

## 1. SCOPE:

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

### 2. CHARACTERS:

NO	ITEM	SPECIFICATION
2-1	Rated Voltage	5.0 VDC
2-2	Starting Voltage	N/A
2-3	Operating Voltage Range	4.5V~5.5V
2-4	Rated Current	Max.0.45A Duty cycle =100%
2-5	Rated Power	Max.2.25W Duty cycle =100%
2-6	Start Peak Current	N/A
2-7	UL Current On Label	0.60 A
2-8	Rated Speed	0 R.P.M  3400±10% R.P.M  Duty cycle =0%  Duty cycle =100 %  (Testing Speed After Continuous 3Minutes Operation At Ambient  Temperature Of 25°C)
2-9	Air Flow (At Zero Static Pressure)	6.84 CFM (Min. 6.16CFM) 0.19 m³/min (Min. 0.17 m³/min) Duty cycle =100%
2-10	Static Pressure (At Zero Flow)	13.10 mmH2O (Min. 10.61 mmH2O) 0.52 Inh-H2O (Min. 0.42 Inh-H2O) Duty cycle =100%
2-11	Sound Level	37.5 dB(A) (Max. 40.0 dB(A))
2-12	Product Type	■ RoHS □ HF
2-13	Life Expectancy	30,000 Hours at 40℃.
2-14	Bearing Type	□ Two Ball ■ EBR □ Ball And Sleeve
2-15	Protection	☐ Impedance Protection ■ Auto-Restart ☐ Current-Limit ☐ Polarity Protection ☐ Locked Protection
2-16	Pole	■ 4 Pole □ 8 Pole □ Three Phase
2-17	Signal Output	Frequency Generator (FG)
2-18	Safety Approval	CE / TUV / UL / UKCA
2-19	IP Grade	N/A



#### 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	■ LCP (BLACK) PLASTIC (UL 94V-0)  □ PC PLASTIC {UL 94V-2}	
3-4	COVER	SECC	
3-5	WEIGHT	49 GRAMS (REF)	

#### 4. ENVIRONMENTAL:

- 4-1. OPERATING TEMPERATURE ------ -10°C~70°C
- 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 LABEL SIDE)

4-6. DIELECTRIC STRENGTH ------ 5mA MAX. AT 500 Vac 60Hz ONE MINUTE (BETWEEN

FRAME AND (+)TERMINAL)

4-7. INSULATION STRENGTH------ MORE THAN 10 M OHM INTERNAL STATOR

AND LEAD WIRE(+) MEASURED AT DC 500V

4-8. DROP TEST----- IN MINIMUM PACKAGING CONDITION, FAN

WITHSTANDS ONE DROP FROM EACH OF ITS THREE FACES AT THE HEIGHT OF 60cm ON TO



4-9. LIFE EXPECTANCY-----THE "LIFE EXPECTANCY" OF EVERFLOW FANS IS DETER MINED IN EVERFLOW'S RELIABILITY TEST LABORATORY BY USING TEMPERATURE CHAMBERS. THE "LIFE EXPEC TANCY" OF THIS FAN HAS NOT BEEN EVALUATED FOR USE IN COMBINATION WITH ANY END APPLICATION. THEREFORE .THE LIFE EXPECTANCY THAT RELATE TO THIS FAN ARE ONLY FOR REFERENCE. 4-10. VIBRATION TEST-----ORIENTATION: X, Y, Z. FREQUENCY(Hz) PSD (g2/Hz) 5 0.02 500 0.0001 TEST TIME: 2 HRS FOR EACH DIRECTION. 4-11. 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. MEASURED IN A SEMI-ANECHOIC 4-12. NOISE TEST -----CHAMBER WITH BACKGROUND NOISE LEVEL BELOW 19 dB(A). THE FAN IS DC FAN AIR FLOW RUNNING IN FREE AIR WITH THE MICROPHONE AT A DISTANCE OF ZERO POINT FIVE METERS FRAM THE FAN INTAKE NOISE 0.5M TESTER MODEL: CEL-63X/CASELLA. 4-13. AIR PERFORMANCE ------ MEASURED BY A DOUBLE CHAMBER.THE VALUES ARE RECORDED WHEN THE FAN SPEED HAS STABILIZED AT RATED VOLTAGE. 5. NOTES: 5-1. EVERFLOW WILL NOT GUARANTEE THE PERFORMANCE OF THE PRODUCTS IF

- 5-1. EVERFLOW WILL 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 APPEROVAL IF DEVIATON FROM THIS SPECIFICATION IS REQUIRED.
- 5-2.THE ABOVE STANDARD SHOULD BE THE SPECIFIED VALUE AT NORMAL TEMPERATURE (25°C) AND NORMAL HUMIDITY (60~65%) UNLESS OTHERWISE NOTED.



