ONTO 10mm THICKNESS OF WOODEN BOARD.

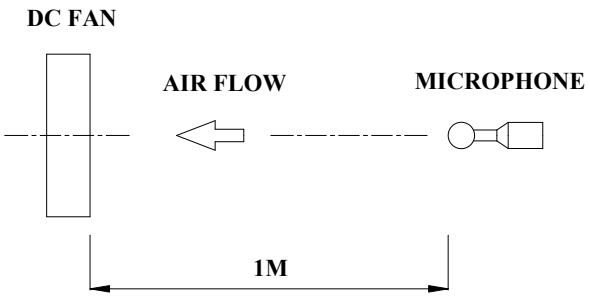
4 - 9 VIBRATION TEST ——— TEMPERATURE: 25℃.
ORIENTATION: X, Y, Z.
POWER：NON-OPERATING.
VIBRATION LEVEL：OVERALL gRMS = 3.2

FREQUENCY(Hz)	PSD (G^2/Hz)
10	0.040
20	0.100
40	0.100
800	0.002
1000	0.002

TEST TIME: 2 HRS FOR EACH DIRECTION.

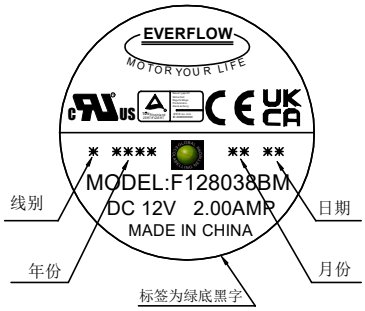
4 - 10 SHOCK TEST ——— TEMPERATURE: 25 °C.
ORIENTATION: X, Y, Z.
POWER: NON-OPERATING.
ACCELERATION: 50G MAX.
PULSE: 11ms HALF-SINE WAVE
NUMBER OF SHOCKS: 5 SHOCKS FOR EACH DIRECTION.

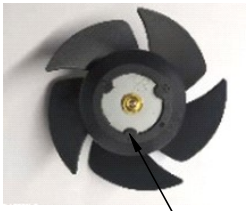
4 - 11 NOISE TEST ——— MEASURED IN A SEMI-ANECHOIC CHAMBER WITH BACKGROUND NOISE LEVEL BELOW 15 dB(A). THE FAN IS RUNNING IN FREE AIR WITH THE MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE.
NOISE TESTER MODEL: AWA14411.



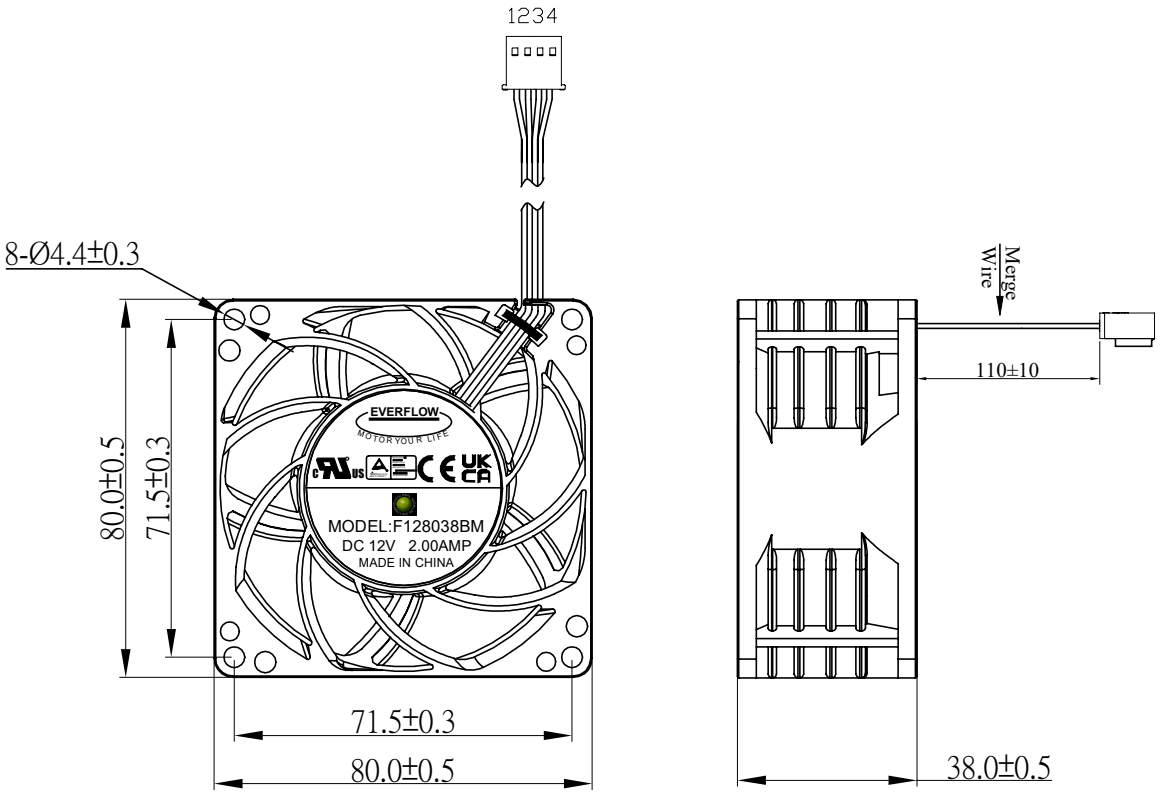
5. DIMENSIONS DRAWING (Unit: mm)

EF Part No. : F128038BMAF8F6AR





进胶点边上加胶
改善后扇叶图面



NOTES:

1. LEAD WIRE UL 1007 AWG#26
   - PIN 1: BLACK WIRE---(-)
   - PIN 2: BLACK WIRE---(+)
   - PIN 3: BLACK WIRE---(SIGNAL)
   - PIN 4: BLACK WIRE---(PWM INPUT)
2. HOUSING: 5102-4P (WHITE) OR EQUIVALENT

