SUNON

SPECIFICATION FOR APPROVAL

	MODEL NO DESCRIPTION DIMENSIONS SUNON SPEC. NO. CUSTOMER APPROVAL NO. APPROVED BY CUSTOMER			00-12004				
				 Thermal Module § 85X75 mm				
				000730F-01				
DRAW	N	CHECKED	APPROVED	SPEC. NO	C01000730F-01			
				ISSUED DATE	02. 18. 2012			
Qian		Amy	Eric	EDITION	0			
2/18				REVISION DATE				
建建建设	1774 Marca 2.00	有限公司						
建毕电傚上	業股份	n m A J						
SUNONWE	EALTH	ELECTRIC		DUSTRY CO., L	ГD.			
SUNONWE NO. 30, LN.	EALTH . 296, X	ELECTRIC	NZHEN DIST.,	TEL:886-7-813588	8			
SUNONWE NO. 30, LN.	EALTH . 296, XI NG CIT	ELECTRIC INYA RD., QIAN Y 80673, TAIWA	NZHEN DIST.,	,	8 5/8230606/8231010			

SPECIFICATION FOR APPROVAL

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MACHINE INDUSTRY CO., LTD.	ISSUED DATE	02. 18. 2012
建準電機工業股份有限公司	EDITION	0
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2012.02.20		

MODEL : SA000-12004

1.SPECIFICATIONS

1. Application	Cpu Chipeset 10W				
2. Heat Sink Dimension	imension § 85X75 HF				
3. Heat Sink Material	AL6063(陽	亟黑色)			
4. Cooling Method	N/A				
5. Thermal Grease / PAD	N/A				
6. Fan Dimension	N/A				
7. Fan Speed (with Heat Sink)	N/A				
8. Fan Airflow (with Heat Sink)	N/A				
9. Fan Rating Voltage	N/A				
10. Fan Rating Current (with Heat Sink)	N/A				
11. Fan Power Consumption (with Heat Sink)	N/A				
12. Fan Bearing Type	N/A				
13. Fan Connector	N/A				
14. Cooling Module Noise	N/A				
15. Fan Operating Voltage Range	N/A				
16. Operating Temperature	-10 to $+70$ c	leg. C			
17. Storage Temperature	-40 to + 70 deg. C				
18. Weight	342 g				
19. Life Expectance	N/A				
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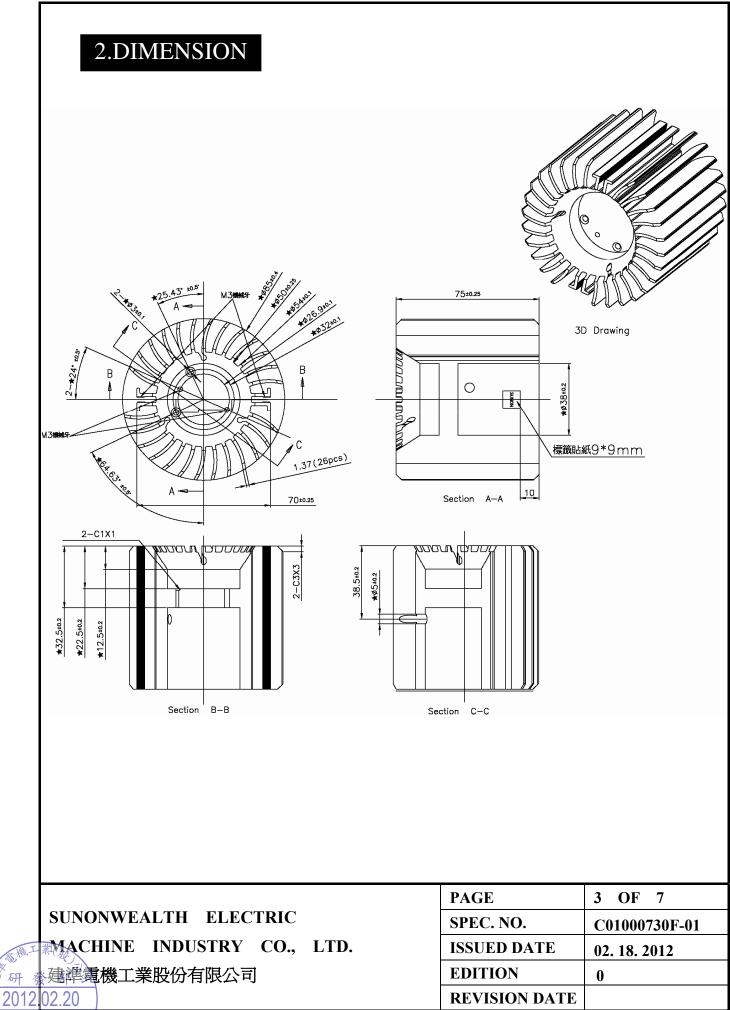
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3. CPK TEST