- 5-3. SPECIFICATION CHANGE:
  - ANY CHANGES TO THE PARAMETERS SPECIFIED IN THIS DOCUMENT WILL BE DETERMINED BY MUTUAL AGREEMENT ON BOTH PARTIES.
- 5-4. IT IS VERY IMPORTANT TO ESTABLISH THE CORRECT POLARITY, POSTIVE (+) AND NEGATIVE (-), BEFORE CONNNECTING 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.
- 5-5. PLEASE BE CAUTIOUS WHEN MOUNTING THE FAN. INCORRECT MOUNTING OF FANS MAY CAUSE EXCESS RESONANCE, VIBRATION, SUBSEQUENT NOISE, AND EVEN BROKEN SCREW HOLES.
- 5-6. PLEASE EXERCISE CAUTION WHEN HANDLING FANS. DAMAGE MAY BE CAUSED IF PRESSURE IS APPLIED TO THE INPELLER, IF THE FANS ARE HANDLED BY THE LEAD WIRES, OR IF THE FAN WAS HARD-DROPPED TO THE PRODUCTION FLOOR.
- 5-7. EVERFLOW FANS WITHOUT SPECIAL PROTECTION ARE NOT SUITABLE WHERE ANY CORROSIVE FLUIDS ARE INTRODUCED TO THEIR ENVIRONMENT.
- 5-8. PLEASE ENSURE ALL 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 6 MONTHS.
- 5-9. NOT ALL FANS ARE PROVIDED WITH THE LOCK ROTOR PROTECTION FEATURE.
  IF YOU IMPAIR THE ROTATION OF THE IMPELLER FOR THE FANS THAT DO NOT
  HAVE THIS FUNCTION, THE PERFORMANCE OF THOSE FANS WILL LEAD TO FAILURE.
- 5-10. 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 FOR PERSONAL INJURY.
- 5-11. 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 WILL BE FREE FROM SAFETY PROBLEMS OR FAILURES CAUSED BY DISRUPTION DUE TO DUST, SUBMERSION INTO WATER OR ENCROACHMENT BY INSECTS INTO THE HUB.

CRITICAL 0.25%

MAJOR 1.00%

MINOR 2.50%



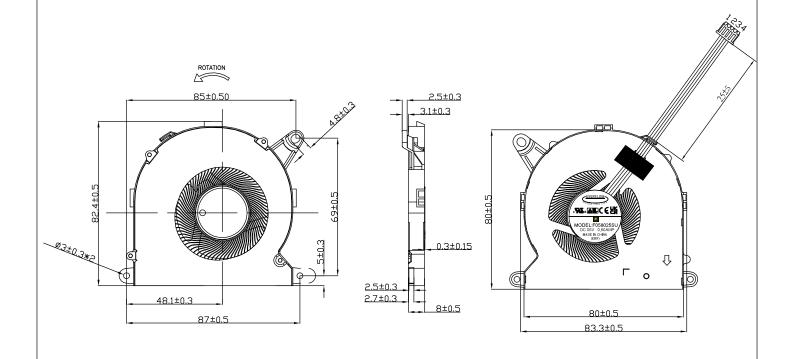
- 5-12. CUSTOMER SHALL CONFIRM THE COMPATIBILITY AND RELIABILITY OF THE FAN IN THE ACTUAL SETUP OR UNIT APPLICATION. THIS INCLUDES CONFIRMATION ON SET OR UNIT LIFE, ELECTRICAL NOISE, MECHANICAL NOISE, VIBRATION, STATIC ELECTRICITY, ELECTRIC POWER NOISE, DRIFT, ELECTRIC RESONANCE BETWEEN MOTOR AND CONTROL 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.
- 5-13. ANY REVISIONS ON THE SPECIFICATION SHALL BE DONE BASED ON MUTUAL DISCUSSION AND AGREEMENT.
- 5-14. IN ORDER TO IMPROVE THE PERFORMANCE WITHIN THE SCOPE OF SPECIFICATION, PARTS OR MATERIAL CHANGES ARE SUBJECT TO PRIOR NOTICE TO CUSTOMER.
- 5-15. ANY ITEM THAT NEEDS TO BE ADDED INTO SPECIFICATION SHALL BE DETERMINED ON CUSTOMER'S PRIOR WRITTEN REQUEST. IF NO INFORMATION GIVEN, FAN WILL BE DELIVERED BASED ON OUR STANDARD JUDGMENT.
- 5-16.WHEN ANY TROUBLE OCCURS, BOTH PARTIES SHALL DISCUSS ON THIS SPECIFICATION TO SOLVE THE MATTER. IN THIS CASE, OUR GUARANTEE IS ONLY LIMITED TO FANS.
- 5-17. BE SURE TO CONNECT AN "4.7µF OR GREATER" CAPACITOR TO THE FAN EXTERNALLY WHEN THE APPLICATION CALLS FOR USING MULTIPLE FANS IN PARALLEL. THIS IS TO AVOID ANY UNSTABLE POWER.
- 5-18. PLEASE EXERCISE CAUTION WHEN HANDLING FANS.DAMAGE MAY BE CAUSED BY OUTSIDE ABNORMAL PRESSURE OR ENVIRONMENT STRESS DURING MOVING.
- 5-19. LOCKED ROTOR PROTECTION:
  IMPEDANCE OF MOTOR WINDING PROTECTS MOTOR FROM DAMAGE IN 72 HOURS OF
  LOCKED ROTOR CONDITION AT THE RATED VOLTAGE.
- 5-20. POLARITY PROTECTION:
  BE CAPABLE OF WITHSTANDING IF REVERSE CONNECTION FOR POSITIVE AND NEGATIVE LEADS.



