# SPECIFICATION FOR APPROVAL

CUSTOMER		: SU	: SUNON			
MODEL NO		: SN	: SM320-21001Y			
DESCRIPTION		: Th	: Thermal Module			
DIMENSIONS		: 11	: 118X78X30.4 mm			
SUNON SPEC. NO. : C02006390F-01						
CUSTOMER APPROVAL NO. :						
APPROVED BY CUSTOMER : (AUTHORIZED)						
DRAWN	CHECKED	APPR	OVED	SPEC. NO	C02006390F-01	
				ISSUED DATE	02. 01. 2023	
Sharon	Qian	Jor	·dan	EDITION	3	
				<b>REVISION DATE</b>	02. 01. 2023	
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						
URL:http://www.SUNON.com E-mail:SUNON@email.SUNON.com.tw						

# **SPECIFICATION FOR APPROVAL**

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	<b>REVISION DATE</b>	02. 01. 2023	

# **MODEL : SM320-21001Y**

# 1.SPECIFICATIONS

1. Application	205W			
2. Heat Sink Dimension	118X78X7.5mm			
3. Heat Sink Material	ADC10			
4. Cooling Method	N/A			
5. Thermal Grease / PAD	X-23-7921-:	X-23-7921-5		
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 )	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 +		deg. C		
18. Weight	265 g			
19. Life Expectance	N/A			
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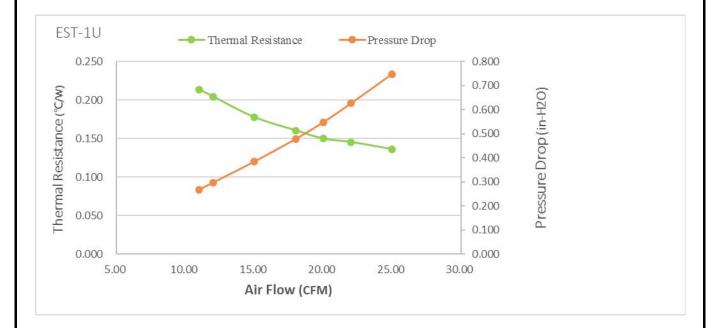
#### 2.DIMENSION 75±0.1 Label sticker <u>68\*68mm</u> 1 118±0.1 9 3 18±0.1 $\overline{\mathbf{n}}$ 82±0.1 22. T = 0.313 pitch=1.63 p 🕲 $\bigcirc$ Assembly instructions: 1. Move All 4 Wires to Locked Position 2. Torque 4 Nuts to 6-12in-LB ÷ ¢ -® 14 78±0.1 5±0.1 6 68±0.3 LABEL $\bigcirc$ 20 ′⊕**℃** ≎ ┙⊕ Ĵ ₽© َى] 4 ©ď Label sticker 15\_68±0.3 (25.25)20\*9mm 2.4.7±0.5 5±0.2 (30.4)Ķ DO ١Ū 9 78.5±0.1 11 72±0.5 ° ₽ 10 55.5±0.1 50±0.5 00 ø Ć Grease 7<u>2\*50\*0.25t</u> UNIT: mm PAGE 3 **OF** 8 SUNONWEALTH ELECTRIC SPEC. NO. C02006390F-01 MACHINE INDUSTRY CO., LTD. 02.01.2023

