# **SUNON**

### SPECIFICATION FOR APPROVAL

CUSTOMER	:
DESCRIPTION	: AXIAL AC FAN
DIMENSIONS	: 120X120X38 mm
MODEL	: SP100A
P/N	: 1123XSL.GN
SUNON SPEC. NO.	: A12003250G-00
CUSTOMER APPROVAL NO.	:
<b>APPROVED BY</b> <b>CUSTOMER</b> (AUTHORIZED)	:

						SPEC.NO	A12003250G-00	
						<b>ISSUE DATE</b>	04.30.2005	
DRAWN	Angela	CHECKED	Cindy	APPROVED	King	EDITION	4	
			•		-	<b>REVISION DATE</b>	04.10.2023	
						E.SPEC	EA12103	
建準電機工	建準電機工業股份有限公司							
SUNONW	SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.							
NO. 30, L	NO. 30, LN. 296, XINYA RD., QIANZHEN DIST., TEL:886-7-8135888							
KAOHSII	KAOHSIUNG CITY 80673, TAIWAN (R.O.C) FAX:886-7-8230505/8230606/8231010 = #							
URL:http://www.sunon.com E-mail: sunon@email.sunon.com								

2023.04.11 發行章

# SUNON

發行章

SUNONWEALTH ELECTRICISSUE DATE04. 30. 2005E D I T I O N4MACHINE INDUSTRY CO., LTD.PAGE2 OF 9D.C.C.				<b>k</b>	
P/N : 1123XSL.GN   CHARACTERISTICS :   1. Motor Design :   1. Motor Design :   2. Insulation Resistance :   3. Dielectric Strength :   1. Motor Protection :   1. Measured in a semi-anechoic chamber   with background noise level below 15   dB(A). The fan is running in free air with the   microphone at a distance of one meter   from the fan intake.   6. Tolerance :   2. Air Performance :   weasured by a double chamber. The values   are recorded when the fan speed has stabilized   at rated voltage.		AXIAL AC	FAN		
CHARACTERISTICS   1. Motor Design : Reliable Shaded-Pole Motor Construction.   2. Insulation Resistance : 500 Megohms minimum at 500 VDC.   3. Dielectric Strength : 1800 VAC for one second.   4. Motor Protection : Impedance protected.   5. Noise Level : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電鏡工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPECNO A12003250G-00 REVISION DATE 04.10.2023		MODEL : SP	100A		
CHARACTERISTICS   1. Motor Design : Reliable Shaded-Pole Motor Construction.   2. Insulation Resistance : 500 Megohms minimum at 500 VDC.   3. Dielectric Strength : 1800 VAC for one second.   4. Motor Protection : Impedance protected.   5. Noise Level : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPECNO A12003250G-00 REVISION DATE 04.10.2023		P/N : 112	23XSL.GN		
1. Motor Design : Reliable Shaded-Pole Motor Construction.   2. Insulation Resistance : 500 Megohms minimum at 500 VDC.   3. Dielectric Strength : 1800 VAC for one second.   4. Motor Protection : Impedance protected.   5. Noise Level : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023					
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3. Dielectric Strength : 1800 VAC for one second.   4. Motor Protection : Impedance protected.   5. Noise Level : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023	1. Motor Design	: Reliable	e Shaded-Pole I	Motor Construc	tion.
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4. Motor Protection : Impedance protected.   5. Noise Level : Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023			6		
