



## SPECIFICATION FOR APPROVAL

**CUSTOMER: CHIP**

**EVERCOOL MODEL NO: EC8025HH12B**

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**DESCRIPTION: DC12V FAN**

APPROVED BY (AUTHORISED)	APPROVED
	Alex
	CHECKED
	Xiongwei
	DRAWN
	Chenjie
	SALES
	Richard

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

SPEC NO	ISSUE DATE	EDITION	REVISED DATE
20230221G01	2023/2/21	A0(F2)	2023/2/21

THE PRODUCTION ACCORD WITH EUROPE UNION ROHS STANDARD

**EVERCOOL THERMAL CO., LTD**

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## I. GENERAL SPECIFICATION

Item	Specification
1.Part NO.	EC8025HH12B
2.Outline Dimension	80*80*25
3.Rated Voltage	12 VDC
4.Starting Voltage	7 VDC
5.Operating Voltage Range	7 VDC~ 13.8 VDC
6.Rated Current*	0.28 A
7.Rated Power Consumption*	3.36 W
8.Rated Speed*	3500 RPM $\pm$ 15%
9.Max. Airflow**	42.83 CFM(ft <sup>3</sup> /min)
10.Max. Static Pressure**	0.18 In-H <sub>2</sub> O
11.Noise Level***	<35 dB(A)
12.Life Expectancy	50000 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.

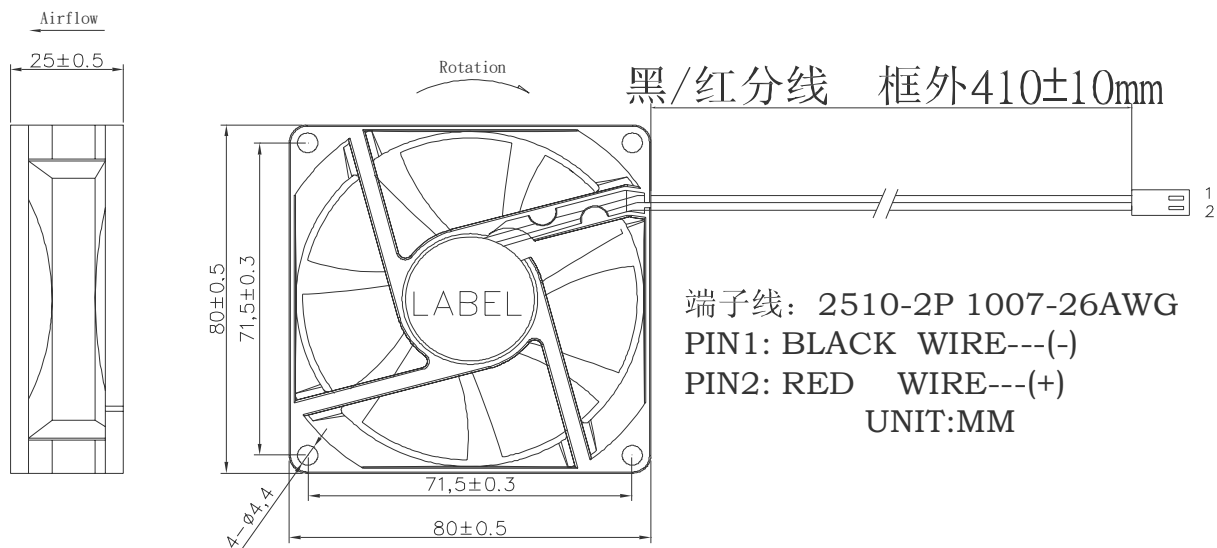
## V. DROPPING TEST

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.

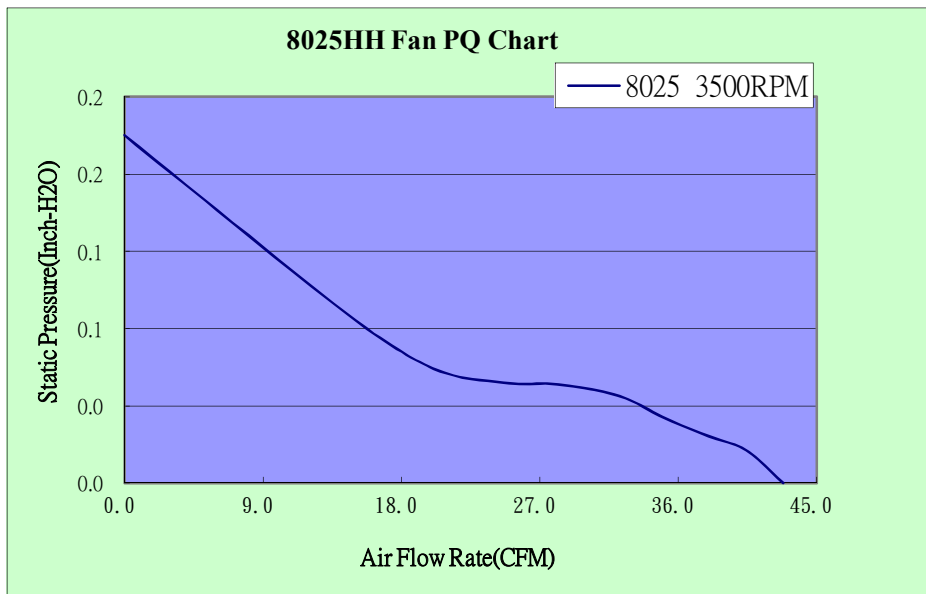
## VI. LABEL MARKING



## VII. OUTLINE DIMENSION



## VIII.P/Q Performance



	Q(cfm)	Ps(InchH2o)
1	0.000	0.180
2	14.906	0.085
3	20.177	0.059
4	24.647	0.052
5	28.254	0.051
6	32.211	0.045
7	35.018	0.034
8	37.709	0.025
9	40.428	0.017
10	42.829	0.000