

SPECIFICATION FOR APPROVAL

CUSTOMER: Chip

EVERCOOL MODEL NO: EC6020H12S

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DESCRIPTION: DC12V FAN

APPROVED BY	APPROVED
(AUTHORISED)	Alex
	CHECKED
	Xiongwei
	DRAWN
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	SALES
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^{*} Please confirm your acceptance by return fax or mail.

SPEC NO	ISSUE DATE	EDITION	REVISED DATE
20170411A03	2017/4/11	A0	2017/4/11

THE PRODUCTION ACCORD WITH EUROPE UNION ROHS STANDARD

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I. GENERAL SPECIFICATION

Item		Specification		
1.Part NO.		EC6020H12S		
2.Outline Dimension		60*60*20		
3.Rated Voltage		12 VDC		
4.Starting Voltage		7	VDC	
5.Operating Voltage Range	7	VDC~	13.8 VDC	
6.Rated Current*		0.21	A(Max)	
7.Rated Power Consumption*		2.52	W	
8.Rated Speed*		4500	RPM±15%	
9.Max. Airflow**		21.46	CFM(ft3/min)	
10.Max. Static Pressure**		0.17	In-H2O	
11.Noise Level***		<30	dB(A)	
12.Life Expectancy		25000	hrs at 25℃	
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 $^{\circ}$ 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-anichoic 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 Delevity Duetestien	√YES	Be capable of endurance when Vcc		
1.Polarity Protection	NO	& GRD are exchanged		
2.Auto restart	YES			
	√NO	Locked motor protection		
3.Insulation Resistance		$10M\Omega/b/w$ 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	1	Specification				
1.Materials of Frame 2.Materials of Fan Blade 3.Bobbin						
		Thermoplastic PBT of UL 94V-0(BK)				
4.Bearing		1 ball & 1 sleeve bearing				
		Sleeve bearing				
		EL bearing				
5.Lead wire		Red (+)	UL#	1007	26	AWG
	<u> </u>	Black (-)	UL#	1007	26	AWG
6.Connector		2510 2P				

IV. ENVIRONMENT SPECIFICATION

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

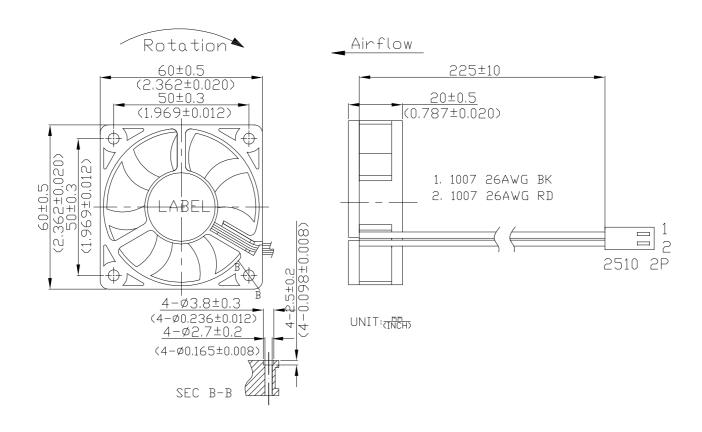
V. DROPPING TEST

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.

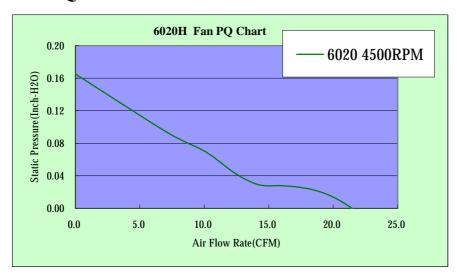
VI. LABEL MARKING



VII. OUTLINE DIMENSION



VIII. P/Q Performance



	Q(cfm)	Ps(InchH2o)
1	0.000	0.165
2	7.103	0.094
3	10.124	0.069
4	12.423	0.043
5	14.234	0.029
6	15.965	0.028
7	17.489	0.026
8	18.898	0.021
9	20.219	0.012
10	21.458	0.000