

A52

1U Active Air Cooler

PRODUCT SPECIFICATIONS

Specification Version: 07/01/2023

(Specifications are subject to change without notice)

A52 | Socket SP6

Model Number: A52

- Recommend for AMD® CPU as following
 - AMD® EPYC™ Processor, Socket SP6
- Active Air Cooler for 1U Server and Up

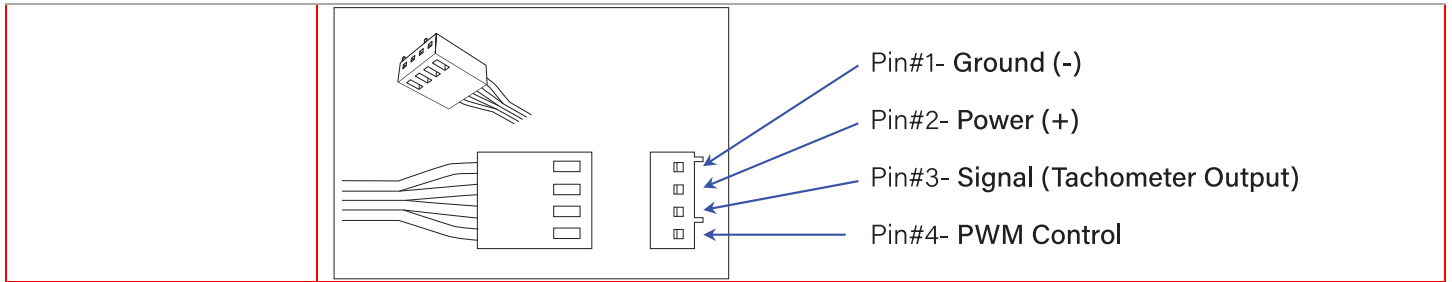
Overall Specification

Dimension	120.0 x 82.0 x 28.6 mm
Weight	500g
Material	Copper 1100 Vapor Chamber and Stacked Fin
Thermal Grease	Shin-Etsu 7762 Pre-Printed
TDP	Up to 140 Watts

Cooling Fan Specification

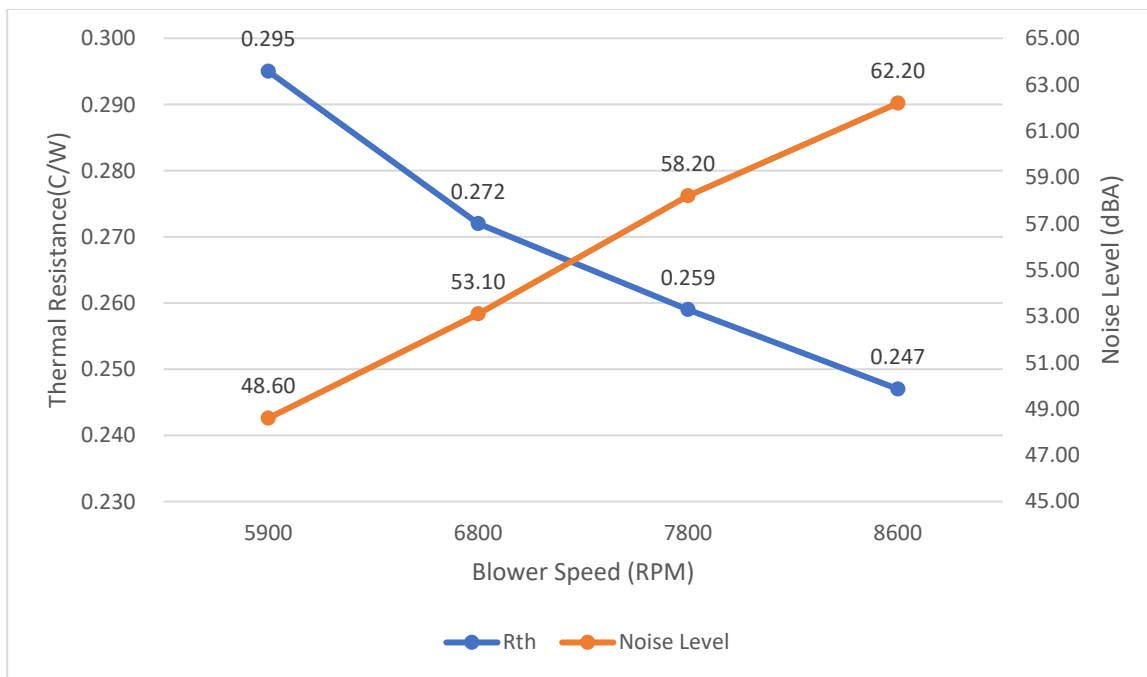
Model Number	DB128013BU-PWMG
Dimension	φ80 x 13 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2000± 200 RPM At Duty Cycle 50%: 4900± 10% RPM At Duty Cycle 100%: 8600±10% RPM
Input Power	At Duty Cycle 0~20%: 1.08 W At Duty Cycle 50%: 4.7 W At Duty Cycle 100%: 23.45 W
Maximum Airflow	At Duty Cycle 0~20%: 5.59 CFM At Duty Cycle 50%: 14.76 CFM At Duty Cycle 100%: 26.25 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 3.69 mm-H2O At Duty Cycle 50%: 25.28 mm-H2O At Duty Cycle 100%: 89.90 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 23.3 dBA At Duty Cycle 50%: 43.5 dBA At Duty Cycle 100%: 62.2 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Black(+) Pin#3- Black(Tachometer/ Signal Output) Pin#4- Black (PWM)

