

SPECIFICATION FOR APPROVAL

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	3V(25deg.C Power ON/OFF)
2-3	Operating Voltage Range	3V~5.5V
2-4	Rated Current	Max.0.40A Duty cycle =100%
2-5	Rated Power	Max.2.00W Duty cycle =100%
2-6	Start Peak Current	N/A
2-7	UL Current On Label	0.34 A
2-8	Rated Speed	0 R.P.M Duty cycle =0% 4500±10% R.P.M Duty cycle =100 % (Testing Speed After Continuous 3Minutes Operation At Ambient Temperature Of 25°C)
2-9	Air Flow (At Zero Static Pressure)	4.68 CFM (Min. 4.21CFM) Duty cycle =100% 0.13 m³/min (Min. 0.12 m³/min)
2-10	Static Pressure (At Zero Flow)	15.23 mmH2O (Min. 12.34 mmH2O) Duty cycle =100% 0.60 Inh-H2O (Min. 0.49 Inh-H2O)
2-11	Sound Level	32.5 dB(A) (Max. 35.0 dB(A))
2-12	Product Type	☒ RoHS ☐ HF
2-13	Life Expectancy	40,000 Hours at 25°C.
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

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3. MECHANICAL:

NO	ITEM	SPECIFICATION
3-1	DIMENSIONS	SEE DIMENSIONS DRAWING
3-2	COVER	☒ UPPER COVER SPCC ☒ LOWER COVER PBT (BLACK) PLASTIC (UL 94V-0)
3-3	IMPELLER	☒ PBT (BLACK) PLASTIC (UL 94V-0) ☐ PC PLASTIC {UL 94V-2}
3-4	WEIGHT	22 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 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 A SOLEPLATE WITH A THICKNESS OF 2cm.

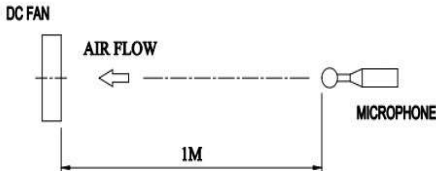
SPECIFICATION FOR APPROVAL

4-9. LIFE EXPECTANCY----- THE "LIFE EXPECTANCY" OF EVERFLOW FANS IS DETERMINED IN EVERFLOW'S RELIABILITY TEST LABORATORY BY USING TEMPERATURE CHAMBERS. THE "LIFE EXPECTANCY" 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.

4-12. NOISE TEST ----- MEASURED IN A SEMI-ANECHOIC CHAMBER WITH BACKGROUND NOISE LEVEL BELOW 19 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: 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 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.

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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 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.

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%

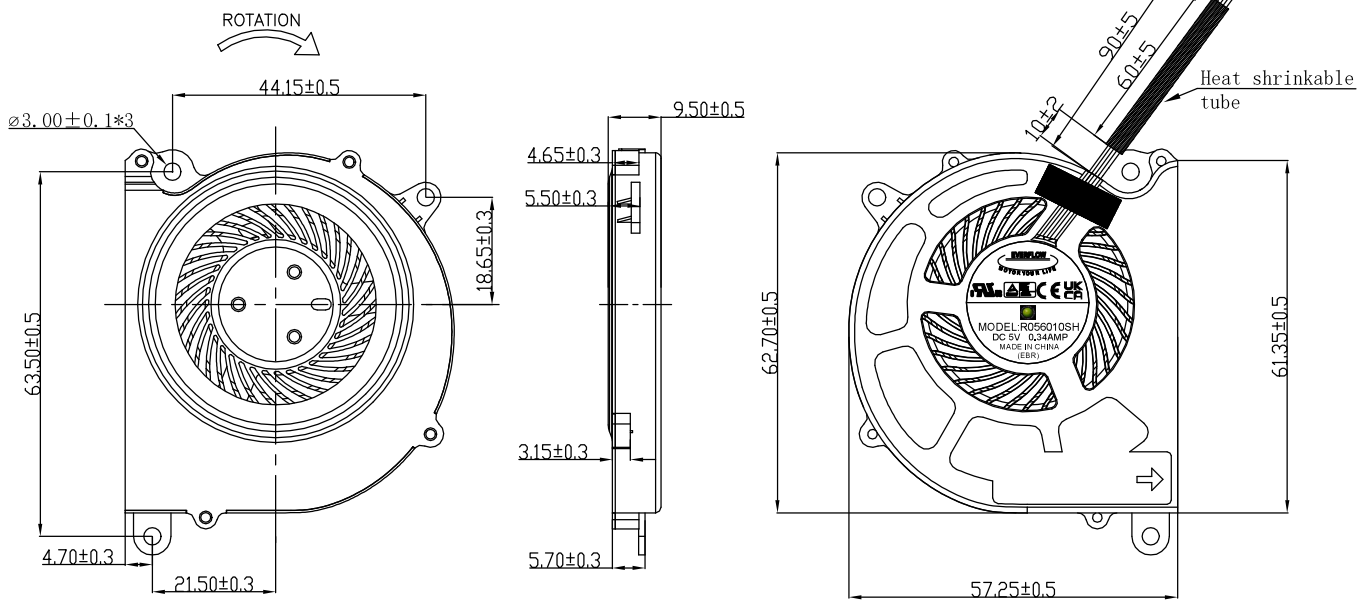
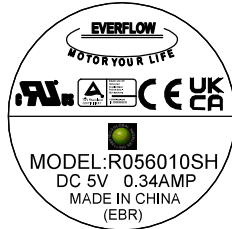
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- 5-12. CUSTOMER SHALL CONFIRM THE COMPATIBILITY AND RELIABILITY OF THE FAN IN THE ACTUAL SETUP OR UNIT APPLICATION. THIS INCLUDES CONFIRMATION ON SET OR UNIT LIFE, ELECTRICAL NOISE, MECHANICAL NOISE, VIBRATION, STATIC ELECTRICITY, ELECTRIC POWER NOISE, 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 "4.7 μ F 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.