## 6. DIMENSION DRAWING. UNIT: mm

EF Part no F058025SUAFY09aR





### NOTES:

1. LEAD WIRE UL 3302 AWG#32

PIN 1: BLACK WIRE--- (-) PIN 2: RED WIRE---(+)

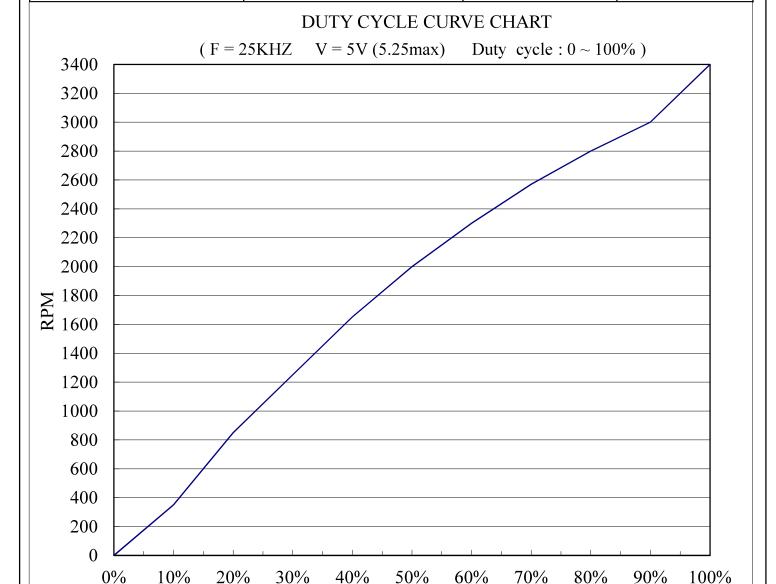
PIN 3: WHITE WIRE---(SIGNAL) PIN 4: BLUE WIRE---(PWM INPUT)

2.HOUSING: 51021-4P (WHITE) OR EQUIVAIENT



### 7. DUTY CYCLE CURVE CHART

DUTY CYCLE	SPEED (RPM)	SPEED (RPM) RANGE	
0%	0	0	<0.02A
100%	3400	±10%	<0.45A

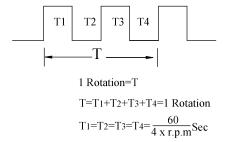


-DUTY CYCLE



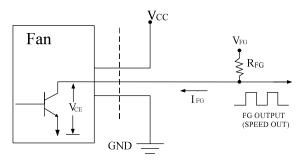
### 8. CHARACTERISTICS & DEFINITION

• 4 Pole Motor: Fan with 4 pole motor.



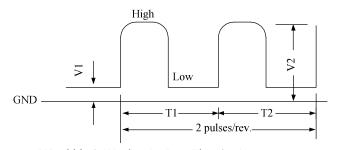
• FG(Frequency Generator)Signal External Circuit:

Open-collector output for rotation frequency detection



Note:Max.V<sub>FG</sub>=5.5VDC,Max.I<sub>FG</sub>=5mA,  $\Longrightarrow$  R<sub>FG</sub> $\ge$ V<sub>FG</sub>/I<sub>FG</sub> When V<sub>FG</sub> = 3.3V We Recommend R <sub>FG</sub> =4.7K $\Omega$ 

• FG(Frequency Generator)Type Output Waveform: 1.Motor Rotating Condition(at 25°C,V =5VDC)



V1:within 0.5V when I<sub>FG</sub> Less Than 3mA

V2:V<sub>FG</sub>,FG signal output voltage,maximum rating:5.5VDC

Duty= $T1/(T1+T2)x100\%=(50\pm 20)\%$  (measured between  $0.3*V2\sim0.7*V2$ )

V1\_V2 rise time:less than 1.0ms

V2\_V1 fall time:less than 1.0ms

Rotation Speed (RPM)=(60/2)x f<sub>FG</sub>=30x f<sub>FG</sub>

f<sub>FG</sub>:frequency of FG output waveform(Hz)

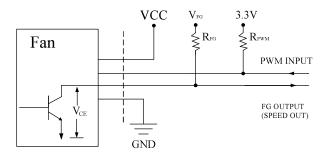
2.Motor locked condition(at V<sub>cc</sub> =5.0 VDC)

Output is fixed at low or high when motor is locked.



