

SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:	Sunon Inc.
MOTOR TYPE	:	MAGLev® Fan & Blower by SUNON
DESCRIPTION	:	MagLev Motor Blower
DIMENSIONS	:	17X17X3 mm
MODEL	:	UB3H3-700
SUNON SPEC. NO.	:	D01000931F-02
CUSTOMER APPROVAL NO.	:	UB3H3-700 TC
APPROVED BY CUSTOMER (AUTHORIZED)	:	

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建準電	建準電機工業股份有限公司													
SUNO	WEALTH 1	ELECTR	IC MACHIN	NE INDUS	STRY CO.,	LTD.								
NO. 30,	NO. 30, LN. 296, XINYA RD., QIANZHEN DIST., TEL:886-7-8135888													
KAOH	KAOHSIUNG CITY 80673, TAIWAN (R.O.C) FAX:886-7-8230505/8230606/8231010													
URL:ht	ttp://www.su	non.com			E-mail:	sunon@email.su	URL:http://www.sunon.com E-mail: sunon@email.sunon.com.tw							

DC BRUSHLESS BLOWER MODEL : UB3H3-700

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CHARACTERISTICS

1. Motor Design	:	Single ph	ase, 6-poles Brushless DC motor
2. Insulation Resistance	:		n 20M ohm between internal stator and (+) measured at DC 100V.
3. Dielectric Strength	:		AC 500V for one minute or AC 600V for between housing and lead wire(+)
4. Noise Level	:	with bacl dB(A). T micropho	d in a semi-anechoic chamber &ground noise level below 15 he fan is running in free air with the one at a distance of one meter fan intake.
5. Input Power, Current & Speed	:	operation	d after continuous 10 minute a at rated voltage in clean air, and nt temperature of 25 degrees C.
6. Tolerance	:	+20%/-	30% on rated power and current.
7. Air Performance	:		d by a double chamber. The values ded when the fan speed has stabilized ⁄oltage.
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SPECIFICATIONS