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6. DIMENSION DRAWING. UNIT: mm

EF Part no	R056010SHAF1R1AR
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NOTES:

1. LEAD WIRE UL 1061 AWG#30
 PIN 1: RED WIRE--- (+)
 PIN 2: BLUE WIRE---(PWM INPUT)
 PIN 3: BLACK WIRE---(-)
 PIN 4: YELLOW WIRE---(SIGNAL)
2. HOUSING: 51021-4P (WHITE) OR EQUIVAIENT

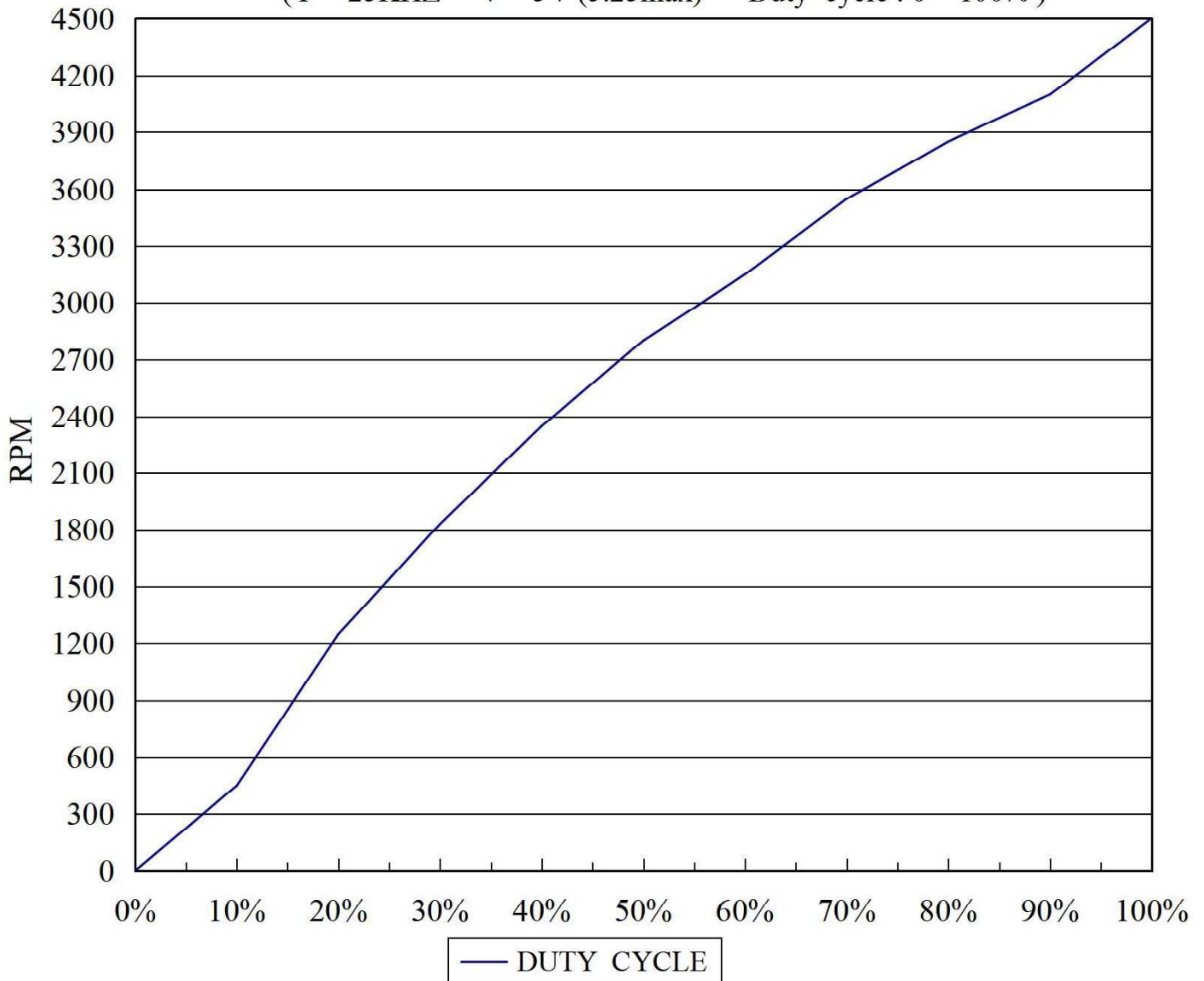
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7. DUTY CYCLE CURVE CHART