### 9. CHARACTERISTICS & DEFINITION

• PWM Circuit:(for reference)



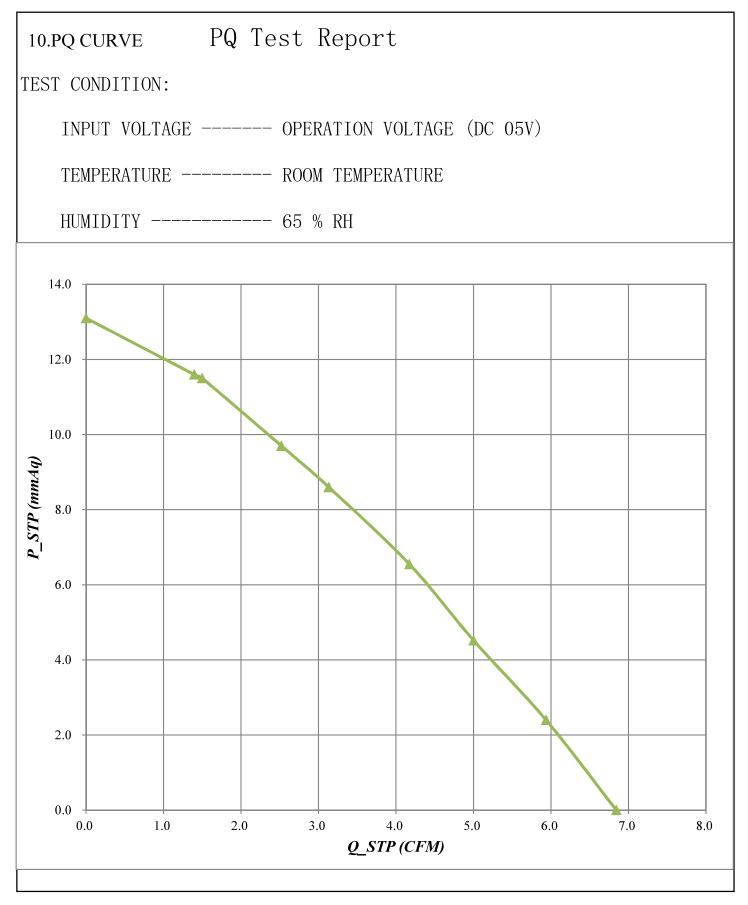
When  $V_{\text{\tiny RPM}} = 3.3 V$  We Recommend R  $_{\text{\tiny PWM}} = 1\text{--}10 K\Omega$ 

• PWM Control Signal Input:

Signal Voltage Range :DC 0V ~5.5V (V = 5V)  $----- \text{ High Signal : } \ge 2.8 \text{VDC.}$   $----- \text{Low Signal : } \le 0.4 \text{VDC}$   $----- \text{Low Signal : } \le 0.4 \text{VDC}$  ----- Duty Cycle = T1/T\*100(%)

- 1.The 25KHz operating frequency(customer preferred)has been tested and checked.
- 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 input) is left unconnected.





#### Certificate Zertifikat



Zertifikat Nr. Certificate No.

Blatt Page 0020

R 50091668

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue

P00989074

ZTW1-YML- 10009602 022

13.04.2023

(day/mo/yr)

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



Bauart geprüft Sicherheit Regelmäßige Produktionsüberwachung

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

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) (Rated Current): siehe Anlage (see appendix) Nennstrom

ANLAGE (Appendix): 1-1.4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die ka des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderu 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 of the product with the standards and testing requirements as indicated have to be considered requirements in countries where the product is going to be marketed have to be considered rerungs. additionally. The manufacturing of the certified product is subject to surveillance.

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

Zertifizierungsstelle

Dipl.-Ing. (FH) A. Klinker

10 d 04.08 . TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approve





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 Group**

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)

