



Sinwan IP68, IP69K Fans

**Waterproof
Dustproof**

- IP68, IP69K Certified
- 30 days Salt Spray Certified (GR-487)
- Outdoor use
- High Performance
- High Quality
- Customization offering



About SINWAN Fan Motors

Sinwan Taipei, Taiwan, was established in 1976 and keeping expanding its engineering technic research / manufacturing / marketing service to include contracts with various prestigious companies in the world.

Sinwan offers full series of product combinations, including AC/DC Axial Fans, EC Fans (EC Fan energy-saving fan series), All Metal Fans, Centrifugal Fans, Crossflow Fans, Blowers, Skeleton Fan, and AC/DC/EC Motors, IP68, IP69K Cooling fans (IP68, IP69K Waterproof Fans / IP68, IP69K Dustproof Fans / IP68, IP69K Splash Proof Fans), and Fan Accessories (Metal Fan Guard, Plastic Fan Guard, Plastic Filter, Metal Screen, Ventilator Filter Kits, Power Cord) in both AC and DC market with varieties of functions. This wide selection enables our customers to choose the correct air moving device for all applications. "Practical outcomes through innovative means" is what we believe.

SINWAN products are tested in compliance with UL (Fans file no. E89520, Motors E329400), TUV (file no. 10013902), and CE international safety approvals, International Protection IP55, IP56, IP66, IP68, IP69K Rating.

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AC Metal Fan (IP68, IP69K)

Dustproof & Waterproof Fan Series

Frame Size (mm)	Sinwan Model No.	Voltage (VAC)	Freq. (HZ)	Referenced Speed (RPM)	Max. Airflow (CFM)	Max. Static Pressure (inch/H2O)	Noise Level db(A)
280x280x89	M280GAN11-1**	115	50/60	2800/3200	1150/1300	1.2/0.75	73
280x280x89	M280GAN22-1**	230	50/60	2800/3200	1150/1300	1.2/0.75	73
Dia.254x89	M254GAN11-1**	115	50/60	2800/3250	840/1000	0.78/0.60	70
Dia.254x89	M254GAN22-1**	230	50/60	2800/3250	840/1000	0.78/0.60	70
225x225x80	M225GAN11-1**	115	50/60	2700/3100	525/600	0.91/0.88	66
225x225x80	M225GAN22-1**	230	50/60	2650/3000	530/600	0.82/0.78	66
205x205x72	M205RAN11-1**	115	50/60	2800/3000	520/590	0.91/0.86	67
205x205x72	M205RAN22-1**	230	50/60	2800/3000	520/590	0.91/0.86	67
200x200x70	M200RAN11-1**	115	50/60	2800/3300	430/485	0.82/0.93	68
200x200x70	M200RAN22-1**	230	50/60	2800/3300	430/485	0.82/0.93	68
176x176x89	M180GAN11-1**	115	50/60	2750/3250	330/380	0.69/0.76	63
176x176x89	M180GAN22-1**	230	50/60	2750/3250	330/380	0.69/0.76	63
180x180x65	M180FAN11-1**	115	50/60	2750/3250	330/400	0.75/0.80	65
180x180x65	M180FAN22-1**	230	50/60	2750/3250	330/400	0.75/0.80	65

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

DC Plastic Fan (IP68, IP69K)