DUTY CYCLE	SPEED (RPM)	RANGE	CURRENT
0%	0	0	<0.02A
100%	4500	±10%	<0.40A

DUTY CYCLE CURVE CHART

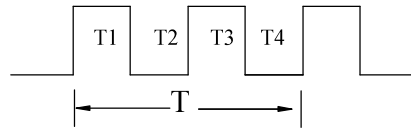
(F = 25KHZ V = 5V (5.25max) Duty cycle : 0 ~ 100%)



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8. CHARACTERISTICS & DEFINITION

- 4 Pole Motor: Fan with 4 pole motor.



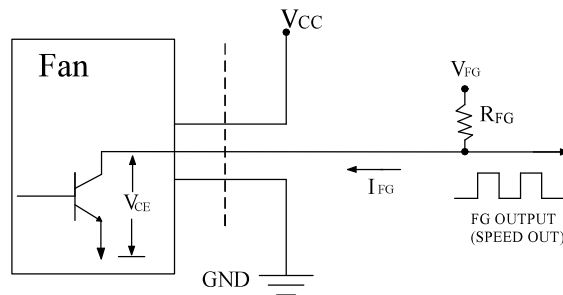
$$1 \text{ Rotation} = T$$

$$T = T_1 + T_2 + T_3 + T_4 = 1 \text{ Rotation}$$

$$T_1 = T_2 = T_3 = T_4 = \frac{60}{4 \times \text{r.p.m}} \text{ Sec}$$

- FG(Frequency Generator)Signal External Circuit:

Open-collector output for rotation frequency detection

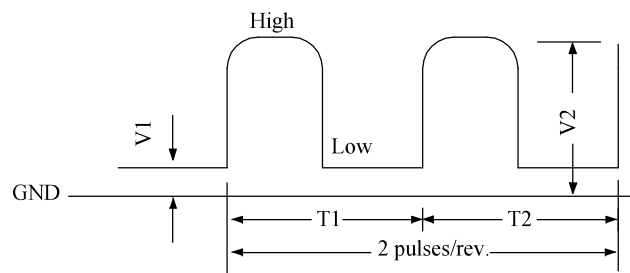


Note: Max. $V_{FG} = 5.5 \text{ VDC}$, Max. $I_{FG} = 5 \text{ mA}$, $\Rightarrow R_{FG} \geq V_{FG} / I_{FG}$

When $V_{FG} = 3.3 \text{ V}$ We Recommend $R_{FG} = 4.7 \text{ K}\Omega$

- FG(Frequency Generator)Type Output Waveform:

1. Motor Rotating Condition (at 25°C , $V = 5 \text{ VDC}$)



V_1 : within 0.5 V when I_{FG} Less Than 3 mA

V_2 : V_{FG} , FG signal output voltage, maximum rating: 5.5 VDC

Duty = $T_1 / (T_1 + T_2) \times 100\% = (50 \pm 20)\%$ (measured between $0.3 \times V_2 \sim 0.7 \times V_2$)

$V_1 \sim V_2$ rise time: less than 1.0 ms

$V_2 \sim V_1$ fall time: less than 1.0 ms

Rotation Speed (RPM) = $(60/2) \times f_{FG} = 30 \times f_{FG}$

f_{FG} : frequency of FG output waveform (Hz)

