



## SPECIFICATION FOR APPROVAL

**CUSTOMER:** platan

**EVERCOOL MODEL NO:** EC2008HH05C

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**DESCRIPTION:** DC5V FAN

|                                     |                 |
|-------------------------------------|-----------------|
| <b>APPROVED BY<br/>(AUTHORISED)</b> | <b>APPROVED</b> |
|                                     | <b>Alex</b>     |
|                                     | <b>CHECKED</b>  |
|                                     | <b>Xiongwei</b> |
|                                     | <b>DRAWN</b>    |
|                                     | <b>Chenjie</b>  |
|                                     | <b>SALES</b>    |
|                                     | <b>Serene</b>   |

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

| SPEC NO     | ISSUE DATE | EDITION | REVISED DATE |
|-------------|------------|---------|--------------|
| 20231221A17 | 2023/12/21 | A0      | 2023/12/21   |

THE PRODUCTION ACCORD WITH EUROPE UNION ROHS STANDARD

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# I. GENERAL SPECIFICATION

| Item                       | Specification     |
|----------------------------|-------------------|
| 1.Part NO.                 | EC2008HH05C       |
| 2.Outline Dimension        | 20*20*8           |
| 3.Rated Voltage            | 5 VDC             |
| 4.Starting Voltage         | 4 VDC             |
| 5.Operating Voltage Range  | 4 VDC~ 6 VDC      |
| 6.Rated Current*           | 0.24 A            |
| 7.Rated Power Consumption* | 1.2 W             |
| 8.Rated Speed*             | 19000 RPM±30%     |
| 9.Max. Airflow**           | 1.63 CFM(ft3/min) |
| 10.Max. Static Pressure**  | 0.18 In-H2O       |
| 11.Noise Level***          | <33.1 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

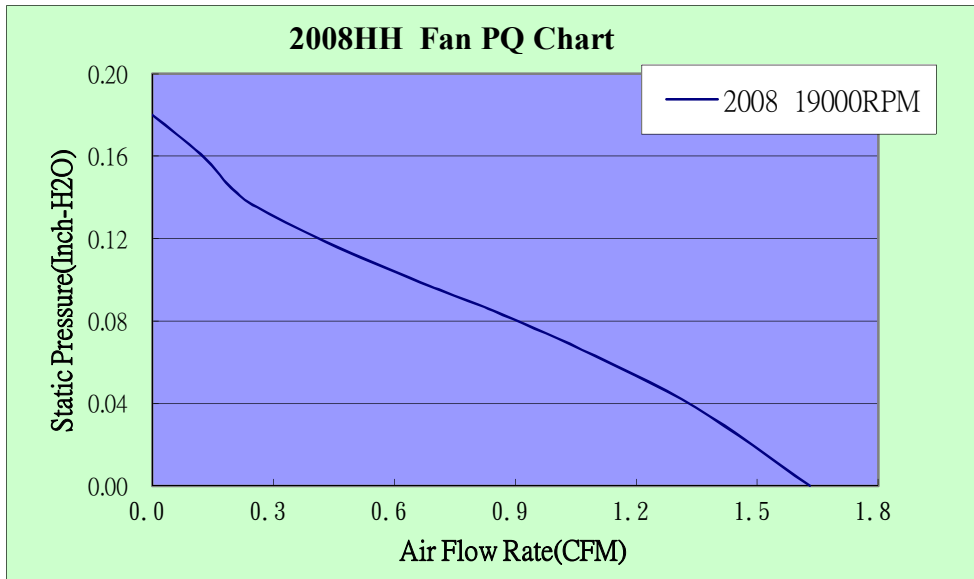
| Item                     |   | Specification                     |     |      |    |     |
|--------------------------|---|-----------------------------------|-----|------|----|-----|
| 1.Materials of Frame     |   | Thermoplastic PBT of UL 94V-0(BK) |     |      |    |     |
| 2.Materials of Fan Blade |   |                                   |     |      |    |     |
| 3.Bobbin                 |   |                                   |     |      |    |     |
| 4.Bearing                | ✓ | Uni Ball bearing                  |     |      |    |     |
|                          |   | Dual ball bearing                 |     |      |    |     |
|                          |   | 1 ball & 1 sleeve bearing         |     |      |    |     |
|                          |   | Sleeve bearing                    |     |      |    |     |
|                          |   | EL bearing                        |     |      |    |     |
| 5.Lead wire              | ✓ | Red (+)                           | UL# | 1571 | 28 | AWG |
|                          | ✓ | Black (-)                         | UL# | 1571 | 28 | 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. |



## VIII. P/Q Performance



|    | Q(cfm) | Ps(InchH <sub>2</sub> o) |
|----|--------|--------------------------|
| 1  | 0.000  | 0.180                    |
| 2  | 0.120  | 0.161                    |
| 3  | 0.210  | 0.142                    |
| 4  | 0.300  | 0.131                    |
| 5  | 0.480  | 0.114                    |
| 6  | 0.688  | 0.097                    |
| 7  | 0.845  | 0.085                    |
| 8  | 1.066  | 0.066                    |
| 9  | 1.348  | 0.038                    |
| 10 | 1.630  | 0.000                    |