45	B127515BL <b>Z</b>	12	0.40
46	B127515BM <b>Z</b>	12	0.50
47	B127515BH <b>Z</b>	12	0.60
48	B127515BU <b>Z</b>	12	0.80
49	R( <b>A/05</b> )4020BL <b>Z</b>	5	0.12
50	R( <b>A/05</b> )4020BM <b>Z</b>	5	0.25
51	R( <b>A/05</b> )4020DL <b>Z</b>	5	0.13
52	R( <b>A/05</b> )4020DM <b>Z</b>	5	0.25
53	R( <b>A/05</b> )4020SL <b>Z</b>	5	0.13
54	R( <b>A/05</b> )4020SM <b>Z</b>	5	0.25
55	(F/R/T)( <b>A/05</b> )8025(B/D/S)L <b>Z</b>	5	0.30
56	(F/R/T)( <b>A/05</b> )8025(B/D/S)M <b>Z</b>	5	0.40
57	(F/R/T)( <b>A/05</b> )8025(B/D/S)H <b>Z</b>	5	0.50
58	(F/R/T)( <b>A/05</b> )8025(B/D/S)U <b>Z</b>	5	0.60
59	(F/T)( <b>A/05</b> )9025(B/D/S)L <b>Z</b>	5	0.30
60	(F/T)( <b>A/05</b> )9025(B/D/S)M <b>Z</b>	5	0.40
61	(F/T)( <b>A/05</b> )9025(B/D/S)H <b>Z</b>	5	0.50
62	(R/F/T/S/K/D/X)( <b>B/12</b> )14025(B/D/S)L <b>Z</b>	12	0.20
63	(R/F/T/S/K/D/X)( <b>B/12</b> )14025(B/D/S)M <b>Z</b>	12	0.35
64	(R/F/T/S/K/D/X)( <b>B/12</b> )14025(B/D/S)H <b>Z</b>	12	0.60
65	(R/F/T/S/K/D/X)( <b>B/12</b> )14025(B/D/S)U <b>Z</b>	12	1.1
66	(R/F/T/S/K/D/X)( <b>B/12</b> )12032(D/S)L <b>Z</b>	12	0.25
67	(R/F/T/S/K/D/X)( <b>B/12</b> )12032(D/S)M <b>Z</b>	12	0.35



## **TÜV Rheinland Group**

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

Date: April 13, 2023

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

**Component – DC Component Fans,** Model(s): F(R/T)(A/05)8025B(B)(Z), where (A/05) may be A or 05, (B) may be L, M, H or U, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**Component – DC Component Fans,** Model(s): F(R/T)(A/05)8025D(B)(Z), where (A/05) may be A or 05, (B) may be L, M, H or U, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**Component – DC Component Fans,** Model(s): F(R/T)(A/05)8025S(B)(Z), where (A/05) may be A or O(5), O(5) may be L, M, H or U, O(5) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**Component – DC Component Fans,** Model(s): F(T)(A/05)9025B(X)(Z), where (A/05) may be A or 05, (X) may be L, M or H, (Z) stands for 20 variables, each variable may be A through Z, 0 through

**Component – DC Component Fans,** Model(s): F(T)(A/05)9025D(X)(Z), where (A/05) may be A or 05, (X) may be L, M or H, (Z) stands for 20 variables, each variable may be A through Z, 0 through 9,"(", ")","-" or blank.

**Component – DC Component Fans,** Model(s): F(T)(A/05)9025S(X)(Z), where (A/05) may be A or 05, (X) may be L, M or H, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**Component – DC Component Fans,** Model(s): R(A/05)4020B(A)(Z), where (A/05) may be A or 05, (A) may be L or M, (Z) stands for 20 variables, each variable may be A through  $Z_0$  through  $Z_0$ 

**Component – DC Component Fans,** Model(s): R(A/05)4020D(A)(Z), where (A/05) may be A or 05, (A) may be L or M, (Z) stands for 20 variables, each variable may be A through  $Z_0$  through  $Z_0$ 

**Component – DC Component Fans,** Model(s): R(A/05)4020S(A)(Z), where (A/05) may be A or 05, (A) may be L or M, (Z) stands for 20 variables, each variable may be A through  $Z_0$  th

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)12032(D/S)H(Z), where (B/12) may be B or 12, (D/S) may be D or S, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)12032(D/S)L(Z), where (B/12) may be B or 12, (D/S) may be D or S, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)12032(D/S)M(Z), where (B/12) may be B or 12, (D/S) may be D or S, (Z) stands for 20 variables, each variable may be A through Z,0 through 9," (", ")"," -" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)12032(D/S)U(Z), where (B/12) may be B or 12, (D/S) may be D or S, (Z) stands for 20 variables, each variable may be A through Z,0 through 9," (", ")"," -" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)1225X5U(Z), where where (F/T/S/K/D/X) may be F, T, S, K, D or X, (B/12) may be B or 12, X5 may be S, B or D, (Z) stands for 20 variables, each variable may be A through 2,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)14025X5H(Z), where where (F/T/S/K/D/X) may be F, T, S, K, D or X, (B/12) may be B or 12, X5 may be S, B or D, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)14025X5L(Z), where where (F/T/S/K/D/X) may be F, T, S, K, D or X, (B/12) may be B or 12, X5 may be S, B or D, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)14025X5M(Z), where where (F/T/S/K/D/X) may be F, T, S, K, D or X, (B/12) may be B or 12, X5 may be S, B or D, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)14025X5U(Z), where where (F/T/S/K/D/X) may be F, T, S, K, D or X, (B/12) may be B or 12, X5 may be S, B or D, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)4020X5U(Z), where where (F/T/S/K/D/X) may be F, T, S, K, D or X, (B/12) may be B or 12, X5 may be S, B or D, (Z) stands for 20 variables, each variable may be A through 2,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)5015X5H(Z), where where (F/T/S/K/D/X) may be F, T, S, K, D or X, (B/12) may be B or 12, X5 may be S, B or D, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.