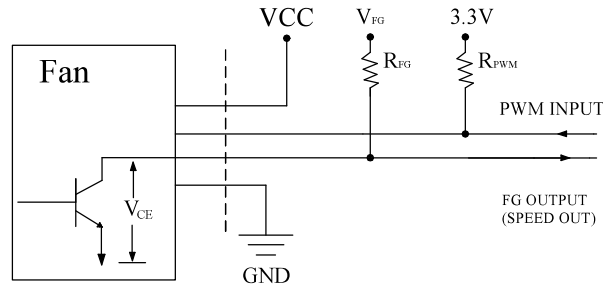
2. Motor locked condition (at $V_{cc} = 5.0 \text{ VDC}$)

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

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9. CHARACTERISTICS & DEFINITION

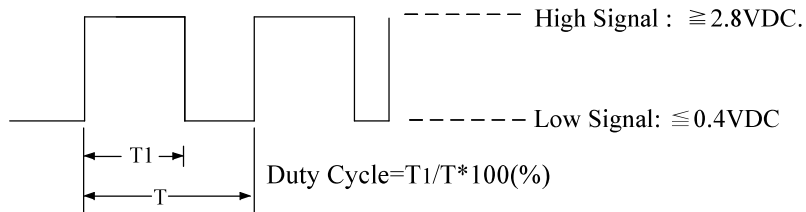
- PWM Circuit:(for reference)



When $V_{RPM} = 3.3V$ We Recommend $R_{PWM} = 1-10K\Omega$

- PWM Control Signal Input:

Signal Voltage Range :DC 0V ~5.5V ($V = 5V$)



- 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.

