SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:	
MOTOR TYPE	:	MAGLev [®] Fan & Blower by SUNON
DESCRIPTION	:	MagLev Motor Blower
DIMENSIONS	:	50X50X20 mm
MODEL	:	GB1205PKV1-8AY
P/N	:	GN
SUNON SPEC. NO	:	D05019610G-00
APPROVAL NO.	:	
APPROVED BY (AUTHORIZED)	:	

						SPEC.NO	D05019610G- 00
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						REVISION DATE	06. 03. 2013
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			SS BLOWE 205PKV1-8A			
CHARACTERISTICS)						
1. Motor Design	:	Patented	single-coil DC b	rushless 8	pole mot	or design.
2. Insulation Resistance	:	More tha	n 500M ohm bet	ween inter	nal stato	r and
		lead wire	e(+) measured at	DC 500V.		
3. Dielectric Strength	:	Applied A	AC 500V for one	minute or	AC 600V	/ for
		2 seconds	s between housin	g and lead	wire(+)	
4. Noise Level	:	Measure	d in a semi-anech	ioic chamb	ber	
		with bacl	kground noise lev	vel below 1	5	
		dB(A). T	he fan is running	in free air	with the	e
		micropho	one at a distance	of one met	er	
		from the	fan intake.			
5. Input Power, Current & Sp	eed :	Measure	d after continuou	is 10 minut	te	
		operation	n at rated voltage	in clean a	ir, and	
		at ambie	nt temperature o	f 25 degree	es C.	
6. Tolerance	:	±15% on	rated power and	l current.		
7. Air Performance	:	Measure	d by a double cha	amber. The	e values	
		are recor	ded when the far	n speed has	s stabilize	ed
		at rated v	voltage.			
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SPECIFICATIONS

MODEL : GB1205PKV1-8AY P/N : GN

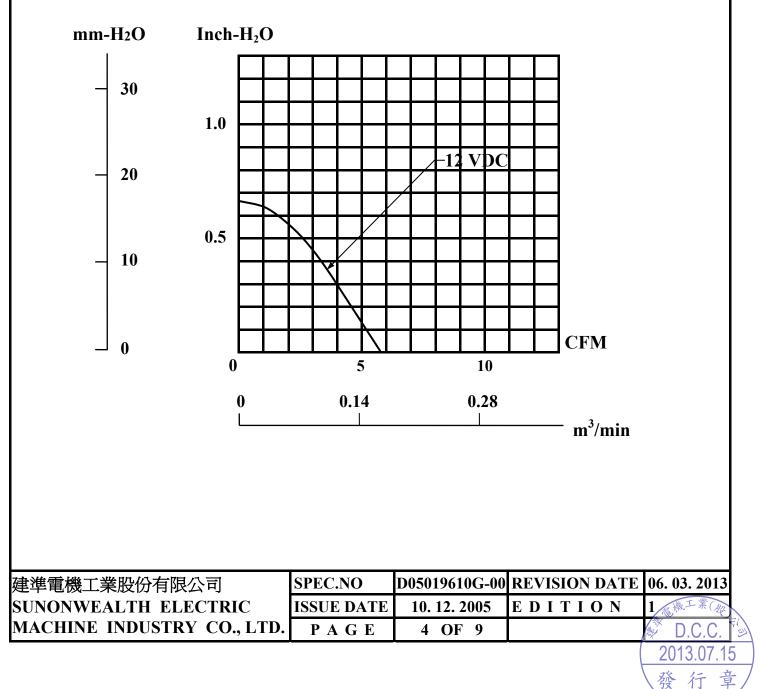
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1-17. Locked Rotor Protection	: Automatic Restart Capability Note: In a situation where the fan is locked by an external force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released.
1-16. Vibration	 Vibration of acceleration 1.5G and frequency 5~50~5Hz is applied in all 3 directions(X,Y,Z), in cycles of 1 minute each, for a total vibration time of 30 minutes.
1-15. Safety	: UL/CUR/TUV/CE Approvals
1-14. Weight	: 33 g
1-13. Bearing System	: Vapo bearing system
1-12. Storage Temperature	: -40 to +70 deg. C
1-11. Operating Temperature	: -10 to +70 deg. C
1-10. Direction of Rotation	: Counter-clockwise viewed from front of fan blade
1-9. Noise Level	: 35.0 dB(A)
1-8. Rated Power	: 1.5 WATTS
1-7. Rated Current	: 124 mA
1-6. Static Pressure	: 0.66 Inch-H2O
1-4. Kateu Specu 1-5. Air Delivery	: 5.7 CFM
 1-3. Starting Voltage 1-4. Rated Speed 	: 6 VDC (25 deg. C POWER ON/OFF) : 5200 RPM ± 10%
1-2. Operating Voltage Range	: 6~13.8 VDC
1-1. Rated Voltage	: 12 VDC

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PERFORMANCE CURVES

STATIC PRESSURE

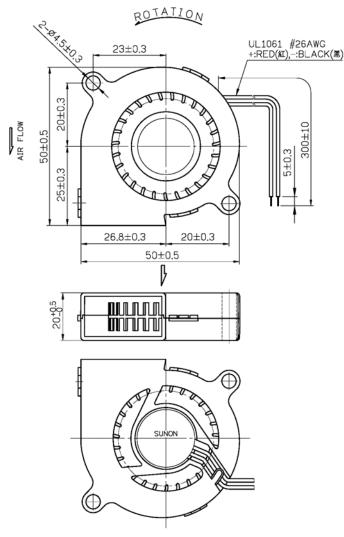


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MATERIAL

2-1. Frame:Thermoplastic PBT of UL 94V-02-2. Impeller:Thermoplastic PBT of UL 94V-02-3. Bobbin:Thermoplastic PBT of UL 94V-02-4. Lead Wire:UL1061,26 awg,+RED,-BLACK





1. One directional exhaust

2. Best Mounting Direction: Fan blade face up or shaft horizontal direction.

UNITS: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 thermoprotector. 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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II. SPECIFICATION MODIFICATION

- 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.

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- 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 specfications 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 RoHS

Control declaration of environment- related substances/ materials

1. In accordance with the Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU, SUNON 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 depleti	ing substances)	Forbidden	
2	Chlorinated Organic Solvent			
		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	4 Cadmium and its compounds	Parts composed of metals containing zinc	<100ppm	
4		(e.g. brass, zinc for die casting)	<100ppm	
		Plastic	<5ppm	
5	PBBs and PBDEs			
6	PCB and PCT			
7	CP, Short-chain Chlorinated paraffins C10-13, Cl ≥48 wt%			
8	Mirex		Forbidden	
9	PCN			
10	Hexavalent Chromium compounds			
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)			
16	Nickel in external case parts, whi	ch are likely to result in prolonged skin exposure	<1000ppm	
17				
18	Di-butyl Phthalate (DBP)			
19	Benzyl butyl Phthalate (BBP)		<1000ppm	
20	Di-ethylhexyl Phthalate (DEHP)			
21	Di-isobutyl Phthalate (DIBP)		<1000ppm	

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