1. CPK TEST

	: SA000-12004(Seeger KK8575A) No	1	試產日期:2012/2/16 2	T
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	(項目)	總高度	內徑	
	規格中心値	75.000	38.000	
	規格上限	75.250	38.200	
	規格下限	74.750	37.800	
	UNIT (單位)	mm	mm	
	ave	75.144	38.056	
	max	75.226	38.156	
	min	75.109	38.028	_
	1	75.226	38.038	-
	2	75.148	38.048	-
	3	75.153	38.053	-
	4	75.136	38.036	-
	5	75.146	38.054	-
	6	75.156	38.056	4
	7	75.135	38.035	4
	8	75.135	38.065	-
	9	75.147	38.047	-
	10	75.137	38.057	-
	11	75.126	38.036	4
	12	75.146	38.156	4
	13	75.128	38.046	_
	14	75.156	38.056	
	15	75.126	38.046	
	16	75.201	38.101	
	17	75.153	38.053	-
	18	75.135	38.035	
	19	75.135	38.125	-
	20	75.158	38.058	-
	21	75.138	38.038	_
	22	75.125	38.059	-
	23	75.135	38.035	4
	24	75.126	38.126	4
	25	75.125	38.045	4
	26	75.136	38.046	4
	27	75.129	38.029	-
	28	75.109	38.029	4
	29	75.119	38.039	4
	30	75.152	38.052	4
	31	75.209	38.109	4
	32	75.156	38.056	4
	33	75.145	38.045	4
	34	75.118	38.028	4
	35	75.129	38.038	
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3. CPK TEST

品質總合確認書DATA SHEET

機種名:SA000-12004(Seeger KK8575A)

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NO	項目	規格	平均値 avg	標準偏 差 <i>σ</i>	最大 値max	最小 値 min	試料數	工程 cp	能力 cpk	備考
1	總高度	74.750~75.250mm	75.144	0.025	75.226	75.109	35	3.383	1.437	
2	內徑	37.800~38.200mm	38.056	0.030	38.156	38.028	35	2.210	1.587	

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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

2012.02.20

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 Restricted Materials

Control declaration of environment- related substances/ materials

1. In accordance with the Restriction of Hazardous Substances (RoHS) Directive and specific market requirements, Sunon Halogen-Free Product 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
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm
		Solder	<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 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 p	oaraffins C10-13, Cl≥48 wt%	Forbidden
8	Mirex		Forbidden
9	PCN	Forbidden	
10	Hexavalent Chromium compo	<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, v exposure	which are likely to result in prolonged skin	<1000ppm
17	Halogen-Free Product: Brominated/chlorinated flame applicatable item: frame, bobb insulator.	Br<900ppm Cl<900ppm Br+Cl<1500ppm	
18	PAHs and its 16 compounds in	BaP < 20ppm 16 compounds total content < 200ppm	
19	PCB and electroplating materiation 2006/122/EC	ial, PFOS content complianced with	PFOS <1000ppm; coating material PFOS < 1μg/m 2

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