备注：
線材表面會有白色條紋標識

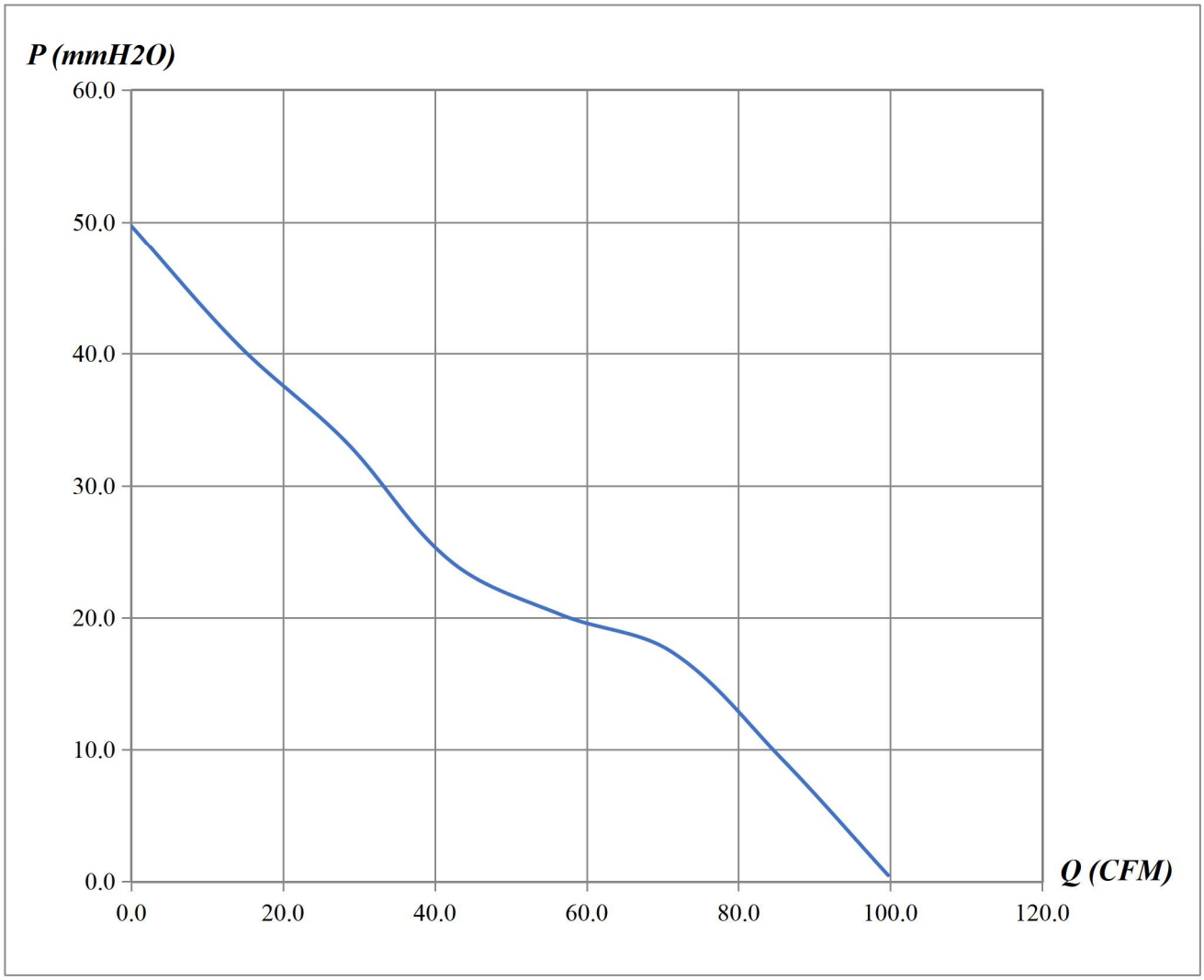
6. P - Q CURVE

TEST CONDITION

INPUT VOLTAGE ———— OPERATION VOLTAGE (12V DC)

