



SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER :
MODEL NO : RA000-003999DN
DESCRIPTION : LED Cooling Module
DIMENSIONS : $\phi 86 \times 15$ mm
SUNON SPEC. NO. : C01000800G-00
CUSTOMER APPROVAL NO. :
APPROVED BY CUSTOMER :
(AUTHORIZED)

DRAWN Alice-Chang 3/8	CHECKED Dani	APPROVED Jacky	SPEC. NO	C01000800G-00
			ISSUED DATE	03. 08. 2012
			EDITION	0
			REVISION DATE	

建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

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SPECIFICATION FOR APPROVAL

CHECK LIST

1. SCOPE -----Page 2
2. SPECIFICATIONS ----- Page 3
3. DIMENSION ----- Page 4
4. NOTES ----- Page 5
5. Declaration of RoHS ----- Page 6

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. 建準電機工業股份有限公司	PAGE	1 OF 6
	SPEC. NO.	C01000800G-00
	ISSUED DATE	03. 08. 2012
	EDITION	0
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1.SCOPE

This compact LED cooling module is designed for heat dissipation of LED lamp.

The following specification outlines the performance of this module for LED lighting system

**SUNONWEALTH ELECTRIC
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PAGE	2 OF 6
SPEC. NO.	C01000800G-00
ISSUED DATE	03. 08. 2012
EDITION	0
REVISION DATE	

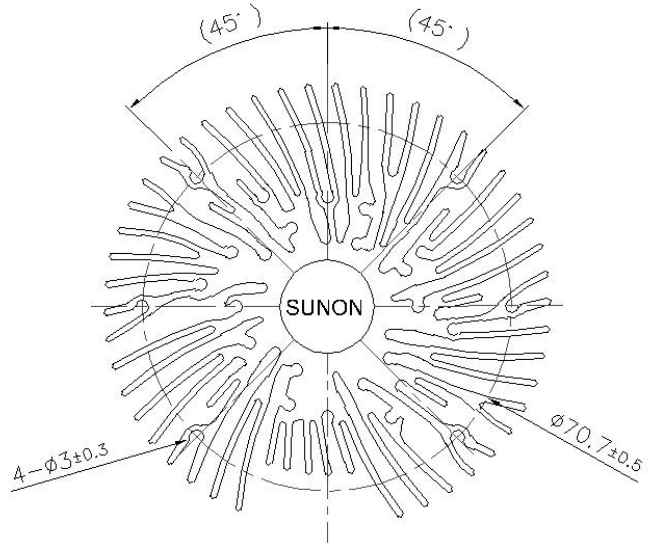
MODEL : RA000-003999DN

2.SPECIFICATIONS

1. Application	Heat 8 W
2. Heat Sink Dimension	∅ 86 x 15 mm
3. Heat Sink Material	AL6063
4. Cooling Method	N/A
5. Fan Speed (with Heat Sink)	N/A
6. Rated Voltage	N/A
7. Rated Current	N/A
8. Power Consumption	N/A
9. Fan Bearing System	N/A
10. Cooling Module Noise @ 1M	N/A
11. Operating Voltage Range	N/A
12. Operating Temperature	-10 to + 70 deg. C
13. Storage Temperature	-40 to + 70 deg. C
14. Weight	89g
15. Thermal resistance	3.68°C /W (based on Fortimo SLM 1100 lm)
16. Tolerance	N/A
17. Life Expectancy (MTTF)	N/A

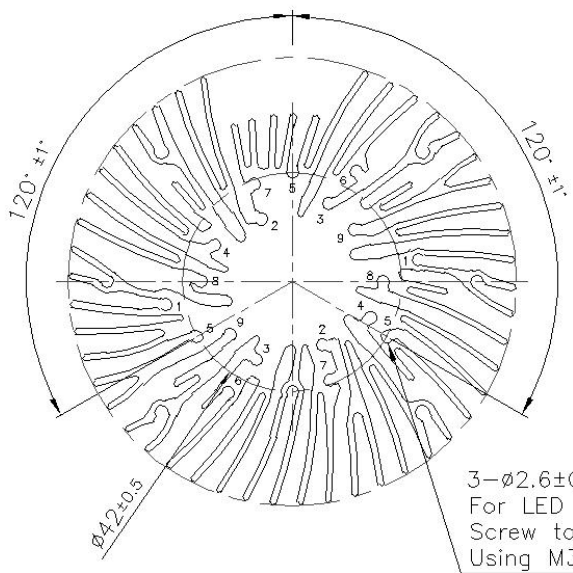
SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. 建準電機工業股份有限公司	PAGE	3 OF 6
	SPEC. NO.	C01000800G-00
	ISSUED DATE	03. 08. 2012
	EDITION	0
	REVISION DATE	