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10.PQ CURVE

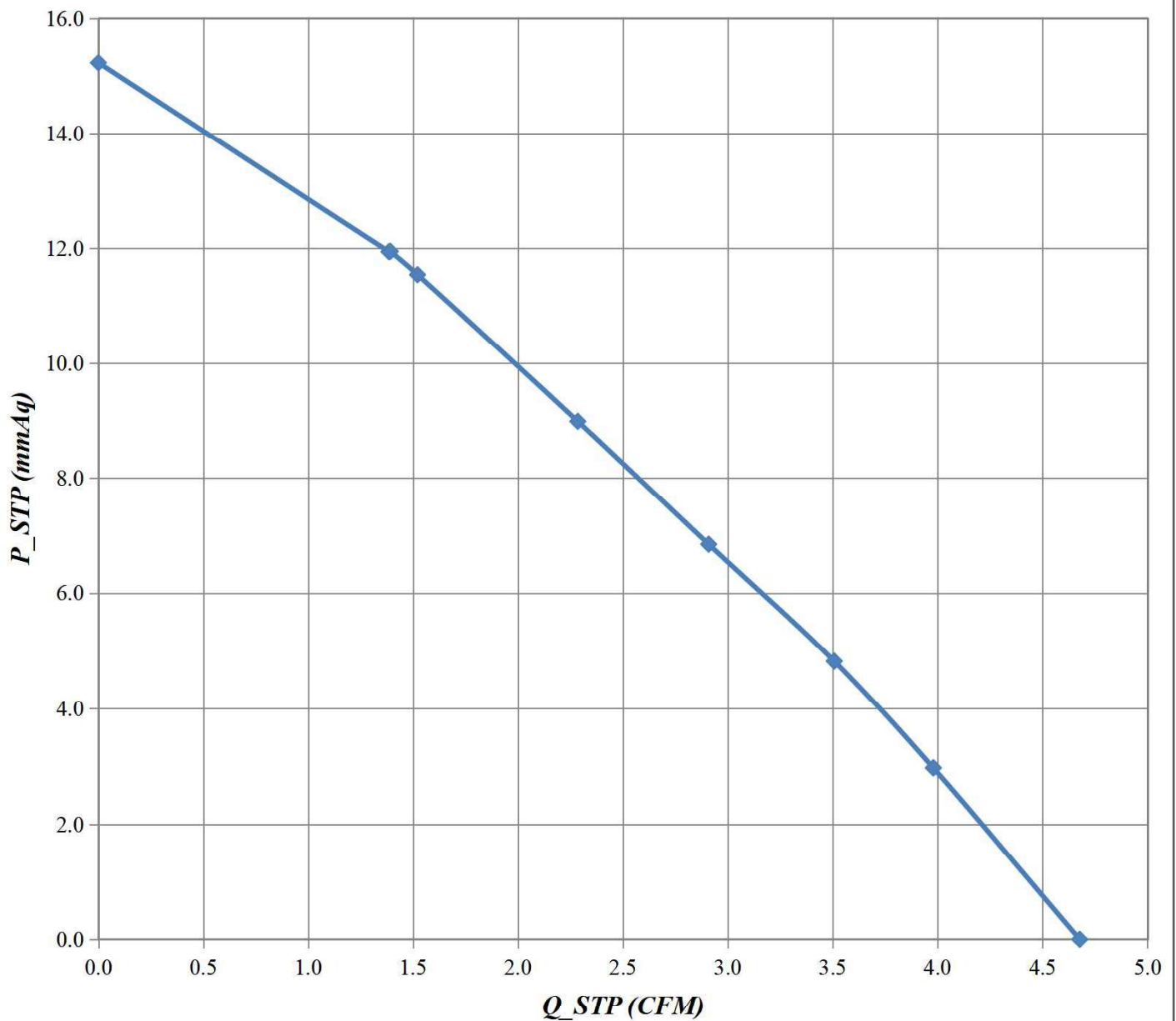
PQ Test Report

TEST CONDITION:

INPUT VOLTAGE ----- OPERATION VOLTAGE (DC 5V)

TEMPERATURE ----- ROOM TEMPERATURE

HUMIDITY ----- 65 % RH



Zertifikat Certificate



Zertifikat Nr. *Certificate No.*
R 50027628

Blatt *Page*
0011

Ihr Zeichen *Client Reference*
P00989074

Unser Zeichen *Our Reference*
ZTW1-YML- 10006912 012

Ausstellungsdatum
17.03.2023

Date of Issue
(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*



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):

RX2X3X4X5X6Z, FX2X3X4X5X6Z, TX2X3X4X5X6Z

SX2X3X4X5X6Z, BX2X3X4X5X6Z, KX2X3X4X5X6Z

XX2X3X4X5X6Z (EVERFLOW)

X2 steht für (stands for): 05, 12, 24

X3 steht für (stands for): 40, 50, 60, 70, 75, 80, 90

X4 steht für (stands for): 10, 15, 20, 25, 30, 32

X5 steht für (stands for): B, D, S

X6 steht für (stands for): L, M, H, U

Z steht für : 20 Variablen, jede Variable kann A-Z, 0-9,

(stands for) "(", ")", "-", " " oder freibleibend

(20 variables, each variable may be A-Z,

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

Nennspannung (Rated Voltage): siehe Anlage (see appendix)

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

ANLAGE (Appendix): 1

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.



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

Jacky C. W. Chen

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

Date : 17.03.2023
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 50027628 0011
Report No. : 10006912 012

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



Jacky C. W. Chen

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

Appendix to TÜV approved Certificate No.: R 50027628**Certified Product : DC Fan****Report Number : 10006912 012**

**Type Designation : RX2X3X4X5X6Z, FX2X3X4X5X6Z, TX2X3X4X5X6Z,
 SX2X3X4X5X6Z, BX2X3X4X5X6Z, KX2X3X4X5X6Z,
 XX2X3X4X5X6Z (EVERFLOW) (X2=05,12,24; X3=40,50,60,70,
 75,80,90; X4=10,15,20,25,30,32, X5=B,D,S; X6=L,M,H,U; Z=20
 variables, each variable may be A-Z, 0-9, "(", ")", "-" or blank)**

23	R(F/S/X/T/K)124010BH ^Z	12	0.14
24	R(F/S/X/T/K)124010BU ^Z	12	0.18
25	R(F/S/X/T/K)124020BL ^Z	12	0.13
26	R(F/S/X/T/K)124020BM ^Z	12	0.16
27	R(F/S/X/T/K)124020BH ^Z	12	0.19
28	R(F/S/X/T/K)124020BU ^Z	12	0.25
29	R(F/S/X/T/K)124020DL ^Z	12	0.13
30	R(F/S/X/T/K)124020DM ^Z	12	0.16
31	R(F/S/X/T/K)124020DH ^Z	12	0.19
32	R(F/S/X/T/K)124020DU ^Z	12	0.25
33	R(F/S/X/T/K)124020SL ^Z	12	0.13
34	R(F/S/X/T/K)124020SM ^Z	12	0.16
35	R(F/S/X/T/K)124020SH ^Z	12	0.19
36	R(F/S/X/T/K)124020SU ^Z	12	0.25
37	R(F/S/X/T/K)125010BL ^Z	12	0.08
38	R(F/S/X/T/K)125010BM ^Z	12	0.13
39	R(F/S/X/T/K)125010BH ^Z	12	0.16
40	R(F/S/X/T/K)125010DL ^Z	12	0.08
41	R(F/S/X/T/K)125010DM ^Z	12	0.11
42	R(F/S/X/T/K)125010DH ^Z	12	0.16
43	R(F/S/X/T/K)125010SL ^Z	12	0.12
44	R(F/S/X/T/K)125010SM ^Z	12	0.14
45	R(F/S/X/T/K)125010SH ^Z	12	0.16
46	R(F/S/X/T/K)056010SL ^Z	5	0.25
47	R(F/S/X/T/K)056010SM ^Z	5	0.28