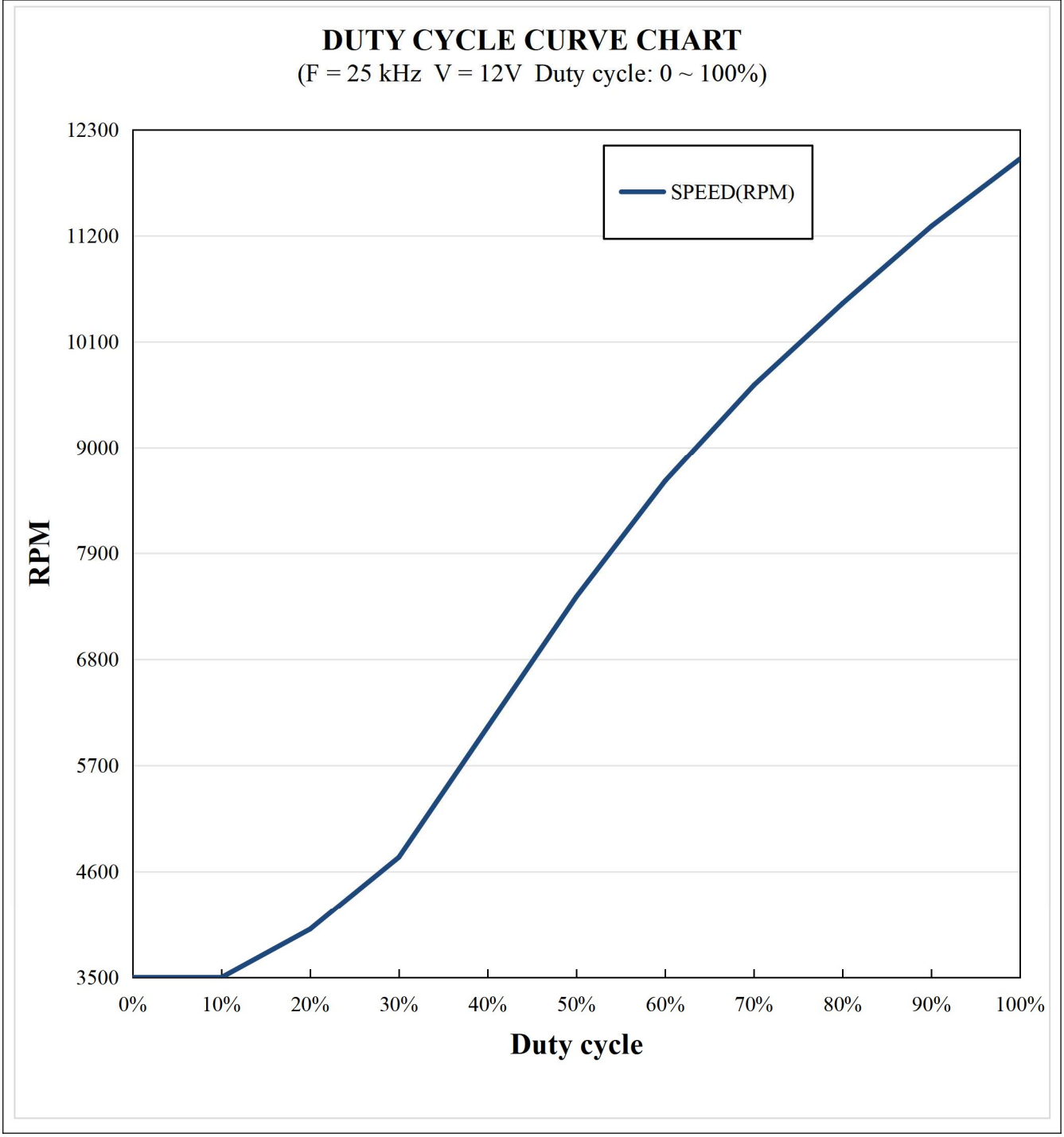
TEMPERATURE ———— ROOM TEMPERATURE

HUMIDITY ———— 65% RH



7. DUTY CYCLE CURVE CHART

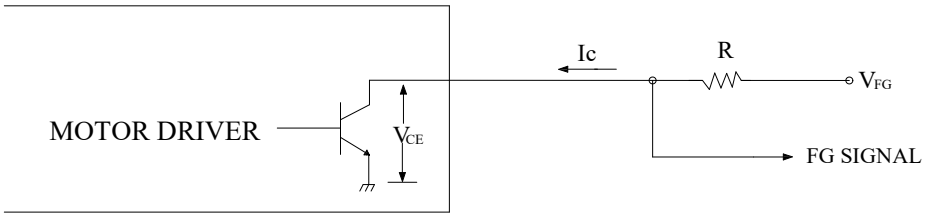
DUTY CYCLE	ROTATION SPEED(RPM)	RANGE(RPM)	CURRENT(A)
0~10%	3500	±300	<0.10
100%	12000	± 10%	< 2.00



8. FG CHARACTERISTICS & DEFINITION

● FREQUENCY GENERATOR(FG) SIGNAL

SCHEMATIC:



CAUTION:

PLEASE BE CAREFUL THAT REVOLUTION SIGNAL LEAD WIRE SHOULD NOT DIRECTLY HAVE ANY VOLTAGE APPLIED. (IT WOULD DAMAGE INNER CIRCUIT)

● SIGNAL SPECIFICATION

OUTPUT TYPE: OPEN COLLECTOR.

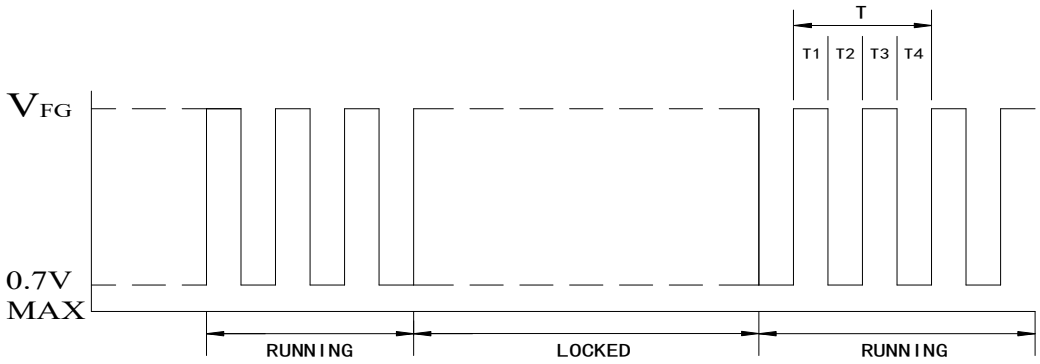
V_{FG} MAXIMUM VOLTAGE = 12.6V

IC MAXIMUM CURRENT = 5 mA

LOW LEVEL VOLTAGE = 0.7V MAX

R ≥ V_{FG} / I_C, WHEN V_{FG} = 3.3V, WE RECOMMEND R= 10 kΩ

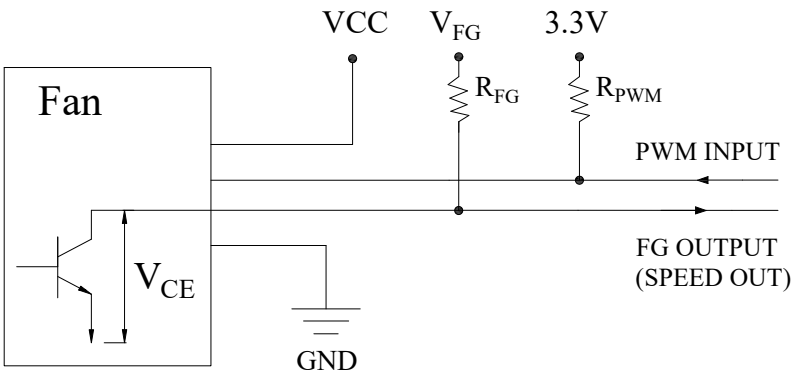
● FREQUENCY GENERATOR WAVEFORM



T = T1 + T2 + T3 + T4 = 60/N Sec, WHERE *N* REPRESENTS RPM

9. PWM CHARACTERISTICS & DEFINITION

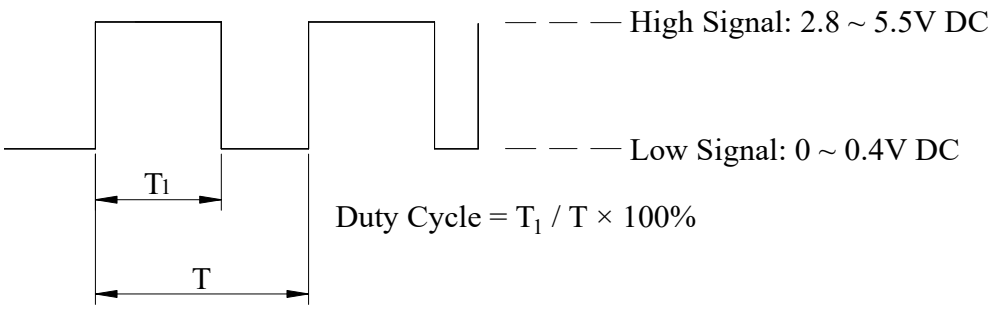
● PWM CIRUIT (FOR REFERENCE)



WHEN V_{PWM} = 3.3V, WE RECOMMEND R_{PWM} = 1 ~ 10 kΩ

● PWM CONTROL SIGNAL INPUT

SIGNAL VOTAGE RANGE: DC 0V ~ 5.5V



1. THE FREQUENCY OF PWM SIGNAL SHALL BE ABLE TO ACCEPT 21KHZ-28KHZ.
2. AT 100% DUTY CYCLE, THE FAN WILL OPERATE AT MAXIMUM SPEED.
3. THE FAN WILL DEFAULT TO OPERATE AT MAXIMUM SPEED WHEN THE SPEED CONTROL INPUT (PWM) IS LEFT UNCONNECTED.