MODEL : UB3H3-700

1-1. Rated Voltage	: 3 VDC
1-2. Operating Voltage Range	: 2.0~3.5 VDC
1-3. Starting Voltage	: 2.0 VDC (25 deg. C POWER ON/OFF)
1-4. Rated Speed	: 12500 RPM ± 30%
1-5. Air Delivery	: 6.5 l/min
1-6. Static Pressure	: 40.34 Pa
1-7. Rated Current	: 37 mA
1-8. Rated Power	: 0.1 WATTS
1-9. Noise Level	: 20.4 dB(A) @ 1M 32.0 dB(A) @ 0.3M
1-10. Direction of Rotation	: Counter-clockwise viewed from front of fan blade
1-11. Operating Temperature	: -10 to +70 deg. C
1-12. Storage Temperature	: -40 to +70 deg. C
1-13. Bearing System	: Vapo bearing system
1-14. Weight	: 1.2 g
1-15. Safety	: CE Approvals
1-16. Protection 1-17. IP Class : IP55	 : ☑Automatic Restart Capability Note: In a situation where the fan is locked by an external force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released. Polarity Protection According to IEC 60529 (or IEC 34-5) IP standard, the average
	 temperature is 23~24°C and humidity is 67% RH for Dust Water Test. The fan needs to be test and Spray Put in dust box for 8 hours for Dust Test and be sprayed low pressure jets of water from all directions for Spray Water Test. After these 2 tests, which executing by regular standard, the fan will be measured the performance is normal or not. PS. There are different applicative environments and systems by different customers, so please put the product in the most suitable environment to measure the performances.
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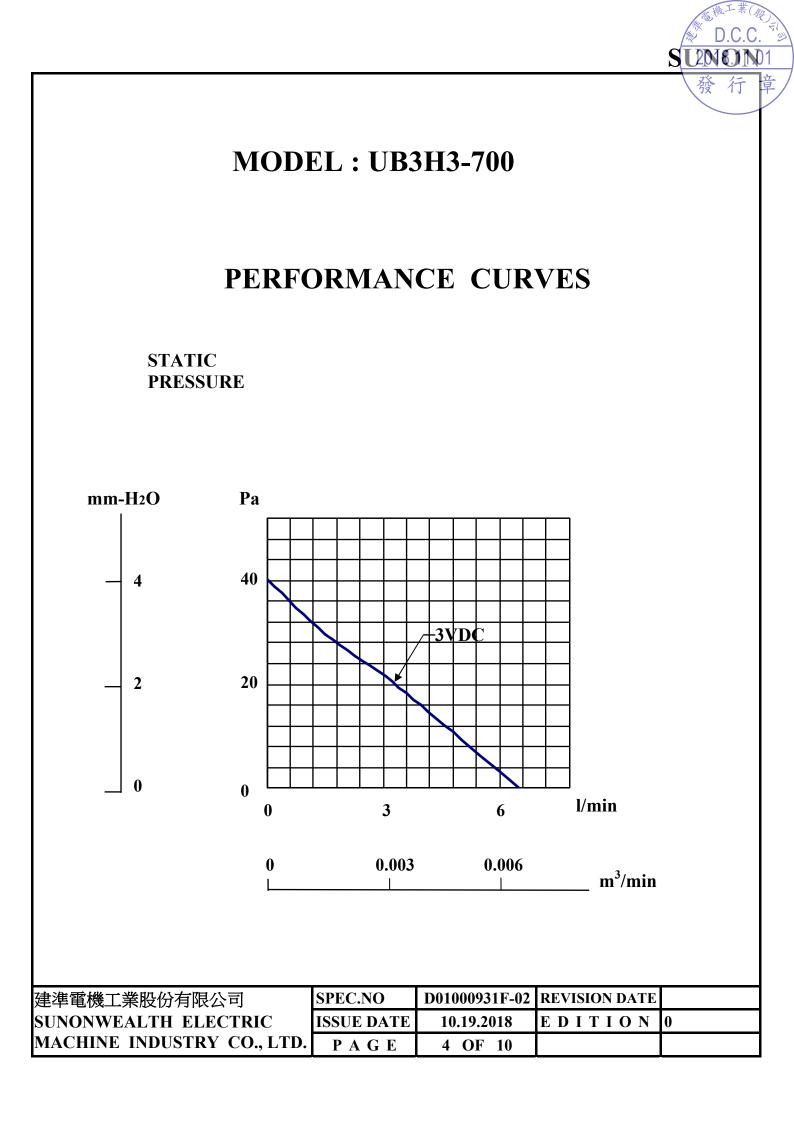
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MATERIAL

2-1. Frame

2-2. Impeller

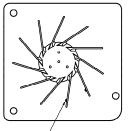
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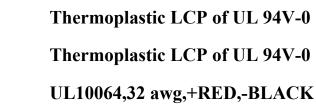
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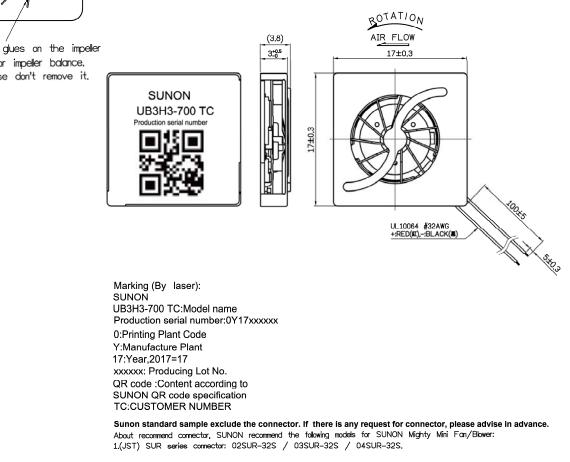
2-3. Lead Wire





Note: The glues on the impeller is for impeller balance. Please don't remove it.





- 1. One directional exhaust.
- 2. Best Mounting Direction: Fan blade face up or shaft horizontal direction.