Appendix to TÜV approved Certificate No.: R 50027628**Certified Product : DC Fan****Report Number : 10006912 012**

**Type Designation : RX2X3X4X5X6Z, FX2X3X4X5X6Z, TX2X3X4X5X6Z,
 SX2X3X4X5X6Z, BX2X3X4X5X6Z, KX2X3X4X5X6Z,
 XX2X3X4X5X6Z (EVERFLOW) (X2=05,12,24; X3=40,50,60,70,
 75,80,90; X4=10,15,20,25,30,32, X5=B,D,S; X6=L,M,H,U; Z=20
 variables, each variable may be A-Z, 0-9, "(", ")", "-", or blank)**

48	R(F/S/X/T/K)056010SHZ	5	0.34
49	R(F/S/X/T/K)056010DLZ	5	0.25
50	R(F/S/X/T/K)056010DMZ	5	0.28
51	R(F/S/X/T/K)056010DHZ	5	0.34
52	R(F/S/X/T/K)056010BLZ	5	0.25
53	R(F/S/X/T/K)056010BMZ	5	0.28
54	R(F/S/X/T/K)056010BHZ	5	0.34
55	R(F/S/X/T/K)126010BLZ	12	0.10
56	R(F/S/X/T/K)126010BMZ	12	0.14
57	(F/S/X/T/K)126010BHZ	12	0.20
58	R(F/S/X/T/K)126010BUZ	12	0.25
59	R(F/S/X/T/K)126010DLZ	12	0.10
60	R(F/S/X/T/K)126010DMZ	12	0.16
61	R(F/S/X/T/K)126010DHZ	12	0.20
62	R(F/S/X/T/K)126010DUZ	12	0.25
63	R(F/S/X/T/K)126010SLZ	12	0.10
64	R(F/S/X/T/K)126010SMZ	12	0.14
65	R(F/S/X/T/K)126010SHZ	12	0.18
66	R(F/S/X/T/K)126010SUZ	12	0.25
67	R(F/S/X/T/K)126015BLZ	12	0.09
68	R(F/S/X/T/K)126015BMZ	12	0.13
69	R(F/S/X/T/K)126015BHZ	12	0.16
70	R(F/S/X/T/K)126015DLZ	12	0.11
71	R(F/S/X/T/K)126015DMZ	12	0.12
72	R(F/S/X/T/K)126015DHZ	12	0.14

Appendix to TÜV approved Certificate No.: R 50027628**Certified Product : DC Fan****Report Number : 10006912 012**

Type Designation : RX2X3X4X5X6Z, FX2X3X4X5X6Z, TX2X3X4X5X6Z, SX2X3X4X5X6Z, BX2X3X4X5X6Z, KX2X3X4X5X6Z, XX2X3X4X5X6Z (EVERFLOW) (X2=05,12,24; X3=40,50,60,70, 75,80,90; X4=10,15,20,25,30,32, X5=B,D,S; X6=L,M,H,U; Z=20 variables, each variable may be A-Z, 0-9, "(",")","-" or blank)

223	(R/F/S/X/T/K)129025BMZ	12	0.18
224	(R/F/S/X/T/K)129025BHZ	12	0.24
225	(R/F/S/X/T/K)129025DLZ	12	0.13
226	(R/F/S/X/T/K)129025DMZ	12	0.18
227	(R/F/S/X/T/K)129025DHZ	12	0.24
228	(R/F/S/X/T/K)129025SLZ	12	0.12
229	(R/F/S/X/T/K)129025SMZ	12	0.18
230	(R/F/S/X/T/K)129025SHZ	12	0.25
231	F129032BLZ	12	0.14
232	F129032BMZ	12	0.20
233	F129032BHZ	12	0.48
234	F129032DLZ	12	0.14
235	F129032DMZ	12	0.20
236	F129032DHZ	12	0.48
237	F129032SLZ	12	0.14
238	F129032SMZ	12	0.20
239	F129032SHZ	12	0.48