**DC Component Fan,** Model(s): R(F/T/S/K/D/X)(B/12)5015X5L(Z), where where (F/T/S/K/D/X) may be F, T, S, K, D or X, (B/12) may be B or 12, X5 may be S, B or D, (Z) stands for 20 variables, each variable may be A through Z,0 through 9,"(", ")","-" or blank.



# **CE** Certificate of Conformity

Certification number: TH2302237-C03-C01

Report number: TH2302237-C03-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:

EN 55032:2015+A1:2020

Standard(s):

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

F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan lan street,Longhua district,Shenzhei Fax:+86-755-86615105

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E. S.	, 1,	Attachment of TH23022	37-C03-C01	N. J.	18
No.	Series	Model	Voltage(Vdc)	Current(A)	Speed(RPM)
1 ,	7530 Blower	B127530BUZ	12	0.42	3800
2	8025 Series	B128025BUZ	12	2.0	6000
	2000	F129238(B/D/S)L <b>Z</b>	12	0.50	1400
3	9238 Series	F129238(B/D/S)MZ	12	0.70	2400
	777	B129733BL <b>Z</b>	12	0.40 🔨	2600
,	10722 G :	B129733BMZ	, S 12 _	0.45	3200
4	9733 Series	B129733BH <b>Z</b>	12 🖑	0.80	3800
Z	3	B129733BU <b>Z</b>	12	1.20	4600
Th	777	B121232BL <b>Z</b>	12	0.30	1500
-	10020 G	B121232BMZ	12	0.40	2000
5	12032 Series	B121232BHZ	12	© 0.70	2400
4	<i>A X</i>	B121232BUZ	5 12	0.90	2800
	. 4 2	R(A/05)4020BLZ	5	0.12	5000
	The The	R(A/05)4020BMZ	5	0.25	8000
<i>. i</i>	1020 G :	R(A/05)4020DLZ	5	0.13	5000
6 ^	4020 Series	R(A/05)4020DMZ	5 6	0.25	8000
	1	R(A/05)4020SLZ	5	0.13	5000
1	3 A	R(A/05)4020SMZ	5	0.25	8000
T	R	(F/R/T)( <b>A/05</b> )8025(B/D/S)L <b>Z</b>	5	× 0.30	2050
Z.	0025 G	(F/R/T)(A/05)8025(B/D/S)MZ	5	0.40	2400
7	8025 Series	(F/R/T)( <b>A/05</b> )8025(B/D/S)H <b>Z</b>	5	0.50	2900
,	2	(F/R/T)( <b>A/05</b> )8025(B/D/S)U <b>Z</b>	5	<u> </u>	3400 🔨
9	A .	(F/T)( <b>A/05</b> )9025(B/D/S)L <b>Z</b>	ž 5 <u>/</u>	0.30	2100
8	9025 Series	(F/T )(A/05)9025(B/D/S)MZ	5 28	0.40	2450
/	7, 3,	(F/T)(A/05)9025(B/D/S)HZ	5,8	0.50	2850
	7,	(R/F/T/S/K/D/X)( <b>B/12</b> )14025( B/D/S)L <b>Z</b>	12	0.20	1500
50	14025 Series	(R/F/T/S/K/D/X)( <b>B/12</b> )14025( B/D/S)M <b>Z</b>	212	0.35	1800
,	14025 Belles	(R/F/T/S/K/D/X)( <b>B/12</b> )14025( B/D/S)H <b>Z</b>	12 1	0.60	2200
	The state of the s	(R/F/T/S/K/D/X)( <b>B/12</b> )14025( B/D/S)U <b>Z</b>	12	1,1	2600
10	12032 Series	(R/F/T/S/K/D/X)( <b>B/12</b> )12032( D/S)L <b>Z</b>	12	0.25	1500



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24	7020 Series	(R/F/T/S/K/D/X)(B/12)7020(B/ D/S)UZ	12	F 1	6300
45	8032 Series	(R/F/T/S/K/D/X)( <b>B/12</b> )8032(B/ D/S)U <b>Z</b>	12	1.1	5600
26	12025 Series	(R/F/T/S/K/D/X)(B/12)1225(B/ D/S)UZ	12	2.0	3200
27	3510 Series	B053510BUZ	F 5 3	0.27	6000
28	5015 Series	B055015BLZ	5 18	0.4	2700
		(T/F/R/S/K/X)055010B/D/SLZ	5	0.20	3000
20	\$5010 G	(T/F/R/S/K/X)055010B/D/SM	5	0.25	4000
29	5010 Series	(T/F/R/S/K/X)055010B/D/SHZ	5 4	0.40	5000
2		(T/F/R/S/K/X)055010B/D/SUZ	5	0.45	6000
Y	- Z.,	(R/F)241225(B/D/S)LZ	24	0.20	1500
20	1005 G	(R/F)241225(B/D/S)MZ	24	0.25	1800
30	1225 Series	(R/F)241225(B/D/S)HZ	24	© 0.30	2100
2	.5	(R/F)241225(B/D/S)UZ	£ 24 x	0.35	2400

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.







