# **SPECIFICATION FOR APPROVAL**

CUST	<b>FOMER</b>	:			
MODEL NO		: SM321-2	: SM321-22001Y		
DESC	CRIPTION	: Therma	: Thermal Module		
DIMENSIONS		: 118X92.	: 118X92.4X29.18 mm		
SUNC	ON SPEC. NO	. : C020066	: C02006680F-02		
CUSTOMER APPROVAL NO. :					
APPROVED BY CUSTOMER :					
(AUTH	ORIZED)				
DRAWN	CHECKED	APPROVED	SPEC. NO	C02006680F-02	
			ISSUED DATE	11. 29. 2023	
Zhangye	Qian	Qian	EDITION	0	
			<b>REVISION DATE</b>		
建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.					
No. 30, LN. 296, XINYA RD., QIANZHEN DIST TEL:886-7-8135888					
KAOHSIUNG CITY 80673, TAIWAN(R. O. C) FAX:886-7-8230505/8230606/8231010					
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# **SPECIFICATION FOR APPROVAL**

## CHECK LIST

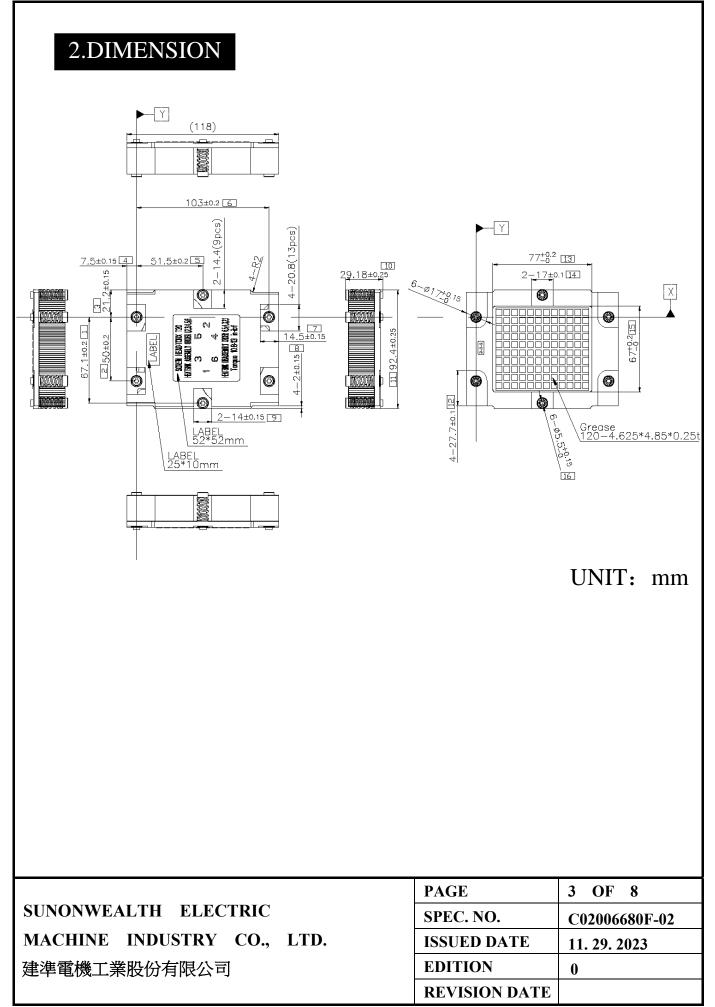
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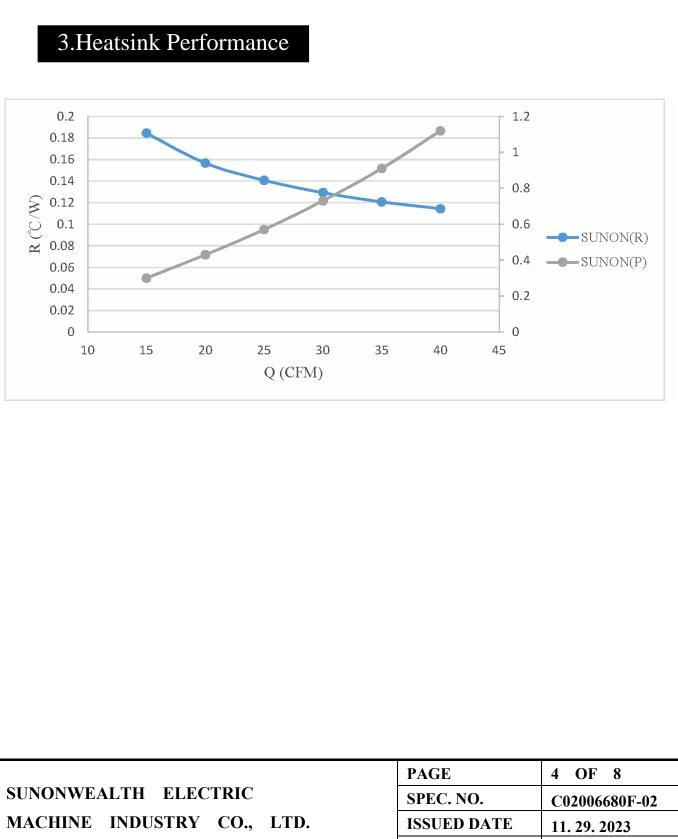
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建準電機工業股份有限公司	EDITION	0
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### **MODEL : SM321-22001Y**