Dustproof & Waterproof Fan Series

Frame Size (mm)	Sinwan Model No.	Voltage (VDC)	Referenced Speed (RPM)	Max. Airflow (CFM)	Max. Static Pressure (inch/H2O)	Noise Level db(A)
Dia.254x88.9	SD254GAN-12SH**	12	2400	830	0.78	60
Dia.254x88.9	SD254GAN-24SH**	24	2500	850	0.83	62
Dia.200x70	SD200RAP-12SH**	12	3050	495	1.26	65
Dia.200x70	SD200RAP-24SH**	24	3300	505	1.30	69
180x180x65	SD180FAP-12SH**	12	3700	490	1.25	68
180x180x65	SD180FAP-24SH**	24	3800	500	1.30	69
172x150x51	SD175SAP-12SH**	12	4100	315	1.02	59
172x150x51	SD175SAP-24SH**	24	4150	320	1.05	60
120x120x38	SD1238PT-12SH**	12	4000	118	0.52	48
120x120x38	SD1238PT-24SH**	24	4000	118	0.52	48
120x120x25	SD1225PT-12H**	12	2900	86	0.24	42
120x120x25	SD1225PT-24H**	24	2900	86	0.24	42
92x92x38	SD9238PT-24SHH**	24	8000	166.4	1.9	72
92x92x38	SD9238PT-48SHH**	48	8000	166.4	1.9	72
92x92x25	SD9225PT-12H**	12	2900	50	0.24	35
92x92x25	SD9225PT-24H**	24	2900	50	0.24	33
80x80x38	SD8038PT-12H**	12	5000	69.3	0.58	49
80x80x38	SD8038PT-24H**	24	5000	69.3	0.58	49
80x80x32	SD8032PT-12H**	12	6000	75.3	0.73	50
80x80x32	SD8032PT-24H**	24	6000	75.3	0.73	50
80x80x25	SD8025PT-12H**	12	3300	40	0.23	33
80x80x25	SD8025PT-24H**	24	3300	40	0.23	33
60x60x25	SD6025PT-12H**	12	4000	25	0.22	30
60x60x25	SD6025PT-24H**	24	4000	25	0.22	30

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

AC Metal Fan (IP55,IP56)

Signal output : R/D Alarm, F/G Tachometer

 80x80x38mm Max.33 CFM M838AP series	 92x92x38mm Max.55 CFM M938AP series	 120x120x38mm Max.105 CFM M109AP series	 127x127x38.5mm Max.128 CFM M127AN series	 IP67 150x172x38.5mm Max.240 CFM M150AP (MS) series
 150x172x55mm Max.210 CFM M172EAP series	 IP67 150x172x55mm Max.250 CFM M172EAP (MS) series	 IP67 150x172x55mm Max.310 CFM M172EAP (C7) series	 Dia.172x51mm Max.215 CFM M172RAP series	 IP67 Dia.172x51mm Max.260 CFM M172RAP (MS)series
 IP67 Dia.172x51mm Max.310 CFM M172RAP (C7)series	 172x150x51mm Max.210 CFM M172SAP series	 IP67 172x150x51mm Max.250 CFM M172SAP (MS) series	 IP67 172x150x51mm Max.310 CFM M172SAP (C7) series	 IP68 IP69K 180x180x65mm Max.400 CFM M180FAN series
 IP68 IP69K 176x176x89mm Max.380 CFM M180GAN series	 IP68 IP69K 200x200x70mm Max.485 CFM M200RAN series	 IP68 IP69K 205x205x72mm Max.590 CFM M205RAN series	 IP68 IP69K 225x225x80mm Max.600CFM M225GAN series	 IP68 IP69K Dia.254x89mm Max.930CFM M254GAN(3) series
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;">  IP68 IP69K Dia.254x89mm Max.1000CFM M254GAN series </div> <div style="width: 48%;">  IP68 IP69K 280x280x89mm Max.1300CFM M280GAN series </div> </div>				

Speciafication

- Motor: Shaded pole or capacitor induction motor, external rotor
- Motor Protection: Thermal protector or Impedance protected
- Frame: Aluminum die-cast, black color or natural color
- Impeller: Metal blades
- IP Protection: IP55, IP56, IP68, IP69K optional request
- Bearing: Two ball bearings
- Rotation: CW or CCW view from label side
- Operating Temp: -30°C~+80°C (non-condensing)
- Storage Temp: -40°C~+100°C (at 65%RH)
- Life Expectancy: 50,000 hours at 55°C
- Dielectric Strength: Over 1 min. at 1,500 VAC, 50/60Hz
- Insulation Resistance: Over 100 MΩ at DC 500V
- Connection: Wire leads or terminal type

AC Metal Skeleton Fan (IP56,IP68,IP69K)