10. NOTES

10 - 1 EVERFLOW SHALL NOT GUARANTEE THE PERFORMANCE OF THE PRODUCTS IF THE APPLICATION CONDITION FALLS OUTSIDE THE PARAMETERS SET FOR THE SPECIFICATION. A WRITTEN REQUEST SHOULD BE SUBMITTED TO EVERFLOW PRIOR TO APPROVAL IF DEVIATION FROM THIS SPECIFICATION IS REQUIRED.

10 - 2 THE ABOVE STANDARD SHALL BE THE SPECIFIED VALUE AT NORMAL TEMPERATURE(25℃) AND NORMAL HUMIDITY(60~65%) UNLESS OTHERWISE NOTED.

10 - 3 IT IS VERY IMPORTANT TO ESTABLISH THE CORRECT POLARITY, POSTIVE(+) AND NEGATIVE(-), BEFORE CONNECTING THE FAN TO THE POWER SOURCE. DAMAGE MAY BE CAUSED TO THE FANS IF CONNECTION IS WITH REVERSE POLARITY. THERE IS NO FOOLPROOF METHOD TO PROTECT AGAINST SUCH ERROR SPECIFICALLY MENTIONED IN THIS SPEC.

10 - 4 PLEASE EXERCISE CAUTION WHEN MOUNTING THE FAN, AS INCORRECT INSTALLATION MAY RESULT IN EXCESSIVE RESONANCE, VIBRATION, SUBSEQUENT NOISE, AND EVEN DAMAGED SCREW HOLES.

10 - 5 PLEASE EXERCISE CAUTION WHEN HANDLING FANS. DAMAGE MAY BE CAUSED IF PRESSURE IS APPLIED TO THE IMPELLER, OR THE FANS ARE HANDLED BY THE LEAD WIRES OR THE FAN WAS HARD-DROPPED TO THE PRODUCTION FLOOR.

10 - 6 ANY REVISIONS ON THE SPECIFICATION SHALL BE DONE BASED ON MUTUAL DISCUSSION AND AGREEMENT.

10 - 7 PLEASE ENSURE THAT ALL THE FANS ARE STORED ACCORDING TO THE SPECIFIED STORAGE TEMPERATURE LIMITS. DO NOT STORE FANS IN A HIGH HUMIDITY ENVIRONMENT. WE HIGHLY RECOMMEND CONDUCTING PERFORMANCE TESTING BEFORE SHIPPING IF THE FANS HAVE BEEN STORED OVER SIX MONTHS.

10 - 8 NOT ALL FANS ARE PROVIDED WITH THE LOCK ROTOR PROTECTION FEATURE. IF YOU IMPAIR THE ROTATION OF THE FANS THAT DO NOT HAVE THIS FUNCTION, THE PERFORMANCE OF THOSE FANS SHALL LEAD TO FAILURE.

10 - 9 EVERFLOW FANS WITHOUT SPECIAL PROTECTION ARE NOT SUITABLE WHERE ANY CORROSIVE FLUIDS ARE INTRODUCED TO THEIR ENVIRONMENT.

10 - 10 IT IS IMPORTANT TO CONSIDER SAFETY WHEN TESTING THE FANS. A SUITABLE FAN GUARD SHOULD BE FITTED TO THE FAN TO GUARD AGAINST ANY POTENTIAL PERSONAL INJURY.

10 - 11 ALL THE FANS SHALL MEET THE QUALITY INSPECTION UNDER SAMPLING PLAN MIL-STD-105E AS FOLLOWS WITH EXCEPTIONS PERTAINING TO CERTAIN SPECIAL DESIGNS. THERE IS NO GUARANTEE THAT THE PRODUCTS SHALL BE FREE FROM SAFETY PROBLEMS OR FAILURES CAUSED BY DISRUPTION DUE TO DUST, SUBMERSION INTO WATER OR ENCROACHMENT BY INSECTS INTO THE HUB.

10 - 12 ANY ITEM WHICH MAYBE NEEDED TO ADD INTO SPECIFICATION SHALL BE DETERMIND BY CUSTOMER’S PRIOR WRITTEN REQUEST. IF NO SUCH REQUEST IS MADE, FAN SHALL BE BASED ON OUR STANDARD SPECIFICATION.

10 - 13 CUSTOMER SHALL CONFIRM THE COMPATIBILITY AND RELIABILITY OF THE FAN IN THE ACTUAL SETUP OR UNIT APPLICATION. THIS INCLUDES CONFIRMATION ON SET OR UNIT LIFE, ELECTRICAL NOISE, MECHANICAL NOISE, VIBRATION, STATIC ELECTRICITY, ELECTRIC POWER NOISE, DRIFT, ELECTRIC RESONANCE BETWEEN MOTOR AND CONTROL CIRCUIT, MECHANICAL RESONANCE BETWEEN MOTOR AND CHASSIS, IRREGULAR MOVEMENT OF SET DUE TO MOTOR NOISE, IRREGULAR MOVEMENT OF SET IN STRONG ELECTROMAGNETIC FIELD, POTENTIAL DAMAGE CAUSED BY LIGHTNING SURGE AND EARTHING METHOD ETC.

10 - 14 IF ANY ISSUE RELATING TO FAN OCCURS, BOTH PARTIES SHALL DISCUSS ON THIS SPECIFICATION, PROVIDED HOWEVER, THAT OUR GUARANTEE IS ONLY LIMITED TO FANS.

10 - 15 PLEASE BE CERTAIN TO CONNECT AN “4.7 μF OR GREATER” CAPACITOR TO THE FAN EXTERNALLY WHEN THE APPLICATION CALLS FOR USING MULTIPLE FANS IN PARALLEL TO AVOID ANY UNSTABLE POWER.