A52 | Socket SP6



Performance Chart: Passive Cooler A52 Thermal Resistance

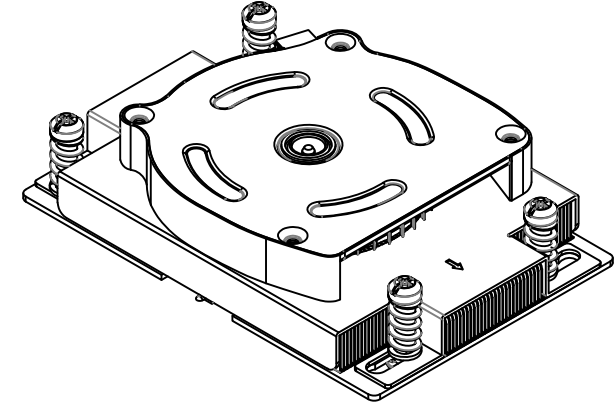
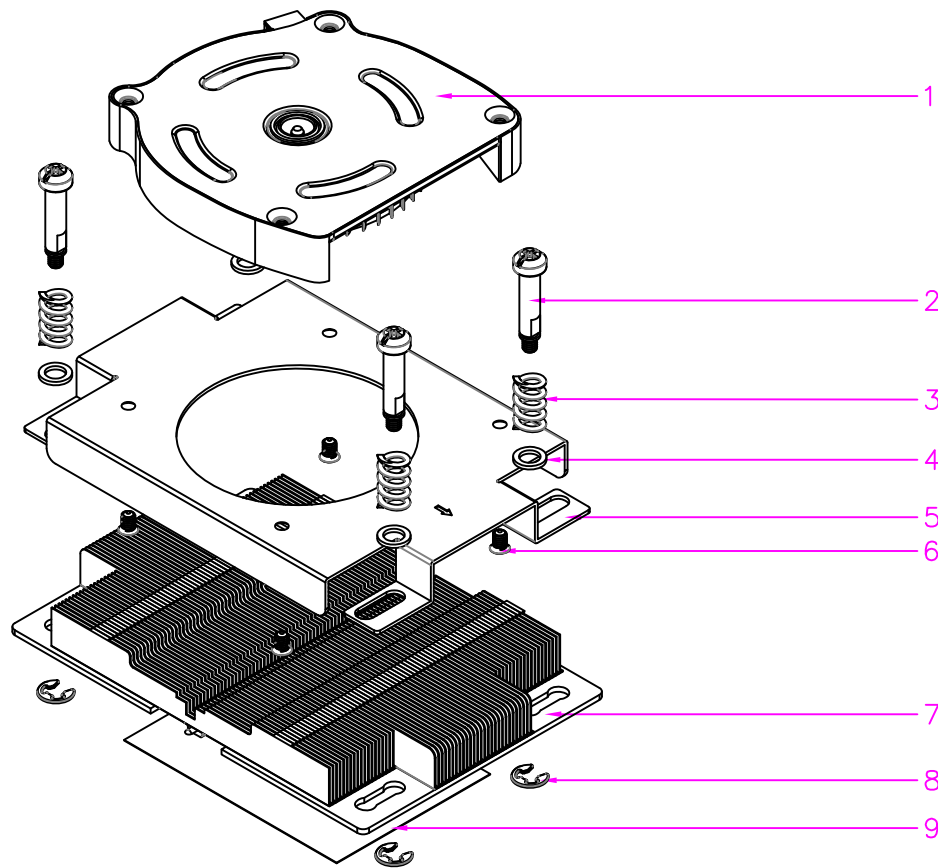
Thermal Resistance vs. Blower Speed



CONFIDENTIAL DOCUMENT

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO DYNATRON CORPORATION AND DYNAEON INDUSTRIAL CO., LTD.
ANY REPRODUCTION, DISCLOSURE, OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT AS DYNATRON
CORPORATION AND DYNAEON INDUSTRIAL CO., LTD. MAY OTHERWISE AGREE TO IN WRITING.