MK838(Dia.75x35mm)
Air Flow: 33~18 CFM



MK938(Dia.85x39mm)
Air Flow: 55~27 CFM



MK109(Dia.113x35mm)
Air Flow: 105~60 CFM



MK127(Dia.120x41mm)
Air Flow: 128~65 CFM



MK150 (MS)
(Dia.145x38mm)
Air Flow: 195~100 CFM



MK172E(Dia.140x56mm)
Air Flow: 210~95 CFM



MK180F(Dia.160x80mm)
Air Flow: 390~200 CFM



MK200R(Dia.172x79mm)
Air Flow: 485~160 CFM



MK205R(Dia.197x79mm)
Air Flow: 630~220 CFM



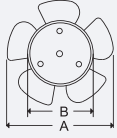
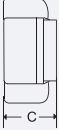
MK254(Dia.219x87mm)
Air Flow: 1000~370 CFM



MK280(Dia.245x100mm)
Air Flow: 1300~450 CFM

Information

Model No./Series	Dimensions AxBxC mm (inch)
MK838	75x59x35 (2.95x2.32x1.81)
MK938	85x59x39 (3.35x2.32x1.81)
MK109	113x59x35 (4.45x2.32x0.90)
MK150 (MS)	145x74.5x38 (5.51x2.93x1.20)
MK172E	140x74.5x56 (5.51x2.93x1.59)
MK180F	160x73x80 (6.30x2.87x1.93)
MK200RAN	172x88x79 (6.77x3.46x3.11)
MK205	197x88x79 (7.75x3.46x3.11)
MK254GAN	219x88x87 (8.62x3.46x3.43)
MK280GAN	245x88x100 (9.65x3.46x3.43)

- 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available.
- Dual speed High/Medium 1/2, Medium/Low 2/3 available on request.
- Sinwan reserves the right to change data and improve electrical & mechanical design without notice.

DC Plastic Skeleton Fan (IP68,IP69K)



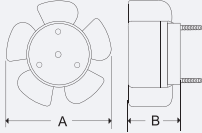
SDK1238



SDK180



SDK254



Sinwan Model Series	Impeller Size (AxB) mm	Airflow Range CFM	m ³ /min	Maix. Static Inch/H2O	Air Pressure mm/H2O
SDK6025 -Plastic Impeller	Dia.56x25	38~12	1.1~0.34	0.22~0.09	5.6~2.3
SDK8025 -Plastic Impeller	Dia.72x25	48~22	1.36~0.62	0.23~0.10	5.8~2.5
SDK9225 -Plastic Impeller	Dia.82x25	57~25	1.6~0.71	0.24~0.15	6.1~3.8
SDK1225 -Plastic Impeller	Dia.108x30.5	86~45	2.44~1.27	0.24~0.13	6.1~3.3
SDK1238 -Plastic Impeller	Dia.108x36	105~65	2.83~1.84	0.28~0.15	7.1~3.8
SDK180 -Plastic Impeller	Dia.163x66	405~240	11.5~6.80	0.71~0.22	18.8~5.6
SDK254 -Plastic Impeller	Dia.215x68	830~340	23.5~9.63	0.78~0.23	19.8~5.8

Specification

- Motor: Microprocessor cpu control or standard brushless DC, auto cutoff/restart, locking & polarity protected
- Optional Functions: R/D Alarm, F/G Tachometer, Speed control NTC thermistor, PWM or control voltage speed setting
- Motor Case: Aluminum die cast, natural color treatment or black color cosmetics
- Impeller: Glass fiber reinforced PBT thermoplastic, UL94V-0 impeller
- Bearing System: Two high precision permanently lubricated ball bearings
- Operating Temp: Ambient non-condensing acceptable range 30C~+70C
- L10 Life: MTBF Formula L10 indoor life test 120K hours at 35C, 40K hours at 60C
- Dielectric Strength: 500VAC/sec., Max leakage 0.5mA