Zertifikat *Certificate*

Zertifikat Nr. *Certificate No.*
R 50091668

Blatt *Page*
0020

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue* (day/mo/yr)
P00989074	ZTW1-YML- 10009602 022	13.04.2023	

Genehmigungsinhaber *License Holder*
Everflow Precision Electronic
(Dong Guan) Co., Ltd.
GeKeng Industrial Zone
Heng Li Town
Dongguan City
523460 Guangdong
P.R. China

Fertigungsstätte *Manufacturing Plant*
Everflow Precision Electronic
(Dong Guan) Co., Ltd.
GeKeng Industrial Zone
Heng Li Town
Dongguan City
523460 Guangdong
P.R. China

Prüfzeichen *Test Mark*

TÜVRheinland ZERTIFIZIERT
Bauart geprüft
Sicherheit
Regelmäßige Produktions-überwachung
www.tuv.com
ID 2000000000

Geprüft nach *Tested acc. to*
EN IEC 62368-1:2020+A11

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

Lizenzentgelte - Einheit *License Fee - Unit*

Ventilator (DC Fan)

wie Blatt (as page) 01, Änderung (Change)
Bezeichnung (Type Designation):
BX1X2X3X4X5Z, FX1X2X3XX54Z, KX1X2X3X4X5Z, DX1X2X3X4X5Z
XX1X2X3X4X5Z, RX1X2X3X4X5Z, SX1X2X3X4X5Z, TX1X2X3X4X5Z
(EVERFLOW)
X1 steht für (stands for): A,B,C,D,05,12,24,48,54
X2 steht für (stands for): 10,12,30,40,50,60,70,75,80,90,92,
120,140
X3 steht für (stands for): 10,15,18,20,25,28,32,38,40,56,80
X4 steht für (stands for): B, D, S
X5 steht für (stands for): L, M, H, U
Z steht für : 20 Variablen, jede Variable kann A-Z,
(stands for) 0-9, "," oder freibleibend.
(20 variables, each maybe A-Z, 0-9,
"(",")", "-" or blank)
Nennspannung (Rated Voltage): siehe Anlage (see appendix)
Nennstrom (Rated Current): siehe Anlage (see appendix)

ANLAGE (Appendix): 1-1.4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜVRheinland LGA Products GmbH Zertifizierungsstelle

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
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

Dipl.-Ing. (FH) A. Klinker

10/020 d 04.08 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

Industrial Services, Mobility and Transport,
Product Safety and Quality, Education and
Consulting, IT Services and Innovation

TÜVRheinland®
Precisely Right.

Everflow Precision Electronic (Dong Guan) Co., Ltd.
Frau Li Juan Chen

Date : 13.04.2023
Our ref. : YML ZTW1
Your ref.: P00989074

GeKeng Industrial Zone
Heng Li Town
Dongguan City
523460 Guangdong
P.R. China

Ref : R TÜV-Mark Approval

Type of Equipment : DC Fan
Model Designation : See Certificate
Certificate No. : R 50091668 0020
Report No. : 10009602 022

Dear Frau Li Juan Chen,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.
In case you have a change regarding your involved local representative for the certificate, please inform us in due time.

With kind regards,

Certification Body

Dipl.-Ing. (FH) A. Klinker

Enclosure

TÜV RHEINLAND TAIWAN LTD.

11F., No. 758, Sec. 4, Bade Rd.,
Songshan Dist., Taipei City 105,
Taiwan, R. O. C.
Tel. (02) 2172-7000
Fax (02) 2172-1322
http: //www.tuv.com

NEW TAIPEI BRANCH:
No. 458-18 & 458-19,
Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244,
Taiwan, R. O. C.
Tel. (02) 2172-1000
Fax (02) 2172-1322

TAICHUNG BRANCH:
3F., No. 497, Zhongming South Rd.,
West Dist., Taichung City 403,
Taiwan, R. O. C.
Tel. (02) 2172-7000
Fax (02) 2172-1322

KAOHSIUNG BRANCH:
27F.-3, No.80, Minzu 1st Rd.,
Sanmin Dist., Kaohsiung City 807,
Taiwan, R. O. C.
Tel. (07) 262-6000
Fax (07) 380-0577

1.1cm

Appendix to TÜV approved Certificate No.: R 50091668
Certified Product : DC Fan
Report Number : 10009602 022
Type Designation : BX1X2X3X4X5Z, FX1X2X3XX54Z, KX1X2X3X4X5Z, DX1X2X3X4X5Z, XX1X2X3X4X5Z, RX1X2X3X4X5Z, SX1X2X3X4X5Z, TX1X2X3X4X5Z (EVERFLOW) (X1=A,B,C,D,05,12,24,48,54; X2=10,12,30,40,50,60,70, 75,80,90,92,120,140; X3=10,15,18,20,25,28,32,38,40,56,80; X4=B,D,S;X5=L,M,H,U; Z=20 variables, each variable may be A-Z, 0-9, "(",")","-" or blank)

160	F121238BL**Z**	12	0.30
161	F121238BM**Z**	12	1.00
162	F121238BH**Z**	12	2.20
163	F121238BU**Z**	12	5.80
164	F128080BL**Z**	12	1.25
165	F128080BM**Z**	12	4.00
166	F128080BH**Z**	12	6.80
167	F128080BU**Z**	12	10.00
168	F128056BL**Z**	12	0.30
169	F128056BM**Z**	12	0.70
170	F128056BH**Z**	12	2.00
171	F128056BU**Z**	12	3.90
172	F128038BL**Z**	12	0.62
173	F128038BM**Z**	12	2.00
174	F128038BH**Z**	12	3.40
175	F128038BU**Z**	12	5.60
176	F126038BL**Z**	12	0.18
177	F126038BM**Z**	12	0.65
178	F126038BH**Z**	12	2.00
179	F126038BU**Z**	12	4.30
180	R124028BL**Z**	12	0.18
181	R124028BM**Z**	12	0.50
182	R124028BH**Z**	12	1.50

Appendix to TÜV approved Certificate No.: R 50091668
Certified Product : DC Fan
Report Number : 10009602 022
Type Designation : BX1X2X3X4X5Z, FX1X2X3XX54Z, KX1X2X3X4X5Z, DX1X2X3X4X5Z, XX1X2X3X4X5Z, RX1X2X3X4X5Z, SX1X2X3X4X5Z, TX1X2X3X4X5Z (EVERFLOW) (X1=A,B,C,D,05,12,24,48,54; X2=10,12,30,40,50,60,70, 75,80,90,92,120,140; X3=10,15,18,20,25,28,32,38,40,56,80; X4=B,D,S;X5=L,M,H,U; Z=20 variables, each variable may be A-Z, 0-9, "(",")","-" or blank)

206	R123010(B/D/S)H**Z**	12	0.15
207	R123010(B/D/S)U**Z**	12	0.18
208	R053010(B/D/S)L**Z**	5	0.06
209	R053010(B/D/S)M**Z**	5	0.08
210	R053010(B/D/S)H**Z**	5	0.12
211	R053010(B/D/S)U**Z**	5	0.15

Date: April 13, 2023

TÜV Rheinland LGA Products GmbH TÜVRheinland Zertifizierungsstelle

Certification

Dipl.-Ing. A. Klinker

UL Product iQ®

GPWV2.E236658 - Fans, Electric - Component

Note: We are enhancing our systems and you may notice duplicate entries/missing/outdated data. During this interim period, please contact our Customer Service at https://www.ul.com/about/locations.