UNIT : mm

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Notes

I .SAFETY

- 1. DO NOT use or operate this fan in excess of the limitations set forth in this specification. SUNON is not responsible for the non-performance of this fan and/or any damages resulting from its use, if it is not used or operated in accordance with the specifications.
- 2. SUNON recommends adding a protection circuit to the product or application in which this fan is installed, such as a thermo-fuse, or current-fuse or thermo-protector. The failure to use such a device may result in smoke, fire, electric shock by insulation degradation in cases of motor lead short circuit, overload, or over voltage, and/or other failure.
- 3. SUNON recommends installing a protection device to the product or application in which this fan is installed if there is a possibility of reverse-connection between VDC (+) and GND (-). The failure to install such a device may result in smoke, fire, and/or destruction, although these conditions may not manifest immediately.
- 4. This fan must be installed and used in compliance with all applicable safety standards and regulations.
- 5. Use proper care when handling and/or installing this fan. Improper handling or installation of this fan may cause damage that could result in unsafe conditions.
- 6. Use proper care during installation and/or wiring. Failure to use proper care may cause damage to certain components of the fan including, but not limited to, the coil and lead wires, which could result in smoke and/or fire.
- 7. DO NOT use power or ground PWM to control the fan speed. If the fan speed needs to be adjusted, please contact SUNON to customize the product design for your application.
- 8. For critical or extreme environments, including non stop operation, please contact SUNON and we will gladly provide assistance with your product selection to ensure an appropriate cooling product for your application.

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Notes



- 1. SUNON offers engineering assistance on fan 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 fan 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.

III. OTHER

- 1. When building your device, please examine thoroughly any variation of EMC, temperature rise, life data, quality, etc. of this product by shock/drop/vibration testing, etc. If there are any problems or accidents in connection with this product, it should be mutually discussed and examined.
- 2. Use proper care when handling this fan. Components such as fan holders or bearings may be damaged, if touched with fingers or other objects. Additionally, static electricity (ESD) may damage the internal circuits of the fan.
- 3. DO NOT operate this fan 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.
- 4. SUNON recommends that you protect this fan from exposure to outside elements such as dust, condensation, humidity or insects. Exposure of this fan to outside elements such as dust, condensation, humidity or insects may affect its performance and may cause safety hazards. SUNON does not warrant against damage to the product caused by outside elements.

Re: The term can be excluded, if the fan has been with IP design and meets customer's IP requirement.

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Notes

- 5. This fan must be installed properly and securely. Improper mounting may cause harsh resonance, vibration, and noise.
- 6. Fan guards may prevent injury during handling or installation of the fan and are available for sale with this fan.
- 7. Unless otherwise noted, all testing of this fan is conducted at 25°C ambient temperature and sixty-five percent (65%) relative humidity.
- 8. DO NOT store this fan in an environment with high humidity. This fan must be stored in accordance with the attached specifications regarding storage temperature. If this fan is stored for more than 6 months, SUNON recommends functional testing before using.
- 9. 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.
- 10.The "Life Expectancy" of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Reports (L10 and MTTF Report) that relate to this fan are only for reference.

VI. WARRANTY

This fan 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 fan or the replacement thereof, at SUNON's sole discretion. SUNON will not be responsible for the failures of its fans 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 fans proven to be defective.

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Declaration of Restricted Materials

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

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.