Sinwan EC Fan



80x80x25mm



120x120x25mm



171x151x51.5mm



206x206x72.5mm

EC Plastic Fan

Dustproof & Waterproof IP55, IP56, IP68 Optional request

Frame Size (mm)	Sinwan Model No.	Voltage (VAC)	Input Power (Watt)	Referenced Speed (RPM)	Max. Airflow (CFM)	Max. Static Pressure (Inch/H ₂ O)	Noise Level db(A)
280x280x90	SE280GAP-22-HH**	220	110/110	2500	1150	0.81	69
Dia.254x89	SE254AP-22-HH**(H)	220	40/50(65)	2800	830	0.98	70
206x206x72.5	SE205AP-22-HHH**	220	60/75(66)	3250	630	1.1	65
202x202x60.5	SE200AP-22-HH**	220	45/55(53)	3000	500	1.1	63
171x151x51.5	SE1725AP-22-HHH**	220	26/35(56)	5000	360	1.62	68
171x151x51.5	SE1725AP-FR-HH** (MS)	110/220	18/16(12.5)	3000	220	0.8	55
120x120x38	SE1238PT-FR-H**	110/220	10/8(6.5)	3000	133.8	0.42	47
120x120x25	SE1225PT-FR-H**	110/220	8/6(2.8)	3000	80	0.22	49
92x92x38	SE938PT-FR-HHH**	110/220	11/9(7.9)	4200	85	0.51	52
92x92x38	SE938PT-FR-HH**	110/220	7/5(2.2)	3000	60	0.28	43
92x92x32	SE932PT-FR-H**	110/220	8/6(2.1)	3000	58	0.24	44
92x92x25	SE925PT-FR-H**	110/220	8/6(4)	2600	56	0.16	36
80x80x38	SE838PT-FR-HH**	110/220	11/9(6.3)	4500	60	0.49	50
80x80x25	SE825PT-FR-H**	110/220	6/4(2.2)	3000	42	0.21	38

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

EC Centrifugal Fan



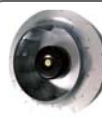
Dia.400x201.5mm
Max.1645 CFM
MFE400WAN



Dia.355x195mm
Max.2120 CFM
MFE355WAN



Dia.310x189mm
Max.1700 CFM
MFE310VAN (189)



Dia.280x131mm
Max.810 CFM
MFE280KAN



Dia.250x131mm
Max.660 CFM
SFE250KAN



Dia.225x125mm
Max.590 CFM
SFE225KAN



Dia.220x97mm
Max.340 CFM
SFE220HAN



Dia.190x95mm
Max.360 CFM
SFE190HAN



Dia.175x96.5mm
Max.350 CFM
SFE175HAN



Dia.133x110mm
Max.180 CFM
SFE133KAN

AC Plastic Fan

 80x80x25.5mm 25~16 CFM S825AP series	 R/D F/G 80x80x38mm 31~17 CFM S80AP series	 92x92x25.5mm 35~21 CFM S92AP series	 R/D F/G 92x92x38.5mm 52~26 CFM S938AP series	 120x120x25mm 75~42 CFM S125AP series
 R/D F/G 120x120x38.5mm 105~43 CFM S109AP series	 127x127x38.5mm 130~55 CFM S127AP series	 172x150x38.5mm 210~105 CFM S150AP series	 R/D F/G 172x150x51mm 235~100 CFM S172SAP series	 160x160x62mm Max.345 CFM S160AP series
 172x150x51mm Max.310 CFM S175SAP series	 Dia.172x51mm Max.320 CFM S172RAP(7) series	 R/D F/G 150x172x55mm Max.265 CFM S172EAP (7) series	 R/D F/G 176x176x89mm 410~190 CFM S180GAP series	 R/D F/G 180x180x65mm 405~120 CFM S180FAP series
 R/D F/G 200x200x70mm 510~190 CFM S200RAP series	 R/D F/G 205x205x72mm 660~310 CFM S205AP series	 R/D F/G 225x225x80mm Max.692 CFM S225AP series	 R/D F/G Dia.254x89mm Max.860 CFM S254RAP series	 280x280x88.9mm 1450~450 CFM S280RAP series

AC Centrifugal Fan

AC Centrifugal Fans Sizes : Ø133~355mm

Max Airflow : 165~1,300CFM



PFA13RAN series



PFA17RAN series



PFA225JAN series



MFA355KAN series

DC Metal Fan (IP55,IP56,IP68)