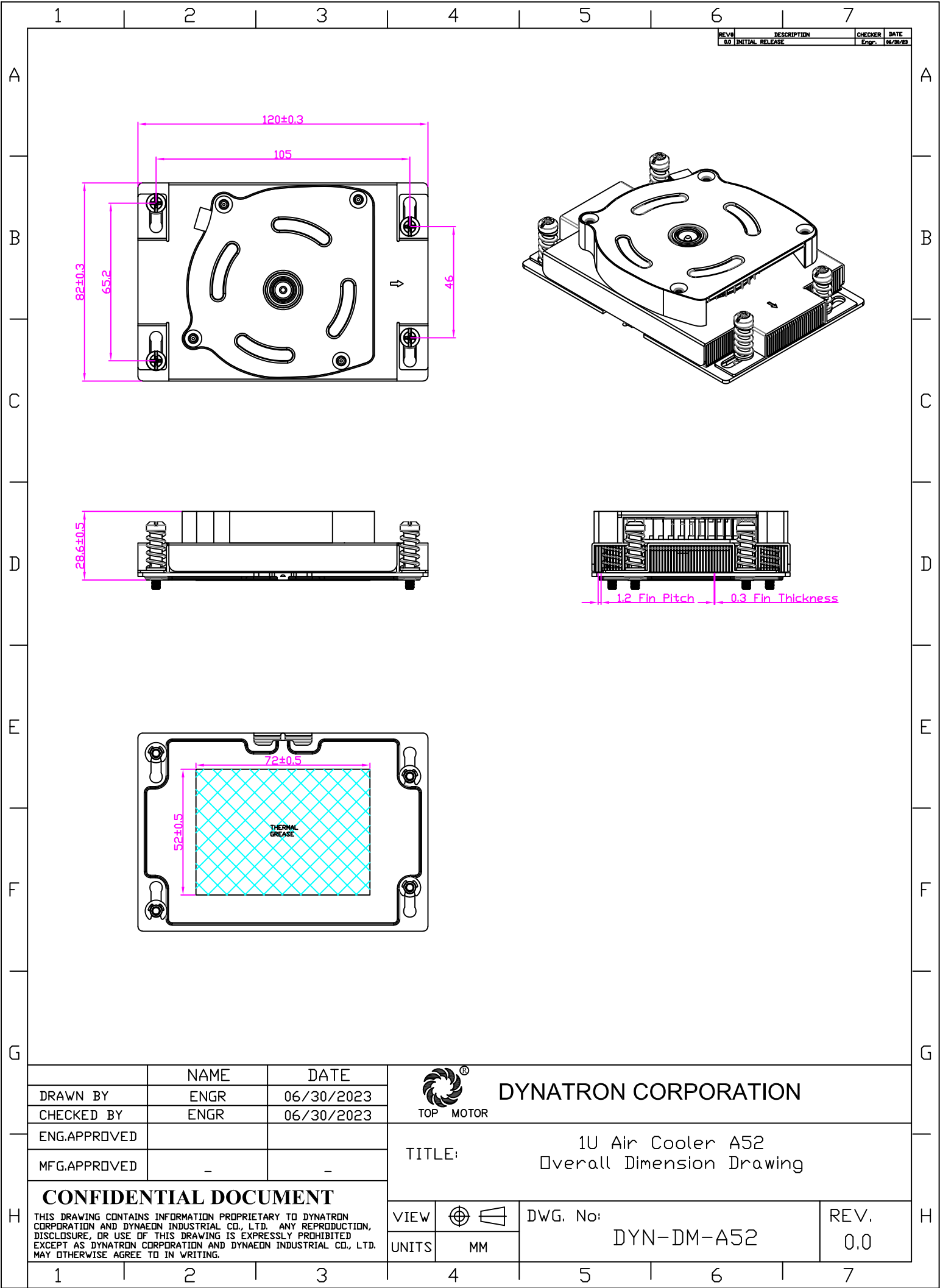
REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	06/30/23
0.1	THERMAL GREASE SIZE UPDATE	Engr.	07/01/23