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dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A120032 E D I T I O N 4	5. Noise Level	: Measur	red in a semi-an	echoic chambei	ſ
dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A120032 E D I T I O N 4					
microphone at a distance of one meter   from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values   are recorded when the fan speed has stabilized   at rated voltage.   建準電機工業股份有限公司   SUNONWEALTH ELECTRIC   MACHINE INDUSTRY CO., LTD.		with ba	ckground noise	e level below 15	
microphone at a distance of one meter   from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values   are recorded when the fan speed has stabilized   at rated voltage.   建準電機工業股份有限公司   SUNONWEALTH ELECTRIC   MACHINE INDUSTRY CO., LTD.					
from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   BSUE DATE 04.30.2005 E D I T I O N 4		<b>dB(A).</b> '	The fan is runn	ing in free air v	vith the
from the fan intake.   6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   BSUE DATE 04.30.2005 E D I T I O N 4					
6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   PAGE 2 OF 9 D.C.C.		microp	hone at a distar	ice of one meter	
6. Tolerance : ±15% on rated power and current.   7. Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   PAGE 2 OF 9 D.C.C.					
7. Air Performance : Measured by a double chamber. The values   are recorded when the fan speed has stabilized   at rated voltage.   建準電機工業股份有限公司   SUNONWEALTH ELECTRIC   MACHINE INDUSTRY CO., LTD.		from th	e fan intake.		
7. Air Performance : Measured by a double chamber. The values   are recorded when the fan speed has stabilized   at rated voltage.   建準電機工業股份有限公司   SUNONWEALTH ELECTRIC   MACHINE INDUSTRY CO., LTD.					
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are recorded when the fan speed has stabilized at rated voltage. 建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. PAGE 2 OF 9 0.C.C.		• _10 / 0 0		i unu current	•
are recorded when the fan speed has stabilized at rated voltage. 建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. PAGE 2 OF 9 0.C.C.					
at rated voltage. 建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. PAGE 2 OF 9	7. Air Performance	: Measur	ed by a double	chamber. The v	values
at rated voltage. 建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. PAGE 2 OF 9					
建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. PAGE 2 OF 9 04.10.2023		are reco	orded when the	fan speed has sta	abilized
建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. PAGE 2 OF 9 04.10.2023					
SUNONWEALTH ELECTRICISSUE DATE04. 30. 2005E D I T I O N4MACHINE INDUSTRY CO., LTD.PAGE2 OF 9D.C.C.		at rated	l voltage.		
SUNONWEALTH ELECTRICISSUE DATE04. 30. 2005E D I T I O N4MACHINE INDUSTRY CO., LTD.PAGE2 OF 9D.C.C.	海海家機で光明バギャパラ	SDEC NO	A 12002250C 00	DEVISION DATE	0/ 10 2022
MACHINE INDUSTRY CO., LTD. PAGE 2 OF 9 D.C.C.					
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### **SPECIFICATIONS**