Dustproof & Waterproof Fan Series

Frame Size (mm)	Sinwan Model Series	Voltage (VDC)	Referenced Max. Speed (RPM)	Max. Airflow (CFM)	Max. Static Pressure (inch/H2O)	Noise Level db(A)
280x280x88.9	MD280GAN -Metal Impeller	12V,24V,48V	Max.2550 RPM	Max.1200 CFM	0.90~0.51	72~48
Dia.254x88.9	MD254GAN -Metal Impeller	12V,24V,48V	Max.3000 RPM	Max.980 CFM	1.1~0.42	72~40
Dia.254x88.9	MD254AP -Metal Impeller	12V,24V,48V	Max.3000 RPM	Max.820 CFM	0.59~0.25	66~36
225x225x80	MD200AN -Metal Impeller	12V,24V,48V	Max.3900 RPM	Max.815 CFM	1.15~0.58	68~41
200x200x70	MD200AP -Metal Impeller	12V,24V,48V	Max.3900 RPM	Max.510 CFM	1.25~0.65	68~43
180x180x65	MD180FAP -Metal Impeller	12V,24V,48V	Max.3800 RPM	Max.480 CFM	0.88~0.38	66~38
172x150x55	MD175EAP -Metal Impeller	12V,24V,48V	Max.4400 RPM	Max.335 CFM	1.15~0.49	66~37
Dia.172x51	MD175RAP -Metal Impeller	12V,24V,48V	Max.4350 RPM	Max.325 CFM	1.25~0.56	66~36
172x150x51	MD175SAP -Metal Impeller	12V,24V,48V	Max.4350 RPM	Max.325 CFM	1.25~0.58	66~37
172x150x38.5	MD173AP -Metal Impeller	12V,24V,48V	Max.4300 RPM	Max.270 CFM	1.03~0.5	64~39
120x120x38	MD1238AP -Metal Impeller	05V,12V,24V,48V	Max.3800 RPM	Max.140 CFM	0.45~0.35	47~35

Specification

- Motor: Microprocessor brushless DC Motor, auto cutoff, auto restart
- Motor Protection: Electronically protected, polarity protected
- Frame: Aluminum die-cast, black color or natural color
- Impeller: Metal blades
- IP Protection: IP55, IP56, IP68 optional request
- Bearing: Two ball bearings
- Rotation: CW or CCW view from label side
- Operating Temp: -20°C~+65°C (non-condensing)
- Storage Temp: -40°C~+80°C (at 65%RH)
- Life Expectancy: L10 50K hours at 50°C



DC Centrifugal Fan

DC Centrifugal Fans Sizes : Ø133~250mm

Max Airflow : 257~920CFM



Motor Functions : Tacho F/G, Alarm R/D.
Speed control : Thermal NTC-S/C, PWM, External voltage control speed- S/V.

DC Plastic Fan

 25x25x10mm 2.8~1.5 CFM SD2510PT series	 30x30x10mm 5.1~2.5 CFM SD3010PT series	 40x40x10mm 5~2.5 CFM SD4010PT series	 40x40x20mm 9.7~4.8 CFM SD4020PT series	 50x50x9mm 12~8 CFM SD5009PT series
 50x50x12mm 14~7 CFM SD5012PT series	 50x50x15mm 15~11 CFM SD5015PT series	 60x60x11mm 15~10 CFM SD6010PT series	 60x60x15mm 26~14 CFM SD6015PT series	 60x60x20mm 23~10 CFM SD6020PT series
 60x60x25mm 38~12 CFM SD6025PT series IP68 IP69K	 80x80x15mm 39~28 CFM SD8015PT series	 80x80x20mm 40~27 CFM SD8020PT series	 80x80x25mm 64~22 CFM SD8025PT series IP68 IP69K	 92x92x25mm 66~25 CFM SD9225PT series IP68 IP69K
 92x92x38mm 75~58 CFM SD938AN series	 120x120x25mm 86~45 CFM SD1225PT series	 120x120x25mm 120~70 CFM SD1225PT (MS) series IP68 IP69K	 120x120x32mm 112~62 CFM SD1232AN series	 120x120x38mm 180~103 CFM SD1238PT (MS) series IP68 IP69K
 120x120x38.5mm 135~70 CFM SD1238AP(7) series	 127x127x38.5mm 145~86 CFM SD127AN series	 172x150x38.5mm 255~120 CFM SD173AP series	 172x150x51mm 320~125 CFM SD175SAP series IP68 IP69K	 Dia.172x51mm 320~130 CFM SD175RAP series
 150x172x55mm 300~150 CFM SD175EAP series	 180x180x65mm 500~215 CFM SD180FAP series IP68	 200x200x70mm 505~280 CFM SD200RAP series	 Dia.254x88.9mm 850~350 CFM SD254AP series IP68	 280x280x88.9mm 1200~780 CFM SD280GAN series