## **Certificate of Conformity**

Certification number: TH2302238-C06-C01 Report number: TH2302238-C06-R01

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

EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD Applicant:

GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, 523460 Address:

CN

EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD Manufacturer:

GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, 523460

Address: 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 10 years 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.

Attestation by

Thomas Wong

4F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan Ian street,Longhua district,Shenzhe Fax:+86-755-86615105

TR		Attachment of TH23022	238-C06-C01		4
No.	Series	Model	Voltage(Vdc)	Current(A)	Speed(RPM)
16	7530 Blower	6 B127530BUZ	12	₹ 0.42 X	3800 🗸
	8025 Series	B128025BUZ	¥ 12 ×	2.0	6000
3	417	F129238(B/D/S)LZ	12	0.50	1400
3	9238 Series	F129238(B/D/S)MZ	12	0.70	2400
	,5	B129733BLZ	5 12	0.40	2600
	500000 5	B129733BMZ	12 19	0.45	3200
4	9733 Series	B129733BHZ	12	0.80	3800
TE	778	B129733BUZ	12	1.20	4600
	F	B121232BLZ	12	0.30	1500
4	12022 0	A B121232BMZ	12	<u>چ</u> 0.40	2000
43)	12032 Series	B121232BHZ	12	0.70	2400
	47 2	B121232BUZ	12	0.90	2800
	4020 Series	R(A/05)4020BLZ	多 5	0.12	5000
		R(A/05)4020BMZ	5	0.25	8000
_ ^		R(A/05)4020DLZ	5 6	0.13	5000
6		R(A/05)4020DMZ	5	0.25	8000
		R(A/05)4020SLZ	5	0.13	5000
T.		R(A/05)4020SMZ	5	0.25	8000
Z.		(F/R/T)(A/05)8025(B/D/S)LZ	5	0.30	2050
7	8005 Garian	(F/R/T)( <b>A/05</b> )8025(B/D/S)M <b>Z</b>	4.5	0.40	2400
7	8025 Series	(F/R/T)(A/05)8025(B/D/S)HZ	K 5	∠ 0.50 ∠	2900 🙏
5	A.	(F/R/T)( <b>A/05</b> )8025(B/D/S)U <b>Z</b>	F 5 4	0.60	3400
	3	(F/T )(A/05)9025(B/D/S)LZ	5 28	0.30	2100
8	9025 Series	(F/T)(A/05)9025(B/D/S)MZ	5	0.40	2450
	TA	(F/T)(A/05)9025(B/D/S)HZ	5	0.50	2850
2		(R/F/T/S/K/D/X)( <b>B/12</b> )14025( B/D/S)L <b>Z</b>	12	0.20	1500
9	14025 Series	(R/F/T/S/K/D/X)( <b>B/12</b> )14025( B/D/S)M <b>Z</b>	12	0.35	1800
,	17023 Belles	(R/F/T/S/K/D/X)( <b>B/12</b> )14025( B/D/S)H <b>Z</b>	12	0.60	2200
	A)	(R/F/T/S/K/D/X)( <b>B/12</b> )14025( B/D/S)U <b>Z</b>	12	1.1	2600



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23	9025 Series	(R/F/T/S/K/D/X)( <b>B/12</b> )9025(B/D/S)U <b>Z</b>	12	F 1.1	4500
24	7020 Series	(R/F/T/S/K/D/X)( <b>B/12</b> )7020(B/ D/S) <b>UZ</b>	12	_ 1	6300
45	8032 Series	(R/F/T/S/K/D/X)(B/12)8032(B/ D/S)UZ	12	L 1.1 L	5600
26	12025 Series	(R/F/T/S/K/D/X)( <b>B/12</b> )1225(B/ D/S)U <b>Z</b>	12 2	2.0	3200
27	3510 Series	B053510BUZ	5	0.27	6000
28	5015 Series	B055015BL <b>Z</b>	5 5	0.4	2700
	5010 Series	(T/F/R/S/K/X)055010B/D/SLZ	5 19	0.20	3000
20-3		(T/F/R/S/K/X)055010B/D/SM	5	0.25	4000
29		(T/F/R/S/K/X)055010B/D/SHZ	5	0.40	5000
		(T/F/R/S/K/X)055010B/D/SUZ	10 mg 4 7 5	0.45	6000
37	1225 Series	(R/F)241225(B/D/S)LZ	24	9 0.20	1500
47		(R/F)241225(B/D/S)MZ	\$ 24	0.25	1800
30		(R/F)241225(B/D/S)HZ	24	0.30	2100
		(R/F)241225(B/D/S)UZ	24	0.35	2400

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.