### MODEL : SP100A P/N : 1123XSL.GN

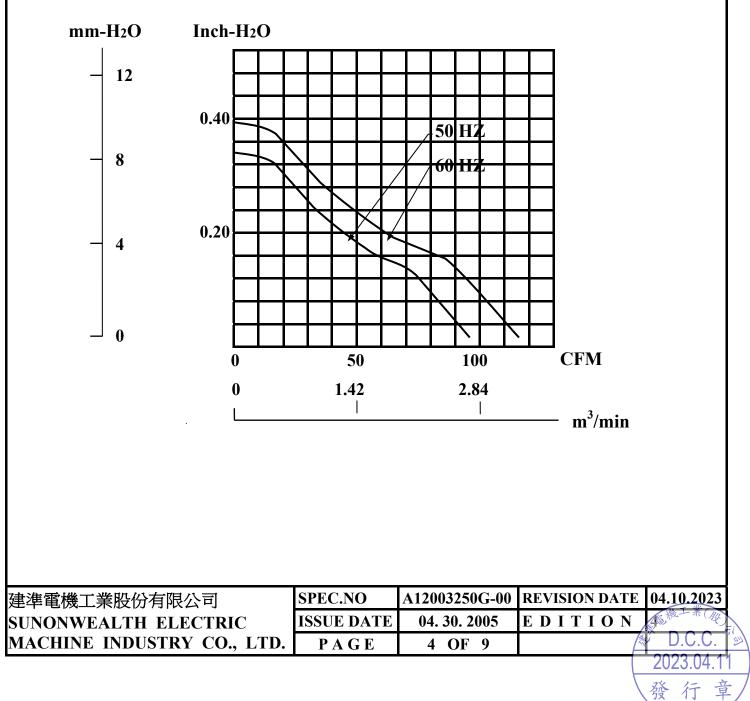
1-1. Rated Voltage : 115 VAC 50/60 Hz   1-2. Operating Voltage Range : 85-125 VAC   1-3. Starting Voltage : 85 VAC   1-4. Rated Speed : 2700/3100 RPM ± 10%   1-5. Air Delivery : 95/115 CFM   1-6. Static Pressure : 0.33/0.38 Inch-H2O   1-7. Rated Current : 0.26/0.24 AMP   1-8. Rated Power : 22/20 WATTS   1-9. Noise Level : 44/49 dB(A)   1-10. Direction of Rotation : Counter-clockwise viewed from front of fan blade   1-11. Operating Temperature : -10 to +70 deg. C   1-13. Bearing System : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. Protection :									
1-3. Starting Voltage : 85 VAC   1-4. Rated Speed : 2700/3100 RPM ± 10%   1-5. Air Delivery : 95/115 CFM   1-6. Static Pressure : 0.33/0.38 Inch-H2O   1-7. Rated Current : 0.26/0.24 AMP   1-8. Rated Power : 22/20 WATTS   1-9. Noise Level : 44/49 dB(A)   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 : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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 of the electricity is on, an increase in coil temperature will be prevented by temporarily turning of the electricity is on, an increase in coil temperature will be prevented by temporarily running of the electricity is on, an increase in coil temperature will be prevented by temporarily running of the electricity is on, an increase in coil temperature will be pre	1-1. Rated Voltage	:	115 VAC	50/60 Hz					
1-4. Rated Speed : 2700/3100 RPM ± 10%   1-5. Air Delivery : 95/115 CFM   1-6. Static Pressure : 0.33/0.38 Inch-H2O   1-7. Rated Current : 0.26/0.24 AMP   1-8. Rated Power : 22/20 WATTS   1-9. Noise Level : 44/49 dB(A)   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 : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. Protection : □Automatic Restart Capability   Note: In situation where the ins locked by an external force while the electricity is on, an increase in coll temperature will be prevented by temporarily turning off the electricity is on, an increase in coll temperature will be prevented by temporarily running off the electricity is on, an increase in coll temperature will be prevented by temporarily running off the electricity is not an increase in coll temperature will be prevented by temporarily running off the electricity is not an increase in coll temperature will be prevented by temporarily running off the electricity is not an increase in coll temperature will be prevented by temporarily restrict when the locked rotor condition is released.   □Polarity Protection Issue DATE 04.30.2005 E D I T I O N 400000000	1-2. Operating Voltage Range	:	<b>85-125 V</b> A	AC					
1-5. Air Delivery : 95/115 CFM   1-6. Static Pressure : 0.33/0.38 Inch-H2O   1-7. Rated Current : 0.26/0.24 AMP   1-8. Rated Power : 22/20 WATTS   1-9. Noise Level : 44/49 dB(A)   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 : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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 coli temperature will be prevented by temporarily turning of the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released.   □Polarity Protection : SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   sunonweal.TH ELECTRIC ISSUE DATE 04.30.2005 E D I T I O N 4	1-3. Starting Voltage	:	85 VAC	85 VAC					
1-6. Static Pressure : 0.33/0.38 Inch-H2O   1-7. Rated Current : 0.26/0.24 AMP   1-8. Rated Power : 22/20 WATTS   1-9. Noise Level : 44/49 dB(A)   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 : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. Protection : □Automatic Restart Capability   Note: In a situation where the fin is locked by an external force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning of the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released.   □Polarity Protection : ISUE DATE 04.30.2005 E D I T I O N   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC AA G E 3 OF 9 D.C.C.	1-4. Rated Speed	:	2700/3100	2700/3100 RPM <u>+</u> 10%					
