

# A6

2U Active Air Cooler

**PRODUCT SPECIFICATIONS**



## ***NEW PRODUCT SPEC SHEET***

### **Model Number: A6**

- Recommend for AMD® Opteron™ 6000 series, Socket G34 1974
- Active Blow-Down Cooler for 2U Server & up

### **Overall Specification:**

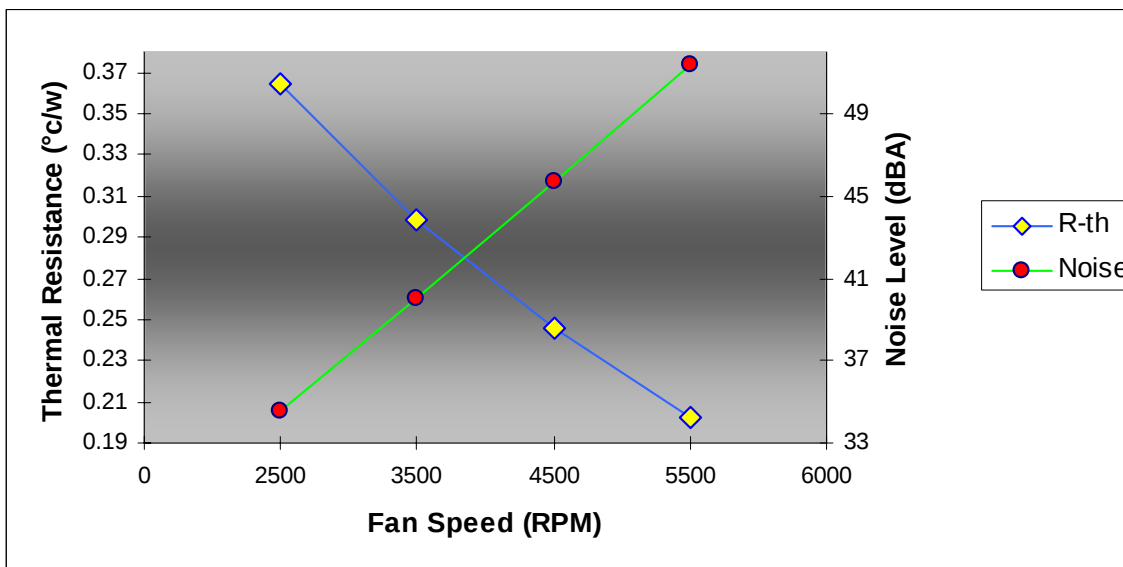
- Dimension: 114.0 x 75.5 x 66.7 mm
- Weight: 460 +/- 5g
- Mounting Pitch 4.1" (104.1 mm)
- Material: Copper 1100 Base, Aluminum Stacked Fins with Heatpipes Embedded
- 7720 Cooling Fan with PWM Function
- Safety Fan Guard is included
- Captive with Screw-on Mounting
- Thermal Grease Pre-printed with Shin Etsu 7762
- Support CPU Power 115 Watts Heat Dissipation

### **Fan Specification:**

- Dimension: 77.0 x 77.0 x 20.0 mm
- Bearing: Double Ball
- Rated Voltage: 12V
- Rated Speed per PWM Duty:
  - o At Duty Cycle 0~20%: 1000 +/- 10% RPM
  - o At Duty Cycle 50%: 2600 +/- 10% RPM
  - o At Duty Cycle 100%: 5500 Min. / +5% RPM
- Input Power:
  - o At Duty Cycle 0~20%: 0.54 W
  - o At Duty Cycle 50%: 1.68 W
  - o At Duty Cycle 100%: 9.0 W

- Airflow Rate:
  - o At Duty Cycle 0~20%: 8.36 CFM
  - o At Duty Cycle 50%: 25.5 CFM
  - o At Duty Cycle 100%: 53.9 CFM
- Acoustical Noise:
  - o At
  - o Duty Cycle 0~20%: 20.6 dBA
  - o At Duty Cycle 50%: 35.1 dBA
  - o At Duty Cycle 100%: 51.4 dBA
- Air Pressure
  - o At Duty Cycle 0~20%: 0.24 mm-H<sub>2</sub>O
  - o At Duty Cycle 50%: 1.25 mm- H<sub>2</sub>O
  - o At Duty Cycle 100%: 5.59 mm- H<sub>2</sub>O
- Lead Wire Pin Out:
  - o Pin#1-Black(-)
  - o Pin#2- Yellow(+)
  - o Pin#3- Green( Tachometer/ Signal Output)
  - o Pin#4- Blue (PWM)