Date: March 17, 2023**Certification**

Jacky Chen

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

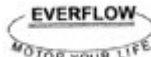
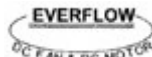
EVERFLOW PRECISION ELECTRONIC (DONG GUAN) CO LTD

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

DC Component Fans, Model(s): (A)056015(C)(Y)(Z) where (A) may be R, F, T, or B, (C) may be S, B, or D, (Y) may be U, H, M, or L, (Z) stands for 20 variables, each variable may be A through Z, 0 through 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



Attachment of TH2302237-C01-C01

No.	Series	Model	Voltage(Vdc)	Current(A)	Speed(RPM)
1	4010 Series	(R/F/S/X/T/K)124010(B/D/S)LZ	12	0.06	5000
		(R/F/S/X/T/K)124010(B/D/S)MZ	12	0.08	6000
		(R/F/S/X/T/K)124010(B/D/S)HZ	12	0.10	7000
		(R/F/S/X/T/K)124010(B/D/S)UZ	12	0.13	8000
2	4010 Series	(R/F/S/X/T/K)124010(B/D/S)LZ	12	0.10	5000
		(R/F/S/X/T/K)124010(B/D/S)MZ	12	0.12	6000
		(R/F/S/X/T/K)124010(B/D/S)HZ	12	0.14	7000
		(R/F/S/X/T/K)124010(B/D/S)UZ	12	0.18	8000
3	4020 Series	(R/F/S/X/T/K)124020(B/D/S)LZ	12	0.13	5000
		(R/F/S/X/T/K)124020(B/D/S)MZ	12	0.16	7000
		(R/F/S/X/T/K)124020(B/D/S)HZ	12	0.19	8000
		(R/F/S/X/T/K)124020(B/D/S)UZ	12	0.25	10000
4	5010 Series	(R/F/S/X/T/K)125010BLZ	12	0.08	3500
		(R/F/S/X/T/K)125010BMZ	12	0.13	4500
		(R/F/S/X/T/K)125010BHZ	12	0.16	5500
		(R/F/S/X/T/K)125010DLZ	12	0.08	3500
		(R/F/S/X/T/K)125010DMZ	12	0.11	4500
		(R/F/S/X/T/K)125010DHz	12	0.16	5500
		(R/F/S/X/T/K)125010SLZ	12	0.12	3500
		(R/F/S/X/T/K)125010SMZ	12	0.14	4500
		(R/F/S/X/T/K)125010SHZ	12	0.16	5500
5	6010 Series	(R/F/S/X/T/K)056010(B/D/S)LZ	5	0.25	3000
		(R/F/S/X/T/K)056010(B/D/S)MZ	5	0.28	3600
		(R/F/S/X/T/K)056010(B/D/S)HZ	5	0.34	4200
6	6010 Series	(R/F/S/X/T/K)126010BLZ	12	0.10	3000
		(R/F/S/X/T/K)126010BMZ	12	0.14	3600
		(R/F/S/X/T/K)126010BHZ	12	0.20	4200
		(R/F/S/X/T/K)126010BUZ	12	0.25	4800
		(R/F/S/X/T/K)126010DLZ	12	0.10	3000



Shenzhen Tian Hai Test Technology Co.,Ltd.

		(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-C02-C01

Report number: TH2302238-C02-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.