AC & DC & EC & 3P Fan Motors / Ventilator

SINWAN OEM/ODM/OBM Manufacturing, Engineering & Marketing Services

AC & Brushless DC Motors 馬達

Input available 3~600Watts



Skeleton Axial Fans 無框扇

Dia.2.4~12" / 60~305mm

Airflow 20~1,500CFM / 0.6~42 M³/Min.



Ribbing Axial Fans 網架扇

Dia.3~12" / 80~305mm

Airflow 30~1,500CFM / 0.8~43 M³/Min.



Box Axial Fans 軸流扇

Dia.1~13" / 20~335mm

Airflow 3~1,450CFM / 0.1~41 M³/Min.



Blowers & Cross Fans 鼓風機 & 橫流扇

Blowers Sizes : 2.5~13" / 60~330mm

Airflow 6~380CFM / 0.17~10.8 M³/Min.



Cross Fans Sizes : Fan blades ϕ 1.2~3.5" / ϕ 30~90mm

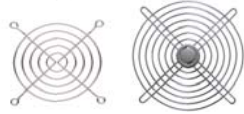
Airflow available : 7~730CFM / 0.2~21 M³/Min.



Fan Accessories

Metal Fan Guards 鐵網 Sizes : 1~11" / 25~280mm

Steel wires, electroplated finish cosmetics, nickel chrome plated, bright color.
 Black color electro deposit available on request.
 Welding joints strength to meet UL Standards minimum 100kgs (220 lbs) separation force.
 Patterned push-on type wire form metal guards are available on request.
 Customer's design is acceptable & welcome!



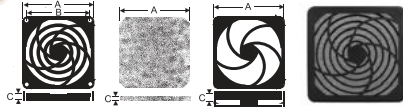
Plastic Fan Guards 塑膠網 Sizes : 1.57~6" / 40~172mm

Glass fiber reinforced ABS UL94V-0 for thru hole types (GxxxP & GxxxP4 series)
 Reinforced thermoplastic Nylon UL94-HB for push-on types (GxxxP2 series)
 Quality and safety guards full range from 25-300mm (1-11 inch).
 Customers' designs and special specifications are welcome!



Plastic Filter Kits 塑膠濾網 Sizes : 1.57~6" / 40~172mm

Guard
 Retainer
 Media 30 or 45 PPI
 Guard + Retainer + Media 30 PPI
 Guard + Retainer + Media 45 PPI



Metal Fan Screens 金屬濾網 Sizes : 2.36~6" / 60~172mm

General Description

- Tightly woven steel corrugated mesh screen encased in a formed aluminum frame (*Woven aluminum corrugated mesh screen on request)
- Screen hole mesh 30 PPI normally
- Built for ruggedness and durability, cleanable and easy for service
- Decreasing noise level while creating low air restriction
- To provide maximum airflow with effective filtering
- Different finishes are available for cosmetic purposes



Ventilator Filter Kits 風機濾網組 For Fan Sizes : 3.1~11" / 80~280mm

RFG (Retainer+Filter+Grille=Prown RFG)

Specifications:

- Grille & Retainer (G & R): Made of thermoplastic ABS resin, rated UL94V-0, UV resistance.
- Filter Media (F): Made of polyester fiber. Thickness 10mm.



A Type (hinged type)



B Type (slide type)



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