**ISSUED DATE** 建準電機工業股份有限公司 **EDITION** 3

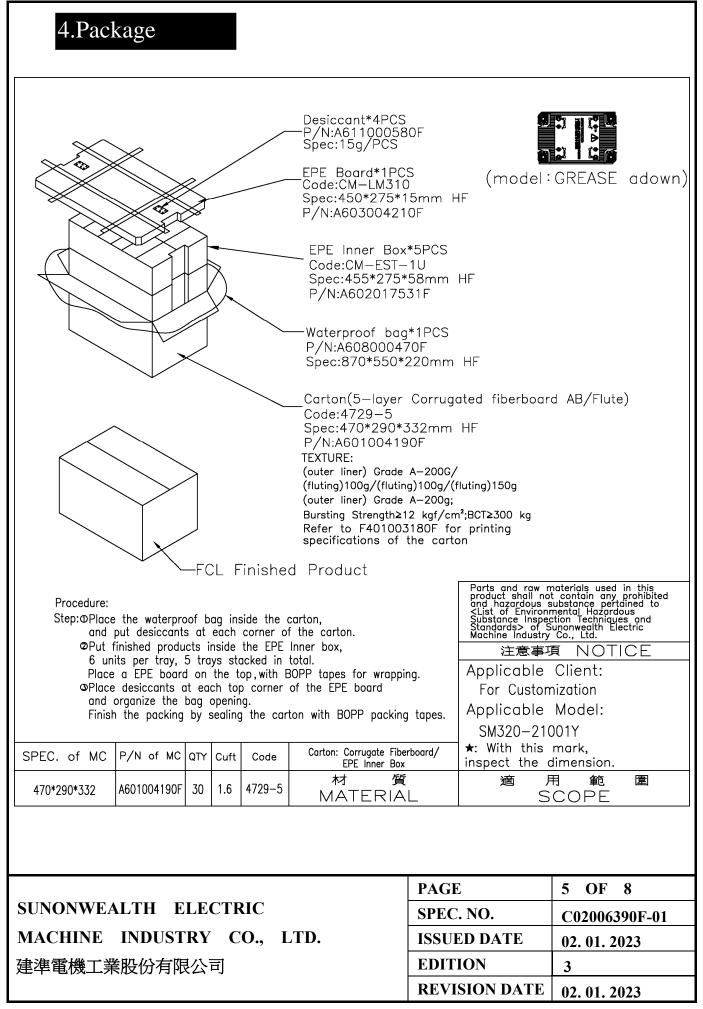
**REVISION DATE** 

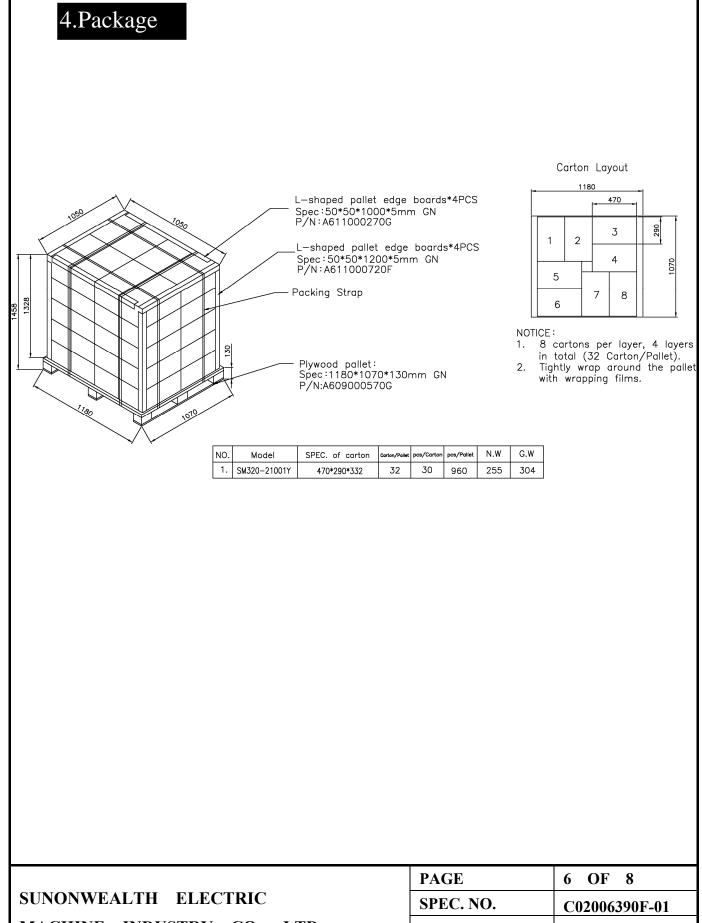
02.01.2023

# 3.Heatsink Performance



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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 depleting substances)			Forbidden
2	Chlorinated Organic Solvent			Forbidden
		Plastic (Frame, Impeller, wir	re harness, etc.)	<100ppm
3		Solder		<100ppm <1000ppm
	Lead and its compounds	Steel alloy		<3500ppm <4000ppm
		Aluminium alloy		<4000ppm
		Copper alloy Solder		<4wt% <20ppm
	Cadmium and its	Parts composed of metals co	ntaining zinc	
4	compounds	(e.g. brass, zinc for die castin		<100ppm
	<b>I</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	Mercury and its compoun	lds		Forbidden
12	Asbestos			Forbidden
13	Organic Tin compounds			Forbidden
21	Azo compounds			Forbidden
15				<1000ppm
16				<1000ppm
17				<1000ppm
18				<1000ppm
19	Benzyl butyl Phthalate (BBP)			<1000ppm
20	Di-ethylhexyl Phthalate (D	EHP)		<1000ppm
21				<1000ppm
	Brominated/chlorinated flame retardants (other than PBBs or PBDEs),			Br<900ppm
22	applicatable item: frame,	bobbin, impeller, lear wire, co	onnector, mylar	Cl<900ppm
	insulator.			Br+Cl<1500ppm
• • •				BaP < 20ppm
23	23 PAHs and its 16 compounds in unusual contact material			Total <200ppm
				PFOS <1000ppm;
24	PCB and electroplating material, PFOS content complianced with			coating material
	24 2006/122/EC			$PFOS \leq 1 \mu g/m^2$
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