Fans, Electric - Component

EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD E236658
GE KENG INDUSTRIAL ZONE
HENG LI TOWN
DONGGUAN, GUANGDONG 523460 China

Marking: Company name or tradename "E236658" , or trademark 

, 

, and model designation.

Note: For additional marking information, refer to the Guide Information Page.

Model(s): 103142H, 103142L, 103142M, B126013BH, B126013BM, B126013BU, B127015BH, B127015BM, B127015BU

Model(s): (A)121225(C)((x)(Z) Above (A) may be R or F, (C) may be S, D or B, (x) may be U, H, M or L, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Model(s): (A)121238(C)(x)(Z) Above (A) may be R or F, (C) may be S, D or B, (x) may be U, H, M or L, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Model(s): (A)124028(C)(D)(Z) Above (A) may be R, F, T represents screw hold on Frame, (C) may be S, D or B represents Bearing Type, (D) may be L, M, H or U represents Fan Speed, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Model(s): (A)124028(C)(x)(Z) Above (A) may be R or F, (C) may be S, D or B, (x) may be U, H, M or L, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Model(s): (A)126038(C)(x)(Z) Above (A) may be R or F, (C) may be S, D or B, (x) may be U, H, M or L, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Model(s): (A)128038(C)(x)(Z) Above (A) may be R or F, (C) may be S, D or B, (x) may be U, H, M or L, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Model(s): (A)128056(C)(x)(Z) Above (A) may be R or F, (C) may be S, D or B, (x) may be U, H, M or L, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Model(s): (A)128080(C)(x)(Z) Above (A) may be R or F, (C) may be S, D or B, (x) may be U, H, M or L, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Model(s): F128080CDZ C may be B, D or S, D may be L, M, H or U.Z may be A through Z,0 through 9,"(" , "),"-" or blank

Model(s): F248080CDZ C may be B, D or S, D may be L, M, H or U.Z may be A through Z,0 through 9,"(" , "),"-" or blank

Model(s): F488080CDZ A may be R, F or T, C may be B, D or S, D may be L, M, H or U.Z may be A through Z,0 through 9,"(" , "),"-" or blank

Model(s): F548080CDZ C may be B, D or S, D may be L, M, H or U.Z may be A through Z,0 through 9,"(" , "),"-" or blank

Model(s): R053010CDZ C may be B, D or S, D may be L, M, H or U.Z may be A through Z,0 through 9,"(" , "),"-" or blank

Model(s): R123010CDZ C may be B, D or S, D may be L, M, H or U.Z may be A through Z,0 through 9,"(" , "),"-" or blank

Feedback

0-9, "(",")", "-" or blank.

Electric Fans - Component, Model(s): (A)128038B(D)(2)(Z) , Where (A) may be R, F, T represents screw hold on Frame, (D) may be L, M, H or U represents Fan Speed, (2) may be (2) or blank, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Electric Fans - Component, Model(s): (A)129025(C)(D)(E)(Z) , Where (A) may be R, F, T represents screw hold on Frame, (C) may be S, D or B represents Bearing Type, (D) may be L, M, H or U represents Fan Speed, (E)may be (2), (3), (4), (5) ,(6) or blank represents different frames, (Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Electric Fans - Component, Model(s): B053510BU(Z) , where (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.

Electric Fans - Component, Model(s): B055015BL(Z) , where (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.

Low Voltage Component Fan, Model(s): (A)124020(C)H(5)(Z) , where (A) may be R, F for different numbers of screw holes on frame shapes, (C) may be S, D, B or C for different bearing types, (5) may be (5) or blank, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.

Low Voltage Component Fan, Model(s): (A)124020(C)L(5)(Z) , where (A) may be R, F for different numbers of screw holes on frame shapes, (C) may be S, D, B or C for different bearing types, (5) may be (5) or blank, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.

Low Voltage Component Fan, Model(s): (A)124020(C)M(5)(Z) , where (A) may be R, F for different numbers of screw holes on frame shapes, (C) may be S, D, B or C for different bearing types, (5) may be (5) or blank, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.

Low Voltage Component Fan, Model(s): (A)124020(C)U(5)(Z) , where (A) may be R, F for different numbers of screw holes on frame shapes, (C) may be S, D, B or C for different bearing types, (5) may be (5) or blank, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.

Low Voltage DC Components Fan, Model(s): (A)124056(Y)(X)(Z) Above (A) may be R or F, (Y) may be S, B, D or C, (X) may be U, H, M or L,(Z) stands for 20 variables, each variable maybe A-Z, 0-9, "(",")", "-" or blank.

Low Voltage DC Components Fan, Model(s): F056025BH(+) Where (+) can be any seven combination of digit or letter.

Low Voltage DC Components Fan, Model(s): R248025BM(+) Where (+) can be any seven combination of digit or letter.

Last Updated on 2023-04-21

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

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Shenzhen Tian Hai Test Technology Co.,Ltd.

CE Certificate of Conformity

Certification number: TH2302237-C01-C01 Report number: TH2302237-C01-R01

Shenzhen Tian Hai Test Technology Co., Ltd. hereby declares that testing has been completed and reports have been generated for:

Applicant:	EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD
Address:	GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, 523460, CN
Manufacturer:	EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD
Address:	GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, 523460, CN
Product:	DC FAN
Model:	See the model lists below

And, in accordance with the following applicable directives:

2014/30/EU Electromagnetic Compatibility (EMC)

This product has been assessed against the following applicable standards:

Standard(s): **EN 55032:2015+A1:2020**
EN 55035:2017+A11:2020

Therefore, Shenzhen Tian Hai Test Technology Co., Ltd. hereby acknowledges that the applicant may issue a DECLARATION of CONFORMITY and apply the CE marking in accordance with European Union Rules.