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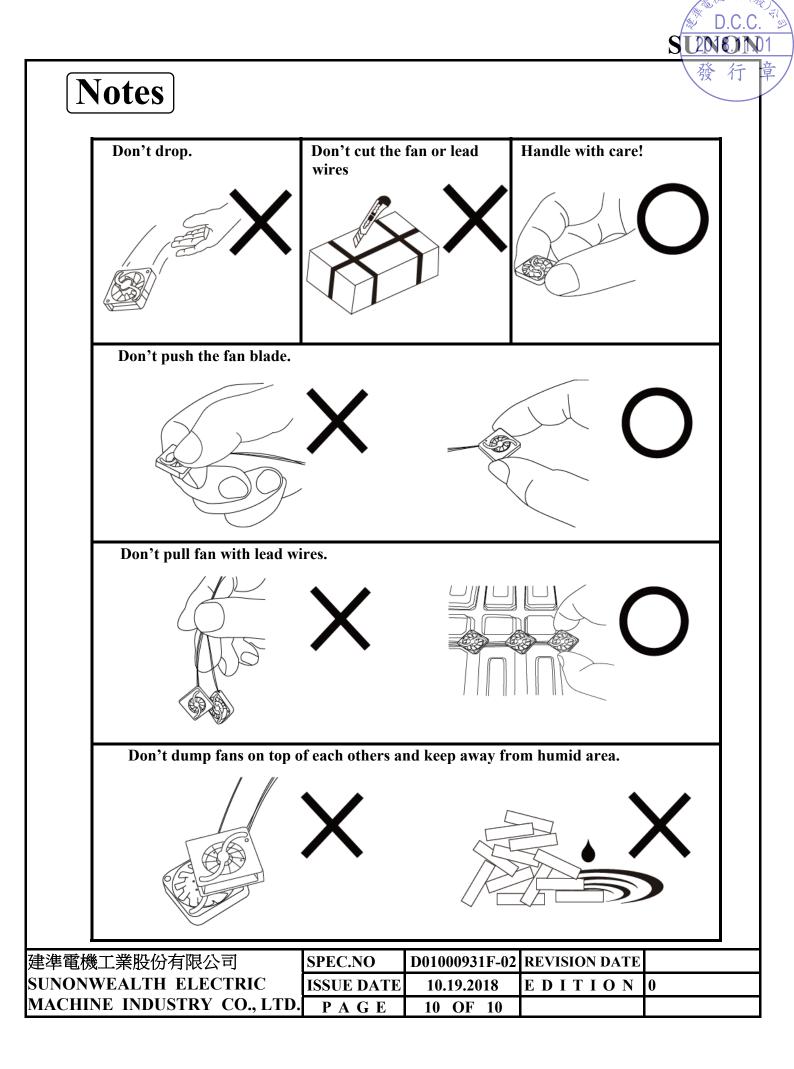
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			Substance			C	riteria
1	CFCs & HCFCs (ozone d	epleting	substances)			Forbid	lden
2	Chlorinated Organic Solv	rent				Forbidden	
		Plastic	(Frame, Impelle	er, wire harness, etc	e.)	<100p	pm
		Solder	· · · · · · · · · · · · · · · · · · ·			<1000	opm
3	Lead and its compounds	Steel al	lloy			<3500	opm
		Alumir	nium alloy			<4000	opm
		Copper	r alloy			<4wt%	Ď
		Solder				<20pp	m
4	Cadmium and its			als containing zinc		<100p	nm
4	compounds	(e.g. br	ass, zinc for die	casting)		~100pj	hm
		Plastic				<5ppm	1
5	PBBs and PBDEs					Forbid	lden
6	PCB and PCT					Forbid	lden
7	CP, Short-chain Chlorina	ted para	offins C10-13, Cl	≥48 wt%		Forbid	lden
8	Mirex	•				Forbid	lden
9	PCN					Forbid	lden
10	Hexavalent Chromium co	mpound	s			<100p	pm
11	Mercury and its compour					Forbidden	
12	Asbestos					Forbid	
13	Organic Tin compounds					Forbidden	
14	Azo compounds					Forbid	
15	TBBP-A in external case	plastic p	arts of products	(PCB is exempted)		<1000	opm
16	Nickel in external case par			· • • •		<1000p	
17	Hexabromocyclododecan	,	ľ	1 8	•	<1000	1
18	Di-butyl Phthalate (DBP)					<1000	
19	Benzyl butyl Phthalate (B	BP)				<1000	-
20	Di-ethylhexyl Phthalate (l	/				<1000p	
21	Di-isobutyl Phthalate (DI					<1000	-
	Brominated/chlorinated f	,	ardants (other t	han PBBs or PBDE	ls),	Br<90	-
22						Cl<900ppm	
	insulator.					Br+Cl<1500ppm	
22	DAILs and its 16 someour	da in un	ugual contact m	-4		BaP <	20ppm
23	PAHs and its 16 compoun	us in un	usual contact m			Total <	<200ppm
	DCD and algotranlating m	otorial	DEOS contont a	omplianced with			<u><</u> 1000ppn
24	PCB and electroplating material, PFOS content complianced with 2006/122/EC					coating material	
	2000/122/EC					PFOS	$\leq 1\mu g/m^2$
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Mouser Electronics

Authorized Distributor

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