### 1.SPECIFICATIONS

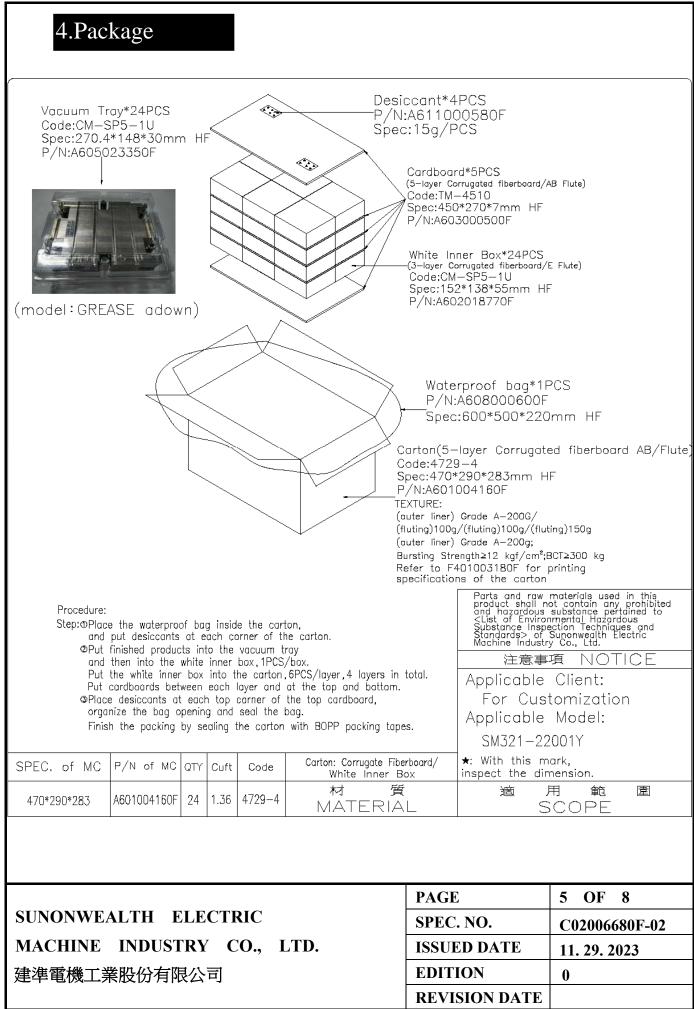
1. Application	CPU=300W		
2. Heat Sink Dimension	118X92.4X4	4.5mm	
3. Heat Sink Material	ADC10+NI		
4. Cooling Method	N/A		
5. Thermal Grease / PAD	X-23-7762		
6. Fan Dimension	N/A		
7. Fan Speed (with Heat Sink)	N/A		
8. Fan Airflow ( with Heat Sink )	N/A		
9. Fan Rating Voltage	N/A		
10. Fan Rating 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		
21. Cooling Module Noise	N/A		
15. Fan Operating Voltage Range	N/A		
16. Operating Temperature	-10 to + 70 deg. C		
17. Storage Temperature	-40 to + 70 deg. C		
18. Weight	340 g		
19. Life Expectance	N/A		
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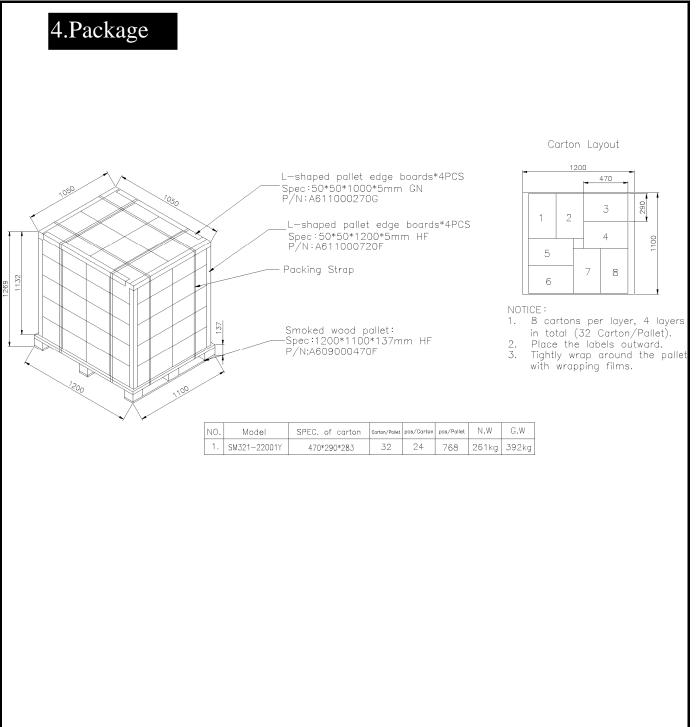