3.DIMENSION



AIR FLOW

LED Module
 Assembly direction of customer's LED Module



3-φ2.6±0.3 - Number 5
 For LED Module Assembly
 Screw torque max 12kgf.cm
 Using M3 Tapping Screw

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PAGE	4 OF 6
SPEC. NO.	C01000800G-00
ISSUED DATE	03. 08. 2012
EDITION	0
REVISION DATE	



Notes

I. SPECIFICATION MODIFICATION

1. **SUNON offers engineering assistance on module installation and cooling system design.**
2. **All changes, modifications and/or revisions to the specifications, if any, are incorporated in the attached specifications.**
3. **No changes, modifications and/or revisions to these specifications are effective absent agreement, by both Sunon and the customer, in writing.**
4. **This module will be shipped in accordance with the attached specification unless SUNON and the customer have agreed otherwise, in writing, as specified in Paragraph 3, above.**

II. OTHER

1. **DO NOT operate this module in proximity to hazardous materials such as organic silicon, cyanogens, formalin, phenol, or corrosive gas environments including, but not limited to, H₂S, SO₂, NO₂, or Cl₂.**
2. **Unless otherwise noted, all testing of this module is conducted at 25°C ambient temperature and sixty-five percent (65%) relative humidity.**
3. **DO NOT store this module in an environment with high humidity. This module must be stored in accordance with the attached specifications regarding storage temperature. If this module is stored for more than 6 months, SUNON recommends functional testing before using.**
4. **SUNON reserves the right to use components from multiple sources at its discretion. The use of components from other sources will not affect the specifications as described herein.**

VI. WARRANTY

This module is warranted against all defects which are proved to be fault in our workmanship and material for one year from the date of our delivery. The sole responsibility under the warranty shall be limited to the repair of the module or the replacement thereof, at SUNON's sole discretion. SUNON will not be responsible for the failures of its modules due to improper handling, misuse or the failure to follow specifications or instructions for use. In the event of warranty claim, the customer shall immediately notify SUNON for verification. SUNON will not be responsible for any consequential damage to the customer's equipment as a result of any modules proven to be defective.

**SUNONWEALTH ELECTRIC
MACHINE INDUSTRY CO., LTD.
建準電機工業股份有限公司**

PAGE	5 OF 6
SPEC. NO.	C01000800G-00
ISSUED DATE	03. 08. 2012
EDITION	0
REVISION DATE	

SUNON



Declaration of RoHS

Control declaration of environment-related substances/materials

1. In accordance with the Restriction of Hazardous Substances (RoHS) Directive, Sunon product models have complied with law and discipline not to employ the forbidden substances, and restrict the allowable concentration of some limited substances deliberately in our components.

No	Substance		Criteria
1	CFCs & HCFCs (ozone depleting substances)		Forbidden
2	Chlorinated Organic Solvent		Forbidden
3	Lead and its compounds	Plastic (Frame, Impeller, wire harness, etc.)	<100ppm
		Solder	<1000ppm
		Steel alloy	<3500ppm
		Aluminium alloy	<4000ppm
		Copper alloy	<4wt%
4	Cadmium and its compounds	Solder	<20ppm
		Parts composed of metals containing zinc (e.g. brass, zinc for die casting)	<100ppm
		Plastic	<5ppm
5	PBBs and PBDEs		Forbidden
6	PCB and PCT		Forbidden
7	CP, Short-chain Chlorinated paraffins C10-13, Cl ≥48 wt%		Forbidden
8	Mirex		Forbidden
9	PCN		Forbidden
10	Hexavalent Chromium compounds		<100ppm
11	Mercury and its compounds		Forbidden
12	Asbestos		Forbidden
13	Organic Tin compounds		Forbidden
14	Azo compounds		Forbidden
15	TBBP-A in external case plastic parts of products (PCB is exempted)		<1000ppm
16	Nickel in external case parts, which are likely to result in prolonged skin exposure		<1000ppm

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. 建準電機工業股份有限公司	PAGE	6 OF 6
	SPEC. NO.	C01000800G-00
	ISSUED DATE	03. 08. 2012
	EDITION	0
	REVISION DATE	