



## SPECIFICATION FOR APPROVAL

**CUSTOMER:** Chip

**EVERCOOL MODEL NO:** EC12038M24S

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**DESCRIPTION:** DC24 FAN

APPROVED BY (AUTHORISED)	APPROVED
	<b>Alex</b>
	CHECKED
	<b>Xiongwei</b>
	DRAWN
	<b>Chenjie</b>
	SALES
	<b>Richard</b>

\* Please confirm your acceptance by return fax or mail.

SPEC NO	ISSUE DATE	EDITION	REVISED DATE
20180928G01	2018/9/28	A0	2018/9/28

THE PRODUCTION ACCORD WITH EUROPE UNION ROHS STANDARD

**EVERCOOL THERMAL CO., LTD**

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## I. GENERAL SPECIFICATION

Item	Specification
1.Part NO.	EC12038M24S
2.Outline Dimension	120*120*38
3.Rated Voltage	24 VDC
4.Starting Voltage	12 VDC
5.Operating Voltage Range	12 VDC~ 26 VDC
6.Rated Current*	0.2 A
7.Rated Power Consumption*	4.8 W
8.Rated Speed*	2300 RPM±15%
9.Max. Airflow**	99.63 CFM(ft3/min)
10.Max. Static Pressure**	0.23 In-H2O
11.Noise Level***	<39.2 dB(A)
12.Life Expectancy	25000 hrs at 25°C
13.No of Polarity	4 Poles
14.Direction of Rotation	Counter-Clockwise

**Noted:**

**\*Input Current Speed Power Consumption**

Measured after continuous 30 minutes  
operation at rated voltage in free air  
at ambient temperature of 25 °C, 65% relative humidity

**\*\*Performance**

Measured with use of double chamber. The value  
are recorded when the fan speed is stabilized  
at rated voltage.

**\*\*\*Noise Level**

Measured at rated voltage in a semi-anechoic chamber  
with background noise below than 20 dB(A).  
The measuring distance is in one meter from microphone  
to inlet of the fan.

## II. ELECTRICAL SPECIFICATION

Item		Specification
1.Polarity Protection	✓ YES	Be capable of endurance when Vcc & GRD are exchanged
	NO	
2.Auto restart	✓ YES	Locked motor protection
	NO	
3.Insulation Resistance		10MΩ/b/w unshielded wire and frame at 500 VDC/min
4.Dielectric Strength		5Ma Max./Measured b/w lead wire and frame at 500VAC/min

## III. MAIN MATERIALS / PARTS SPECIFICATION

Item		Specification				
1.Materials of Frame		Thermoplastic PBT of UL 94V-0(BK)				
2.Materials of Fan Blade						
3.Bobbin						
4.Bearing		Dual ball bearing				
		1 ball & 1 sleeve bearing				
	✓	Sleeve bearing				
		EL bearing				
5.Lead wire	✓	Red (+)	UL#	1007	26	AWG
	✓	Black (-)	UL#	1007	26	AWG
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6.Connector		2510 2P				

## IV. ENVIRONMENT SPECIFICATION

Item	Specification
1.Operation Temperature	-10℃~+70℃/66%(RH), high / low temperature test for 24 hours, temperature change: 30℃/hours.
2.Storage Temperature	-40℃~+70℃/66%(RH), high / low temperature test for 24 hours, temperature change: 30℃/hours.

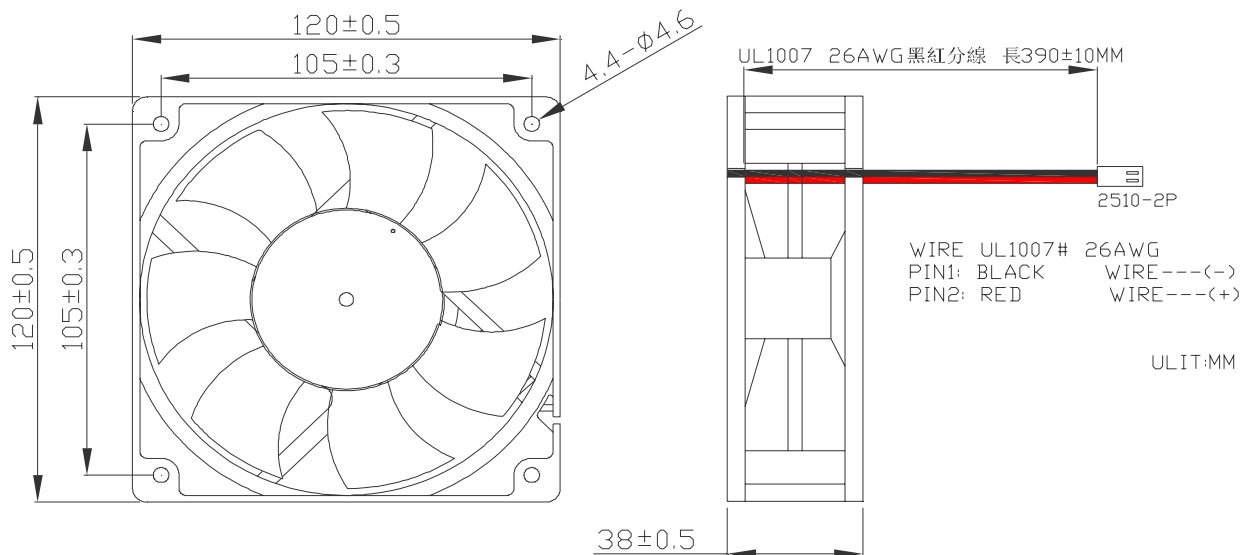
## V. DROPPING TEST

Prepared in minimum packing condition, fan will withstand one drop each on three surfaces from 30 cm height onto a 10mm thick hard wooden board.

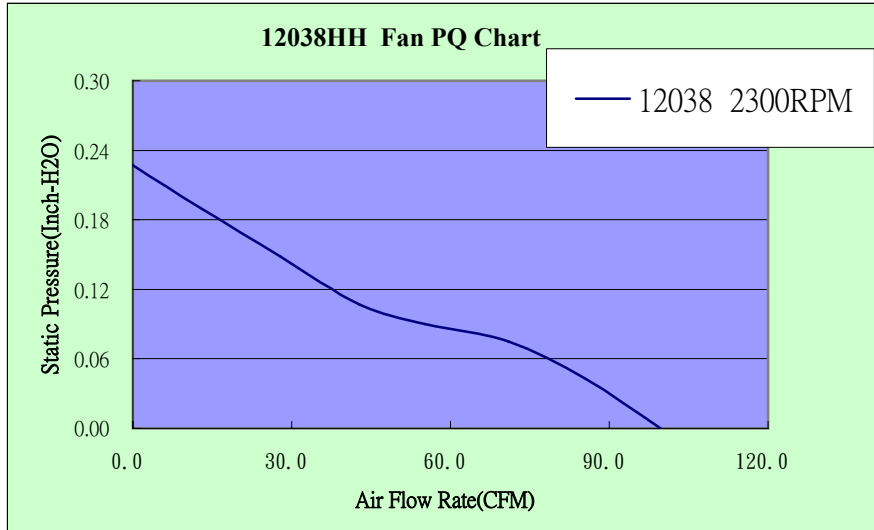
## VI. LABEL MARKING



## VII. OUTLINE DIMENSION



## VIII. P/Q Performance



	Q(cfm)	Ps(InchH2o)
1	0.000	0.227
2	12.874	0.190
3	27.989	0.148
4	42.665	0.107
5	55.210	0.090
6	70.942	0.075
7	85.445	0.043
8	99.629	0.000