**Performance Chart, A6 Thermal Resistance / Noise VS. Cooling Fan Speed**



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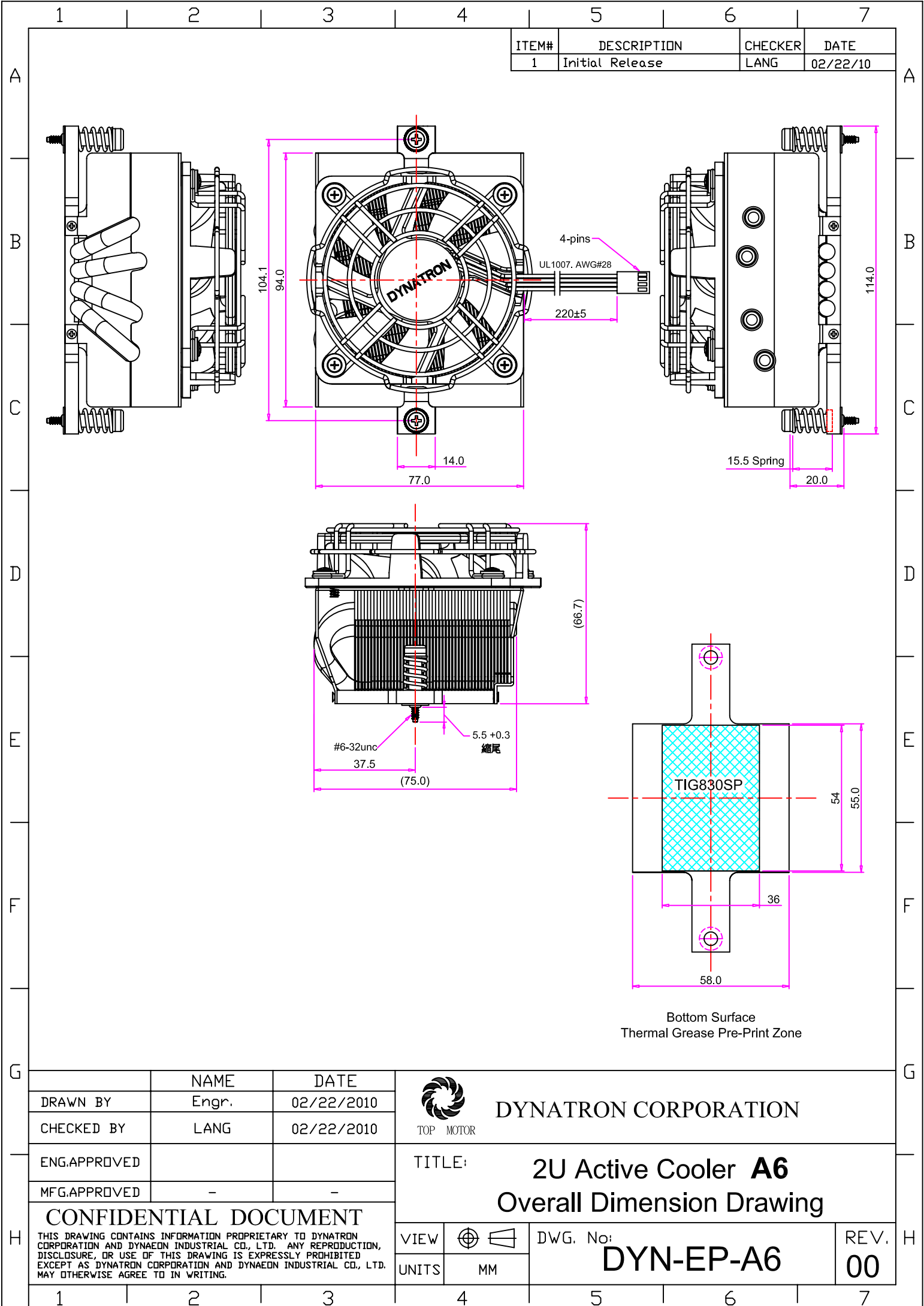
1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE
2. OVERALL DIMENSION : 114.0 x 75.5 x 66.7 mm
3. OVERALL WEIGHT : 460g

This diagram shows the front panel assembly in an exploded view. The front panel is shown with its internal components, including the speaker grille and the internal wiring. A cable is shown connected to the front panel, and another cable is shown connected to the internal components. The diagram illustrates the relationship between the front panel, the cable, and the internal components of the device.

|       |                              |             |      |
|-------|------------------------------|-------------|------|
| 11    | E-Clip                       | Steel       | 2    |
| 10    | Thermal Grease, Pre-Print    | TIG830SP    | 1    |
| 9     | Screw, Fan Cover to Base     | Steel       | 4    |
| 8     | Heatsink, Al Fin w/ Heatpipe | Copper Base | 2    |
| 7     | Spring, Ø1.4mm wire          | SUS304      | 1    |
| 6     | Washer                       | Steel       | 2    |
| 5     | Screw, Heatsink              | Steel       | 2    |
| 4     | Cover, Fan                   | Aluminum    | 1    |
| 3     | Fan DF127720BU-PWM, 5500rpm  | Plastic     | 1    |
| 2     | Fan Quadr                    | Steel       | 1    |
| 1     | Screw, Fan Mounting          | Steel       | 4    |
| Item# | Description                  | Material    | QTY. |

|            |            |      |                                                                                                               |
|------------|------------|------|---------------------------------------------------------------------------------------------------------------|
|            | DATE       | NAME | <br>DYNATRON CORPORATION |
| DRAWN      | 02/22/2010 | Engr |                                                                                                               |
| CHECKED    | 02/22/2010 | LANG |                                                                                                               |
| ENG. APPR. |            |      |                                                                                                               |
| MFG. APPR. |            |      |                                                                                                               |
| SA         |            |      |                                                                                                               |
| COMMENTS:  |            |      | TITLE: 2U Active Cooler <b>A6</b><br>BOM & Exploded Assembly Drawing<br><br>DWG. No: <b>DYN-EP-A6</b>         |
|            |            |      | REV: 00                                                                                                       |



| ITEM# | DESCRIPTION     | CHECKER | DATE     |
|-------|-----------------|---------|----------|
| 1     | Initial Release | LANG    | 02/22/10 |

|               |       |            |
|---------------|-------|------------|
|               | NAME  | DATE       |
| DRAWN BY      | Engr. | 02/22/2010 |
| CHECKED BY    | LANG  | 02/22/2010 |
| ENG. APPROVED |       |            |
| MFG. APPROVED | -     | -          |

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**DYNATRON CORPORATION**

TITLE: **2U Active Cooler A6**  
**Overall Dimension Drawing**

|       |    |
|-------|----|
| VIEW  |    |
| UNITS | MM |

DWG. No: **DYN-EP-A6**

REV. **00**