Attestation by:

Thomas Wong

Date of Issued: 2023-03-02

4F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan lan street,Longhua district,Shenzhen
Tel:+86-755-86615100 Fax:+86-755-86615105 http://www.tianhaitest.com

		F121238BUZ	12	5.80	7800
110	8080 Series	F128080BLZ	12	1.25	8000+8000
		F128080BMZ	12	4.00	12000+12000
		F128080BHZ	12	6.80	15000+15000
		F128080BUZ	12	10.00	18000+15000
111	8056 Series	F128056BLZ	12	0.30	5000
		F128056BMZ	12	0.70	7000
		F128056BHZ	12	2.00	10000
		F128056BUZ	12	3.90	12500
112	8038 Series	F128038BLZ	12	0.62	8000
		F128038BMZ	12	2.00	12000
		F128038BHZ	12	3.40	15000
		F128038BUZ	12	5.60	18000
113	6038 Series	F126038BLZ	12	0.18	5000
		F126038BMZ	12	0.65	10000
		F126038BHZ	12	2.00	15000
		F126038BUZ	12	4.30	20000
114	4028 Series	R124028BLZ	12	0.18	8000
		R124028BMZ	12	0.50	15000
		R124028BHZ	12	1.50	25000
		R124028BUZ	12	3.50	34000
115	1225 Series	R121225BLZ	12	0.20	1500
		R121225BMZ	12	0.35	2200
		R121225BHZ	12	0.50	3000
		R121225BUZ	12	1.30	3800
116	8080 Series	F548080(B/D/S)LZ	54	0.5	8000+6000
		F548080(B/D/S)MZ	54	1.2	12000+10000
		F548080(B/D/S)HZ	54	2.1	15000+13000
		F548080(B/D/S)UZ	54	3.16	17000+15000
117	8080 Series	F488080(B/D/S)LZ	48	0.5	8000+6000
		F488080(B/D/S)MZ	48	1.5	12000+10000
		F488080(B/D/S)HZ	48	2.4	15000+13000
		F488080(B/D/S)UZ	48	3.5	17000+15000
118	8080 Series	F248080(B/D/S)LZ	24	1	8000+6000
		F248080(B/D/S)MZ	24	2.7	12000+10000
		F248080(B/D/S)HZ	24	5.5	15000+13000
		F248080(B/D/S)UZ	24	7.5	17000+15000

		(R/F/S/X/T/K)124020(B/D/S)MZ	12	0.16	8000
		(R/F/S/X/T/K)124020(B/D/S)HZ	12	0.23	11000
		(R/F/S/X/T/K)124020(B/D/S)UZ	12	0.45	14000
27	4028 Series	(R/F/S/X/T/K)124028(B/D/S)LZ	12	0.15	6000
		(R/F/S/X/T/K)124028(B/D/S)MZ	12	0.18	8000
		(R/F/S/X/T/K)124028(B/D/S)HZ	12	0.28	10000
		(R/F/S/X/T/K)124028(B/D/S)UZ	12	0.40	12000
28	5010 Series	(T/F/R/S/K/X)125010(B/D/S)LZ	12	0.13	3500
		(T/F/R/S/K/X)125010(B/D/S)MZ	12	0.15	4500
		(T/F/R/S/K/X)125010(B/D/S)HZ	12	0.25	5500
		(T/F/R/S/K/X)125010(B/D/S)UZ	12	0.32	6500
29	7015 Series	(R/F/S/X/T/K)127015(B/D/S)UZ	12	0.40	5500
30	7020 Series	(R/F/S/X/T/K)127020(B/D/S)LZ	12	0.20	3600
		(R/F/S/X/T/K)127020(B/D/S)MZ	12	0.26	4200
		(R/F/S/X/T/K)127020(B/D/S)HZ	12	0.30	4800
		(R/F/S/X/T/K)127020(B/D/S)UZ	12	0.40	5400

Z stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.
The variable (Z) is for marketing purpose only.

Shenzhen Tian Hai Test Technology Co.,Ltd.

Certificate of Conformity

Certification number: TH2302238-C07-C01 Report number: TH2302238-C07-R01

Shenzhen Tian Hai Test Technology Co., Ltd. hereby declares that testing has been completed and reports have been generated for:

Applicant:	EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD
Address:	GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, 523460, CN
Manufacturer:	EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD
Address:	GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, 523460, CN
Product:	DC FAN
Model:	See the model lists below
Tested according to:	BS EN 55032:2015+A11:2020 BS EN 55035:2017+A11:2020

The submitted products have been tested by us with the listed standards.

This Attestation of Compliance is issued according to the Great Britain legislation Electromagnetic Compatibility Regulations 2016. It confirms that the listed product complies with all essential requirements of the Regulations and applies only to the sample and its technical documentation submitted to Shenzhen Tian Hai Test Technology Co.,Ltd. for testing.

After preparation of the necessary technical documentation (which must be kept for up to 10years after the product is placed on the GB market) as well as the UK Declaration of Conformity, the required UKCA marking can be affixed on the product.Other relevant Regulations have to be observed.

UK CA

Attestation by:

Thomas Wong

Shenzhen Tian Hai Test Technology Co.,Ltd.

Date of Issued: 2023-03-02

4F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan lan street,Longhua district,Shenzhen
Tel:+86-755-86615100 Fax:+86-755-86615105 http://www.tianhaitest.com

		F121238BHZ	12	2.20	6000
		F121238BUZ	12	5.80	7800
110	8080 Series	F128080BLZ	12	1.25	8000+8000
		F128080BMZ	12	4.00	12000+12000
		F128080BHZ	12	6.80	15000+15000
		F128080BUZ	12	10.00	18000+15000
111	8056 Series	F128056BLZ	12	0.30	5000
		F128056BMZ	12	0.70	7000
		F128056BHZ	12	2.00	10000
		F128056BUZ	12	3.90	12500
112	8038 Series	F128038BLZ	12	0.62	8000
		F128038BMZ	12	2.00	12000
		F128038BHZ	12	3.40	15000
		F128038BUZ	12	5.60	18000
113	6038 Series	F126038BLZ	12	0.18	5000
		F126038BMZ	12	0.65	10000
		F126038BHZ	12	2.00	15000
		F126038BUZ	12	4.30	20000
114	4028 Series	R124028BLZ	12	0.18	8000
		R124028BMZ	12	0.50	15000
		R124028BHZ	12	1.50	25000
		R124028BUZ	12	3.50	34000
115	1225 Series	R121225BLZ	12	0.20	1500
		R121225BMZ	12	0.35	2200
		R121225BHZ	12	0.50	3000
		R121225BUZ	12	1.30	3800
116	8080 Series	F548080(B/D/S)LZ	54	0.5	8000+6000
		F548080(B/D/S)MZ	54	1.2	12000+10000
		F548080(B/D/S)HZ	54	2.1	15000+13000
		F548080(B/D/S)UZ	54	3.16	17000+15000
117	8080 Series	F488080(B/D/S)LZ	48	0.5	8000+6000
		F488080(B/D/S)MZ	48	1.5	12000+10000
		F488080(B/D/S)HZ	48	2.4	15000+13000
		F488080(B/D/S)UZ	48	3.5	17000+15000
118	8080 Series	F248080(B/D/S)LZ	24	1	8000+6000
		F248080(B/D/S)MZ	24	2.7	12000+10000
		F248080(B/D/S)HZ	24	5.5	15000+13000