1-7. Rated Current : 0.26/0.24 AMP   1-8. Rated Power : 22/20 WATTS   1-9. Noise Level : 44/49 dB(A)   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 : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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 comperature 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 : SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   gamma Katther LECTRIC MACHINE INDUSTRY CO., LTD. : SPEC.NO A12003250G-00 REVISION DATE 04.10.2023	1-5. Air Delivery	:	95/115 CH	FM					
1-8. Rated Power : 22/20 WATTS   1-9. Noise Level : 44/49 dB(A)   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 : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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.   □Polarity Protection : SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   gzwa@@mt_met_Rkpdfare_start_context	1-6. Static Pressure	:	0.33/0.38	Inch-H2O					
1-9. Noise Level : 44/49 dB(A)   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 : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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 of the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released.   □Polarity Protection ISUE DATE 04.30.2005 E D I T I O N   基準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   ISSUE DATE 04.30.2005 E D I T I O N Automatic Rest 3 OF 9 D.C.C.	1-7. Rated Current	:	0.26/0.24	AMP					
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 : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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.   □Polarity Protection : Polarity Protection   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   MACHINE INDUSTRY CO., LTD. PAGE 3 OF 9 D.C.C	1-8. Rated Power	:	22/20 WA	TTS					
1-11. Operating Temperature : -10 to +70 deg. C   1-12. Storage Temperature : -40 to +70 deg. C   1-13. Bearing System : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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.   □Polarity Protection : BEC.NO   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC ISSUE DATE 04.30.2005 E D I T I O N D.C.C	1-9. Noise Level	:	44/49 dB(	<b>A)</b>					
1-12. Storage Temperature : -40 to +70 deg. C   1-13. Bearing System : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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.   □Polarity Protection □Polarity Protection   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC ISSUE DATE 04.30.2005 E D I T I O N 4   MACHINE INDUSTRY CO., LTD. PAGE 3 OF 9 D.C.C.	1-10. Direction of Rotation	:	Counter-c	lockwise viewed	from front of fan blade				
1-13. Bearing System : Lubricated sleeve bearing system   1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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.   □Polarity Protection   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC ISSUE DATE 04. 30. 2005 E D I T I O N 4	1-11. Operating Temperature	:	-10 to +70	deg. C					
1-14. Weight : 550 g   1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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.   運準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023	1-12. Storage Temperature	:							
1-15. Safety : TUV/UL/CSA/CE/UKCA Approvals   1-16. 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.   建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   ISSUE DATE 04. 30. 2005 E D I T I O N Automatically	1-13. Bearing System	:	Lubricate	ed sleeve bearin	g system				
1-16. 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.   □Polarity Protection   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC ISSUE DATE 04.30.2005 E D I T I O N Automatically   PAGE 3 OF 9 D.C.C.	1-14. Weight	:	550 g						
1-16. 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.   □Polarity Protection   建準電機工業股份有限公司 SPEC.NO A12003250G-00 REVISION DATE 04.10.2023   SUNONWEALTH ELECTRIC ISSUE DATE 04.30.2005 E D I T I O N Automatically   PAGE 3 OF 9 D.C.C.	1-15. Safety	:	TUV/UL/	CSA/CE/UKCA	Approvals				
SUNONWEALTH ELECTRIC ISSUE DATE 04. 30. 2005 E D I T I O N 4 ***   MACHINE INDUSTRY CO., LTD. PAGE 3 OF 9 D.C.C.		: 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.							
MACHINE INDUSTRY CO., LTD. PAGE 3 OF 9 D.C.C.	建準電機工業股份有限公司	SI	PEC.NO	A12003250G-00	<b>REVISION DATE</b> 04.10.2	2023			
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## **MODEL : SP100A**