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# Notes

#### 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 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, H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub>, or Cl<sub>2</sub>.
- 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 Restricted Materials**

Control declaration of environment- related substances/ materials

1. In accordance with the Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU 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 d	epleting substances)		Forbidden
2	Chlorinated Organic Solvent			Forbidden
_		Plastic (Frame, Impeller, wir	re harness, etc.)	<100ppm
		Solder		<1000ppm
3	Lead and its compounds	Steel alloy		<3500ppm
		Aluminium alloy		<4000ppm
		Copper alloy		<4wt%
	Cadmium and its	Solder Parts composed of metals co	ntaining zinc	<20ppm
4	compounds	(e.g. brass, zinc for die castin		<100ppm
	••••• <b>p</b> • ••••	Plastic	8/	<5ppm
5	<b>PBBs and PBDEs</b>			Forbidden
6	PCB and PCT			Forbidden
7	CP, Short-chain Chlorina	ted paraffins C10-13, Cl≥48 v	vt%	Forbidden
8	Mirex			Forbidden
9	PCN			Forbidden
10	Hexavalent Chromium co	mpounds		<100ppm
11				Forbidden
12				Forbidden
13				Forbidden
21				Forbidden
15				<1000ppm
16	6 Nickel in external case parts, which are likely to result in prolonged skin exposure			e <1000ppm
17	Hexabromocyclododecane (HBCDD)			<1000ppm
18	•			<1000ppm
19	Benzyl butyl Phthalate (BBP)			<1000ppm
20				<1000ppm
21				<1000ppm
	Brominated/chlorinated f	lame retardants (other than P	BBs or PBDEs),	Br<900ppm
22	applicatable item: frame,	bobbin, impeller, lear wire, co	onnector, mylar	Cl<900ppm
	insulator.			Br+Cl<1500ppm
22	22 DAlls and its 16 compounds in unusual contact material		BaP < 20ppm	
23	23 PAHs and its 16 compounds in unusual contact material			Total <200ppm
	BCB and electronicing motorial DEOS content complianced with			PFOS <u>≤</u> 1000ppm;
24	24 PCB and electroplating material, PFOS content complianced with 2006/122/EC			coating material
	2006/122/EC			<b>PFOS</b> $\leq 1 \mu g/m^2$
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