



# Certificate

Certificate No.: IAS-QMS-20-024

This is to certify that the Management System of  
**SINWAN Electric Industries Co., Ltd.**

Carried out at following site

8F., No.18, Ln. 270, Sec. 3, Beishen Rd., Shenkeng Dist., New Taipei City 22205,  
Taiwan (R.O.C.)

Has been assessed and found to be in accordance with the requirements of standard  
detail below

**ISO 9001:2015**

This certificate is valid for the following scope

The Design, Manufacturing and Sales of Fan, Motor  
and Fan Accessories  
(IAF Code: 19)

Issue Date: 19 JUN 2020

Valid Until: 18 JUN 2023

David Liu, Managing Director

GREAT International  
Certification Co., Ltd.  
5F., No. 890, Jingguo Rd.,  
Lujhu Dist., Taoyuan City  
33858, Taiwan (R.O.C.)  
+886-3-357-3636  
www.great-cert.com.tw





**Applicant** : SINWAN ELECTRIC INDUSTRIES CO., LTD  
8F, No.18, Lane 270, Sec.3, Beishen Rd, Shenkeng Dist,  
New Taipei City 222, Taiwan

**Description** : Sample Name DC Axial Fan  
Model Name SD1238PT-24HWB  
Date of Received Oct. 04, 2019  
Date of Testing Oct. 07, 2019 ~ Oct. 09, 2019

**Test Required** : As requested by the applicant, please see following sheets in detail.

Conclusion	Test Information	Q'ty	Test Result	Page
	Degrees of protection provided by enclosures : IP6X	1	PASS	3
	High-Pressure/Steam Jet Cleaning Test : IPX9K	1	PASS	4

**Testing Site** : No. 869-1, Rongxing Rd., Bade Dist., Taoyuan City 334, Taiwan (R.O.C.)

**Certificate** : TAF/ ilac-MRA Certificate of Independent Test Laboratory/ Approval Certificate No.: 1723



**Authorized by:**  
On behalf of World Advance Co., Ltd

*Casber Lu*

Casber Lu  
Manager



**Notes :**

- This report will be invalid if duplicated or photocopied in part.
- This report refers only to the specimen(s) submitted to test, and is invalid as separately used.



Cheng Shiu University  
Electrical Technology Center  
Environmental & Reliability Testing Laboratory  
No. 840, Chengcing Rd., Niasong Dist.,  
Kaohsiung City 83347, Taiwan, R.O.C.  
Tel: +886-7-733-7383 Fax: +886-7-733-7390  
Email: etc@gcloud.csu.edu.tw



## Test Report

### Degrees of protection provided by enclosures (IP Code)

Report No: IP-A109-143-E

Applicant: SINWAN ELECTRIC INDUSTRIES CO., LTD.  
8F, No.18, Lane 270, Sec.3, Beishen Rd,  
Shenkeng Dist, New Taipei City 222, Taiwan  
TEL: +886-2-2662-0728

Brand Name: SINWAN

Produce Name: DC Fan

Model Number: IP68 DC Fan Series

Received Date: 11 May 2020

Achieved Date: 22 May 2020

Test Site: No. 840, Chengcing Rd., Niasong Dist.,  
Kaohsiung City 83347, Taiwan, R.O.C.  
Environmental & Reliability Testing Laboratory,  
Electrical Technology Center, Cheng Shiu University

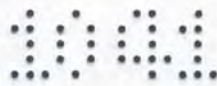
Test Item: **IP68M**  
Test Result: **PASS**



Authorized Representative

*Hsing-Feng Chen*  
H. F. Chen





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Electrical Technology Center  
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## Test Report

### Neutral Salt Spray Test

Report No: SS-A108-123-E

Applicant: Sinwan Electric Industries Co., Ltd.  
8F., No. 18, Ln. 270, Sec. 3, Beishen Rd., Shenkeng Dist.,  
New Taipei City 222, Taiwan  
TEL: +886-2-2664-9766

Manufacturer: SINWAN

Specimen: DC Fan

Model: SD1238 AP Series

Size: 120 (L) mm × 120 (W) mm × 38 (H) mm

Date: 08 October 2019 (Received)  
14 October 2019 (Test)  
14 November 2019 (Achieved)

Tester: Mark Ma

Test Site: No. 840, Chengcing Rd., Niasong Dist.,  
Kaohsiung City 83347, Taiwan (R.O.C.)  
Environmental & Reliability Testing Laboratory,  
Electrical Technology Center, Cheng Shiu University

Cheng Shiu University  
Electrical Technology Center

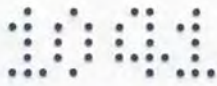


Authorized Representative

*Hsing-Feng Chen*

H. F. Chen



**1. Reference Standards:**

CNS 8886 Z8026 (2002), Methods of Salt Spray Testing

ASTM B117-11, Standard Practice for Operating Salt Spray (Fog) Apparatus.

GR-487-CORE (2013), 3.40.1 Salt Fog Test Procedures

**2. Test Apparatus and Instrument:**

Item	Model	Manufacturer	Serial No.
Salt Mist Chamber	TMJ-9701	T-Machine	T-01-021215
DC Power Supply	DSP-06.125.HR	iDRC	986294
Power Analyzer	WT210	YOKOGAWA	91NA13738
Tachometer	RM-1000	PROVA	08080042

**3. Test Conditions:**

Salt solution	Temperature in salt spray chamber	Quantity of fog	pH of salt solution
5 %	35 °C (95 °F)	1.0 ~ 2.0 ml/80 cm <sup>2</sup> /hr	6.5 ~ 7.2

**4. Test Time: 720 hours.****5. Test Procedure:**

The fan, not energized, is sprayed in the salt mist chamber for each 168 hours, then stop spraying and standstill for 1 hour. After that, energizing fan and measuring its electrical characteristics, including current, power and rotation speed.

**6. Test Description:**

The total test time is 720 hours, during that there are six measurements of electrical characteristics as shown in Table 1.