SUNON

SPECIFICATION FOR APPROVAL

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DRAWN	CHECKED	APPROVED	SPEC. NO	C01000680G-00
(AUT	HORIZED)			
CUS	TOMER	:		
	ROVAL NO. ROVED BY			
	TOMER ROVAL NO.	:		
SUN	ION SPEC. NO). : C010)00680G-00	
DIN	IENSIONS	: 85X8	85X20 mm	
DES	CRIPTION	: LED	Cooling Mod	ule
MO	DEL NO	: RAO	00-002999DN	
CUS	STOMER	:		

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Alice-			ISSUED DATE	01.16.2012	
	D	T. J.	EDITION	0	
Chang	Dani	Jacky	REVISION DATE		
1/16			KEVISION DATE		
建準電機工業股份	}有限公司				
SUNONWEALTH	I ELECTRIC I	MACHINE INI	OUSTRY CO., L	TD.	
NO. 30, LN. 296, 2	XINYA RD., QIAN	ZHEN DIST.,	TEL:886-7-813588	8	
KAOHSIUNG CITY 80673, TAIWAN (R.O.C) FAX:886-7-8230505/8230606/8231010					
URL:http://www.sunon.com E-mail: sunon@email.sunon.com.tw					

₩^{工業}® ₩ 研發部[™] 2012.01.17 發行章

SPECIFICATION FOR APPROVAL

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SUNONWEALTH ELECTRIC	SPEC. NO.	C010006	580G-00	
MACHINE INDUSTRY CO., LTD.	ISSUED DATE	01.16.20	12 派工業 (家)	
建準電機工業股份有限公司	EDITION	0	爱研發部	
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1.SCOPE

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

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

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建準電機工業股份有限公司	EDITION	0 微研發部
	REVISION DATE	2012.01.11
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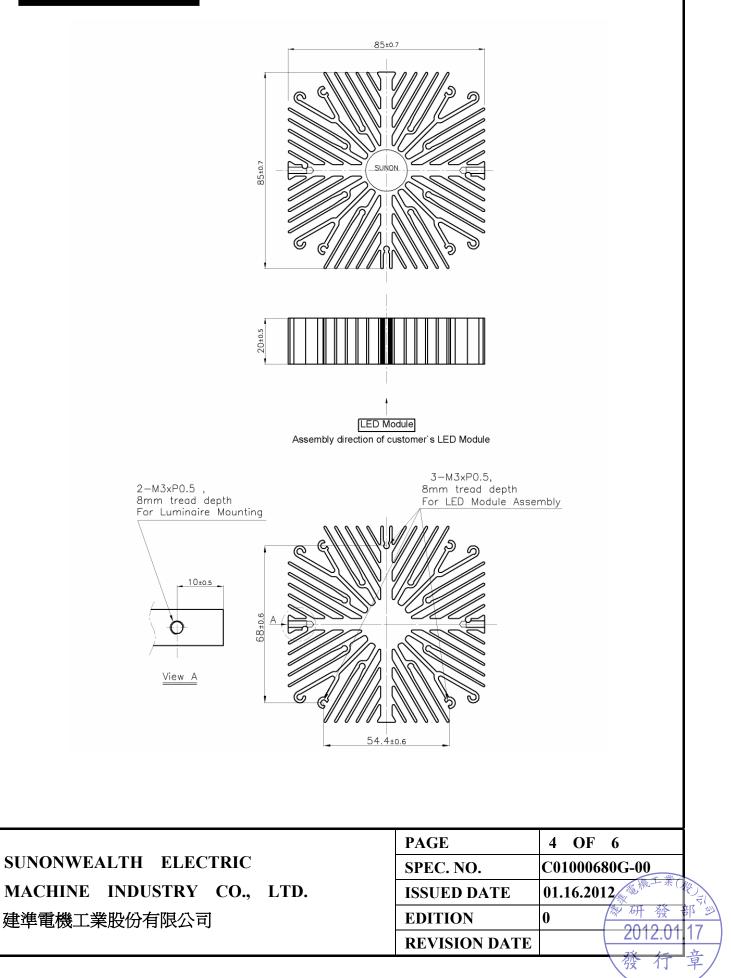
MODEL : RA000-002999DN

2.SPECIFICATIONS

Heat 8.5 W
85 X 85 X 20 mm
AL6063
N/A
-10 to + 70 deg. C
-40 to + 70 deg. C
122 g
2.78°C/W(based on Fortimo DLM 1100 lm)
N/A
N/A

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3.DIMENSION



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 specificied 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.

III. 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 module due to improper handing, 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 module proven to be defective.

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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.

1						
No	No Substance					
1	1 CFCs & HCFCs (ozone depleting substances)				Forbidden	
2	Chlorinated Organic Solvent				Forbidden	
		Plastic (Frame, Impeller, wire harness, etc.) Solder		etc.)	<100ppm	
					<1000ppm	
3	Lead and its compounds	Steel alloy			<3500ppm	
		Aluminium alloy			<4000ppm	
		Copper alloy			<4wt%	
		Solder			<20ppm	
4	Cadmium and its compounds	Parts composed of	metals containing zin	ic	<100nnm	
т	Caumum and its compounds	(e.g. brass, zinc for	· die casting)		<100ppm	
		Plastic			<5ppm	
5	PBBs and PBDEs				Forbidden	
6	PCB and PCT				Forbidden	
7	7 CP, Short-chain Chlorinated paraffins C10-13, Cl≥48 wt%				Forbidden	
8	Mirex				Forbidden	
9	PCN				Forbidden	
10	0 Hexavalent Chromium compounds				<100ppm	
11	1 Mercury and its compounds				Forbidden	
12					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	6 Nickel in external case parts, which are likely to result in prolonged skin exposure			re	<1000ppm	
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