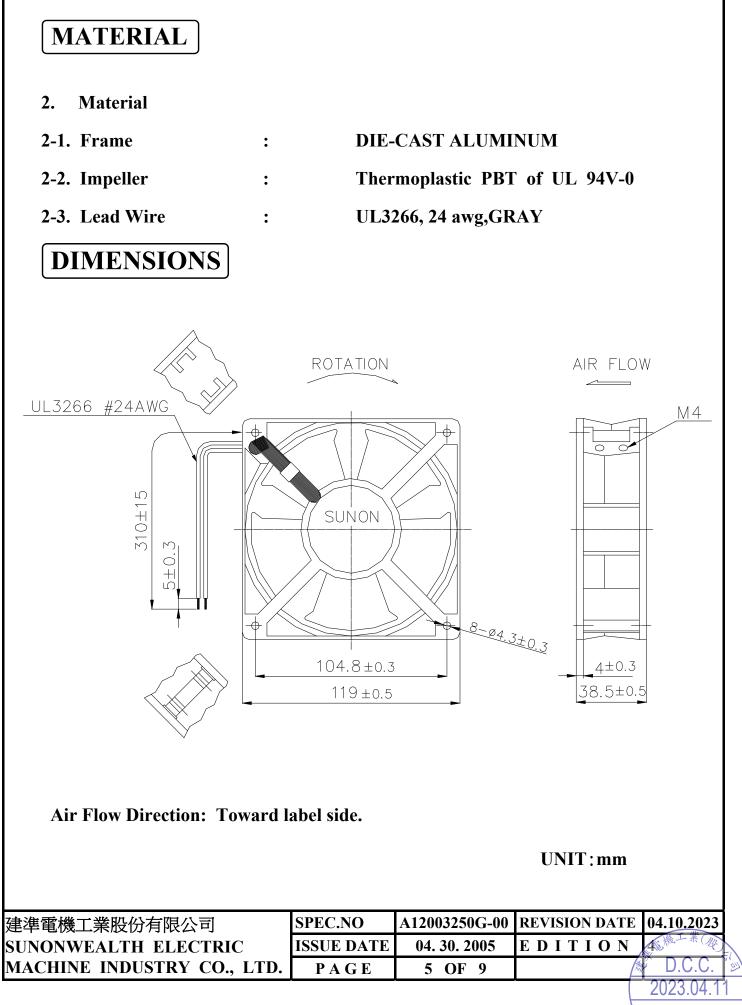
### P/N : 1123XSL.GN

## **PERFORMANCE CURVES**

STATIC PRESSURE



# SUNON



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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 lock, 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

### **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.

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 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		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 some ounds	Parts composed of metals containing zinc	<100ppm		
4	Cadmium and its compounds	(e.g. brass, zinc for die casting)	<100ppm		
		Plastic	<5ppm		
5	PBBs and PBDEs		Forbidden		
6	PCB and PCT	PCB and PCT			
7	CP, Short-chain Chlorinated paraffins C10-13, Cl≥48 wt%				
8	Mirex		Forbidden		
9	PCN		Forbidden		
10	Hexavalent Chromium compo	unds	<100ppm		
11	Mercury and its compounds		Forbidden		
12	Asbestos		Forbidden		
13	Organic Tin compounds				
14	Azo compounds		Forbidden		
15	TBBP-A in external case plasti	c parts of products (PCB is exempted)	<1000ppm		
16	Nickel in external case parts, whi	ch are likely to result in prolonged skin exposure	<1000ppm		
17	Hexabromocyclododecane (HB		<1000ppm		
18	Di-butyl Phthalate (DBP)		<1000ppm		
19	Benzyl butyl Phthalate (BBP)		<1000ppm		
20	Di-ethylhexyl Phthalate (DEHI	P)	<1000ppm		
21	Di-isobutyl Phthalate (DIBP)		<1000ppm		

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