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>



Attachment of TH2302238-C02-C01

No.	Series	Model	Voltage(Vdc)	Current(A)	Speed(RPM)
1	4010 Series	(R/F/S/X/T/K)124010(B/D/S)LZ	12	0.06	5000
		(R/F/S/X/T/K)124010(B/D/S)MZ	12	0.08	6000
		(R/F/S/X/T/K)124010(B/D/S)HZ	12	0.10	7000
		(R/F/S/X/T/K)124010(B/D/S)UZ	12	0.13	8000
2	4010 Series	(R/F/S/X/T/K)124010(B/D/S)LZ	12	0.10	5000
		(R/F/S/X/T/K)124010(B/D/S)MZ	12	0.12	6000
		(R/F/S/X/T/K)124010(B/D/S)HZ	12	0.14	7000
		(R/F/S/X/T/K)124010(B/D/S)UZ	12	0.18	8000
3	4020 Series	(R/F/S/X/T/K)124020(B/D/S)LZ	12	0.13	5000
		(R/F/S/X/T/K)124020(B/D/S)MZ	12	0.16	7000
		(R/F/S/X/T/K)124020(B/D/S)HZ	12	0.19	8000
		(R/F/S/X/T/K)124020(B/D/S)UZ	12	0.25	10000
4	5010 Series	(R/F/S/X/T/K)125010BLZ	12	0.08	3500
		(R/F/S/X/T/K)125010BMZ	12	0.13	4500
		(R/F/S/X/T/K)125010BHZ	12	0.16	5500
		(R/F/S/X/T/K)125010DLZ	12	0.08	3500
		(R/F/S/X/T/K)125010DMZ	12	0.11	4500
		(R/F/S/X/T/K)125010DHZ	12	0.16	5500
		(R/F/S/X/T/K)125010SLZ	12	0.12	3500
		(R/F/S/X/T/K)125010SMZ	12	0.14	4500
		(R/F/S/X/T/K)125010SHZ	12	0.16	5500
5	6010 Series	(R/F/S/X/T/K)056010(B/D/S)LZ	5	0.25	3000
		(R/F/S/X/T/K)056010(B/D/S)MZ	5	0.28	3600
		(R/F/S/X/T/K)056010(B/D/S)HZ	5	0.34	4200
6	6010 Series	(R/F/S/X/T/K)126010BLZ	12	0.10	3000
		(R/F/S/X/T/K)126010BMZ	12	0.14	3600
		(R/F/S/X/T/K)126010BHZ	12	0.20	4200



Shenzhen Tian Hai Test Technology Co.,Ltd.

		(R/F/S/X/T/K)123510(B/D/S)HZ	12	0.25	9000
26	4020 Series	(R/F/S/X/T/K)124020(B/D/S)LZ	12	0.13	5000
		(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-C01-C01

Report number: TH2110138-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 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 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



Date of Issued: 2023-02-28



Attachment of TH2302238-C01-C01

No.	Series	Model	Voltage(Vdc)	Current(A)	Speed(RPM)
1	4010 Series	(R/F/S/X/T/K)124010(B/D/S)LZ	12	0.06	5000
		(R/F/S/X/T/K)124010(B/D/S)MZ	12	0.08	6000
		(R/F/S/X/T/K)124010(B/D/S)HZ	12	0.10	7000
		(R/F/S/X/T/K)124010(B/D/S)UZ	12	0.13	8000
2	4010 Series	(R/F/S/X/T/K)124010(B/D/S)LZ	12	0.10	5000
		(R/F/S/X/T/K)124010(B/D/S)MZ	12	0.12	6000
		(R/F/S/X/T/K)124010(B/D/S)HZ	12	0.14	7000
		(R/F/S/X/T/K)124010(B/D/S)UZ	12	0.18	8000
3	4020 Series	(R/F/S/X/T/K)124020(B/D/S)LZ	12	0.13	5000
		(R/F/S/X/T/K)124020(B/D/S)MZ	12	0.16	7000
		(R/F/S/X/T/K)124020(B/D/S)HZ	12	0.19	8000
		(R/F/S/X/T/K)124020(B/D/S)UZ	12	0.25	10000
4	5010 Series	(R/F/S/X/T/K)125010BLZ	12	0.08	3500
		(R/F/S/X/T/K)125010BMZ	12	0.13	4500
		(R/F/S/X/T/K)125010BHZ	12	0.16	5500
		(R/F/S/X/T/K)125010DLZ	12	0.08	3500
		(R/F/S/X/T/K)125010DMZ	12	0.11	4500
		(R/F/S/X/T/K)125010DHz	12	0.16	5500
		(R/F/S/X/T/K)125010SLZ	12	0.12	3500
		(R/F/S/X/T/K)125010SMZ	12	0.14	4500
		(R/F/S/X/T/K)125010SHZ	12	0.16	5500
5	6010 Series	(R/F/S/X/T/K)056010(B/D/S)LZ	5	0.25	3000
		(R/F/S/X/T/K)056010(B/D/S)MZ	5	0.28	3600
		(R/F/S/X/T/K)056010(B/D/S)HZ	5	0.34	4200
6	6010 Series	(R/F/S/X/T/K)126010BLZ	12	0.10	3000
		(R/F/S/X/T/K)126010BMZ	12	0.14	3600
		(R/F/S/X/T/K)126010BHZ	12	0.20	4200
		(R/F/S/X/T/K)126010BUZ	12	0.25	4800



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26	4020 Series	(R/F/S/X/T/K)124020(B/D/S)LZ	12	0.13	5000
		(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.