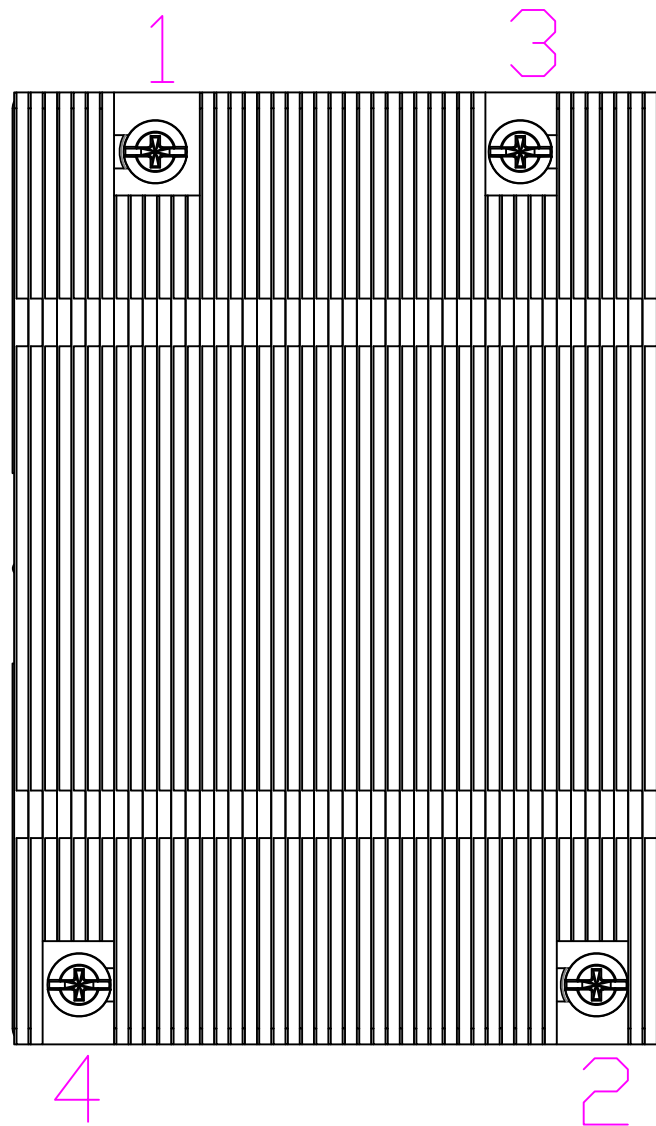
9	THERMAL GREASE	SHIN-ETSU X-23-7762	1
8	HEATSINK CLIP (51900010)	STEEL	4
7	HEATSINK (50806120)	COPPER VC BASE, COPPER FINS	1
6	BLOWER BRACKET SCREW (50902190)	STEEL	4
5	BLOWER COVER (51301720)	SPCC	1
4	HEATSINK WASHER (52000030)	STEEL	4
3	HEATSINK SPRING (50600890)	SWP	4
2	HEATSINK SCREW (50904380)	STEEL	4
1	BLOWER (LE08130004, 8600RPM)	PPS+Galvanized Sheet	1
ITEM #	DESCRIPTION	MATERIAL	QTY.
DATE 07/01/23 NAME Engr. TOP MOTOR DYNATRON CORPORATION DRAWN 07/01/23 Engr. CHECKED 07/01/23 Engr. ENG. APPR. MFG. APPR. Q.A. COMMENTS			
TITLE: 1U Air Cooler A52 BOM & Exploded Assembly Drawing			
DWG. No: DYN-EP-A52			REV 0.1

NOTES:

1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE



SOCKET SP6 COOLER INSTALLATION INSTRUCTION



HEATSINK ASSEMBLY
ORDER 1,2,3,4

HEATSINK DISASSEMBLY
ORDER 4,3,2,1

TORQUE = 12.5 - 15.1 KG -CM

ALL SCREWS SHOULD BE
TIGHTENED/RELEASED EVENLY, AVOIDING
TIGHTENING/RELEASING ANY SCREWS TO THE
BOTTOM/TOP AT ONCE

Publication History:

07/01/2023: Thermal Grease Size Update

06/30/2022: Initial Release

(Specifications are subject to change without notice)