## **Certificate of Conformity**

Certification number: TH2302238-C05-C01 Report number: TH2110138-C05-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

GE KENG INDUSTRIAL ZONE HENG LI TOWN DONGGUAN, GUANGDONG, Address:

523460, CN

DC FAN

Product: Model:

See attachment

Rating:

See attachment

Tested according

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 10 years 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.

Thomas Wong

of Issued: 2023

1F,A3 BLDG,The Silicon Valley Power intelligent terminal industrial park,Guan lan street,Longhua district,Shenzhei Fax:+86-755-86615105

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TR		Attachment of TH23022	38-C05-C01	~	À
No.	Series	Model	Voltage(Vdc)	Current(A)	Speed(RPM
149	7530 Blower	B127530BUZ	12	₹ <sup>0.42</sup>	3800
2	8025 Series	B128025BUZ	2 12	2.0	6000
2	0228 Saulas	F129238(B/D/S)LZ	12	0.50	1400
3	9238 Series	F129238(B/D/S)MZ	12	0.70 🙏	2400
	45	B129733BLZ	19 12 A	0.40	2600
1	V 0722 Saving	B129733BMZ	12 🗸	0.45	3200
4	9733 Series	B129733BHZ	12.7	0.80	3800
Y	371	B129733BUZ	12	1.20	4600
	772	B121232BLZ	12	0.30	1500
5	12022 Savias	B121232BMZ	12	ري 0.40 على الم	2000
2	12032 Series	B121232BHZ	212	0.70	2400
	4 3	B121232BUZ	12	0.90	2800
	And Series &	R(A/05)4020BLZ	5	0.12	5000
		R(A/05)4020BMZ	5	0.25	8000
6		R(A/05)4020DLZ	5 6	0.13	5000
0	4020 Series	R(A/05)4020DMZ	5	0.25	8000
	S. A.	R(A/05)4020SLZ	5	0.13	5000
25		R(A/05)4020SMZ	5	0.25	8000
E.		(F/R/T)(A/05)8025(B/D/S)LZ	5	0.30	2050
7	9025 Souice	(F/R/T)(A/05)8025(B/D/S)MZ	5	0.40	<b>\$ 2400</b>
7	8025 Series	(F/R/T)(A/05)8025(B/D/S)HZ	5	△ 0.50 △	2900
3	N. A.	(F/R/T)(A/05)8025(B/D/S)UZ	5 5	0.60	3400
	A S	(F/T)(A/05)9025(B/D/S)LZ	5 2	0.30	2100
8	9025 Series	(F/T)(A/05)9025(B/D/S)MZ	5 8	0.40	2450
	7,7	(F/T)(A/05)9025(B/D/S)HZ	5	0.50	2850
LU	_	(R/F/T/S/K/D/X)(B/12)14025( B/D/S)LZ	12	0.20	1500
9	14025 Series	(R/F/T/S/K/D/X)(B/12)14025( B/D/S)MZ	12	0.35	1800
	A Sound In	(R/F/T/S/K/D/X)(B/12)14025( B/D/S)HZ	12	0.60	2200
	, č	(R/F/T/S/K/D/X)(B/12)14025( B/D/S)UZ	12	1.1	2600



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23	9025 Series	(R/F/T/S/K/D/X)(B/12)9025(B/ D/S)UZ	12	1.1	4500
24	7020 Series	(R/F/T/S/K/D/X)(B/12)7020(B/ D/S)UZ	12,5	<u>1</u>	6300
45	8032 Series	(R/F/T/S/K/D/X)(B/12)8032(B/ D/S)UZ	12	1.1	5600
26	12025 Series	(R/F/T/S/K/D/X)(B/12)1225(B/ D/S)UZ	12	2.0	3200
27	3510 Series	B053510BUZ	5	0.27 🙏	6000
28	5015 Series	B055015BLZ	(5) 5 K	0.4	2700
	5010 Series	(T/F/R/S/K/X)055010B/D/SLZ	5 4	0.20	3000
205		(T/F/R/S/K/X)055010B/D/SM	为 5天	0.25	4000
29		(T/F/R/S/K/X)055010B/D/SHZ	5	0.40	5000
		(T/F/R/S/K/X)055010B/D/SUZ	5	0.45	6000
100	1225 Series	(R/F)241225(B/D/S)LZ	24	4° 0.20	1500
		(R/F)241225(B/D/S)MZ	24	0.25	1800
30		(R/F)241225(B/D/S)HZ	24	0.30	2100
		(R/F)241225(B/D/S)UZ	24	0.35	2400

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.