		F248080(B/D/S)UZ	24	7.5	17000+15000
119	8080 Series	F128080(B/D/S)LZ	12	1.5	8000+6000
		F128080(B/D/S)MZ	12	2.7	10000+8000
		F128080(B/D/S)HZ	12	6.3	13000+11000
		F128080(B/D/S)UZ	12	11	15500+14000
120	3010 Series	R123010(B/D/S)LZ	12	0.08	6500
		R123010(B/D/S)MZ	12	0.12	9000
		R123010(B/D/S)HZ	12	0.15	12000
		R123010(B/D/S)UZ	12	0.18	14500
121	3010 Series	R053010(B/D/S)LZ	5	0.06	6000
		R053010(B/D/S)MZ	5	0.08	7000
		R053010(B/D/S)HZ	5	0.12	8000
		R053010(B/D/S)UZ	5	0.15	9500

Z stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.
The variable (Z) is for marketing purpose only.

Shenzhen Tian Hai Test Technology Co.,Ltd.

Certificate of Conformity

Certification number: TH2302238-C08-C01 Report number: TH2110138-C08-R01

Shenzhen Tian Hai Test Technology Co.,Ltd. hereby declares that testing has been completed and reports have been generated for:

Applicant:	**EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD**
Address:	GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, 523460, CN
Manufacturer:	**EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD**
Address:	GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, 523460, CN
Product:	**DC FAN**
Model:	See attachment
Rating:	See attachment
Tested according to:	BS EN IEC 62368-1:2020+A11:2020

The submitted products have been tested by us with the listed standards.

This Attestation of Compliance is issued according to the Great Britain legislation Electrical Equipment (Safety)Regulations 2016. It confirms that the listed product complies with all essential requirements of the Regulations and applies only to the sample and its technical documentation submitted to Shenzhen Tian Hai Test Technology Co.,Ltd. for testing.

After preparation of the necessary technical documentation (which must be kept for up to 10years after the product is placed on the GB market) as well as the UK Declaration of Conformity, the required UKCA marking can be affixed on the product.Other relevant Regulations have to be observed.

UKCA

Attestation by:

Thomas Wong

Shenzhen Tian Hai Test Technology Co.,Ltd.

Date of Issued: 2023-02-28

4F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan lan street,Longhua district,Shenzhen

Tel:+86-755-86615100 Fax:+86-755-86615105 http://www.tianhaitest.com

109	1238 Series	F121238BLZ	12	0.30	3000
		F121238BMZ	12	1.00	4500
		F121238BHZ	12	2.20	6000
		F121238BUZ	12	5.80	7800
110	8080 Series	F128080BLZ	12	1.25	8000+8000
		F128080BMZ	12	4.00	12000+12000
		F128080BHZ	12	6.80	15000+15000
		F128080BUZ	12	10.00	18000+15000
111	8056 Series	F128056BLZ	12	0.30	5000
		F128056BMZ	12	0.70	7000
		F128056BHZ	12	2.00	10000
		F128056BUZ	12	3.90	12500
112	8038 Series	F128038BLZ	12	0.62	8000
		F128038BMZ	12	2.00	12000
		F128038BHZ	12	3.40	15000
		F128038BUZ	12	5.60	18000
113	6038 Series	F126038BLZ	12	0.18	5000
		F126038BMZ	12	0.65	10000
		F126038BHZ	12	2.00	15000
		F126038BUZ	12	4.30	20000
114	4028 Series	R124028BLZ	12	0.18	8000
		R124028BMZ	12	0.50	15000
		R124028BHZ	12	1.50	25000
		R124028BUZ	12	3.50	34000
115	1225 Series	R121225BLZ	12	0.20	1500
		R121225BMZ	12	0.35	2200
		R121225BHZ	12	0.50	3000
		R121225BUZ	12	1.30	3800
116	8080 Series	F548080(B/D/S)LZ	54	0.5	8000+6000
		F548080(B/D/S)MZ	54	1.2	12000+10000
		F548080(B/D/S)HZ	54	2.1	15000+13000
		F548080(B/D/S)UZ	54	3.16	17000+15000
117	8080 Series	F488080(B/D/S)LZ	48	0.5	8000+6000
		F488080(B/D/S)MZ	48	1.5	12000+10000
		F488080(B/D/S)HZ	48	2.4	15000+13000
		F488080(B/D/S)UZ	48	3.5	17000+15000

118	8080 Series	F248080(B/D/S)LZ	24	1	8000+6000
		F248080(B/D/S)MZ	24	2.7	12000+10000
		F248080(B/D/S)HZ	24	5.5	15000+13000
		F248080(B/D/S)UZ	24	7.5	17000+15000
119	8080 Series	F128080(B/D/S)LZ	12	1.5	8000+6000
		F128080(B/D/S)MZ	12	2.7	10000+8000
		F128080(B/D/S)HZ	12	6.3	13000+11000
		F128080(B/D/S)UZ	12	11	15500+14000
120	3010 Series	R123010(B/D/S)LZ	12	0.08	6500
		R123010(B/D/S)MZ	12	0.12	9000
		R123010(B/D/S)HZ	12	0.15	12000
		R123010(B/D/S)UZ	12	0.18	14500
121	3010 Series	R053010(B/D/S)LZ	5	0.06	6000
		R053010(B/D/S)MZ	5	0.08	7000
		R053010(B/D/S)HZ	5	0.12	8000
		R053010(B/D/S)UZ	5	0.15	9500

Z stands for 20 variables, each variable may be A through Z,0 through 9,"(" , ")","-" or blank.
The variable (Z) is for marketing purpose only.