



劃時代
的革新

DC Fans
軸流直流風機

PART-1.2



Specialists
in fan design &
Production

獨特的風機設計
與生產工藝

KAKU®



PART-1.2

BRUSHLESS DC FAN

GENERAL SPECIFICATION (軸流DC風機特性)

Electric srlength

>>5mA max at 1500VAC for 1min between lead wire and frame

Insulation resistance

>>10M ohm between lead wire and frame (DC 500V)

Life expectancy (ball bearing)

>>50,000hrs min at 40°C /L 10 relative humidity 65%+/-20%

Life expectancy (sleeve bearing)

>>30,000hrs min at 40°C /L 10 relative humidity 65%+/-20%

Life expectancy (1ball bearing + 1sleeve bearing)

>>40,000hrs min at 40°C /L 10 relative humidity 65%+/-20%

Operation temperature

>>-10°C ~+75°C (+14°F~167°F), normal

*The technical characteristics given in this catalogue are standard plastic, 12VDC unless specified.

Storage temperature

>>-40°C ~+75°C (-40°F~167°F)

Protection

>>motor protection and polarity protection

Lead wire

>>UL1571AWG28

Plastic material

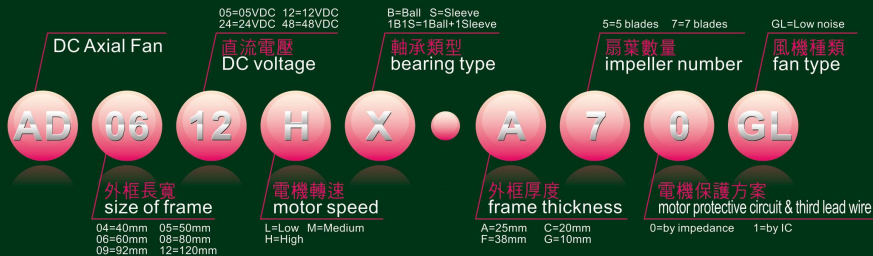
>>black PBT (UL94V-0) glass filled



DESCRIPTION OF AXIAL DC FAN CODE

(軸流DC風機型號說明)

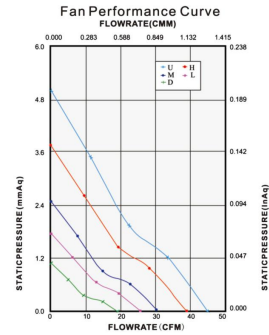
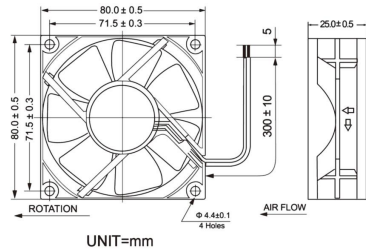
For example: AD0612HX-A70GL





Frame: Plastic (UL: 94V-0)
 Impeller: Plastic (UL: 94V-0)
 Bearing: Ball / Sleeve / 1B1S
 Lead wire: UL1007AWG24
 Operating TEMP*: -10°C~70°C
 Voltage available: 12V, 24V
 * -10°C~60°C for fans with sleeve / ball combination bearings.

Spot cooling, also suitable for small space requirements, laptops PC and notebook, etc.,



Frame Size	Model	Bearing Type	Voltage (V)	Current (A)	Power (W)	Speed (rpm)	(CMM)	(CFM)	(InAq)	(mmAq)	Noise (dB(A))	Weight (g)
80 × 80 × 25	AD0812HB-A71GL	○ ●	12	0.25	3.00	3010	1.072	38.07	0.144	3.61	34.4	86
	AD0812MB-A71GL	○ ●	12	0.15	1.80	2440	0.855	30.37	0.109	2.73	28.3	86
	AD0812LB-A71GL	○ ●	12	0.12	1.44	2030	0.761	27.00	0.073	1.83	22.5	86
	AD0824HB-A71GL	○ ●	24	0.16	3.84	3010	1.072	38.07	0.144	3.61	34.4	86
	AD0824MB-A71GL	○ ●	24	0.10	2.40	2440	0.855	30.37	0.109	2.73	28.3	86
	AD0812HB-A70GL(T)	○ ●	12	0.25	3.00	3010	1.098	38.99	0.150	3.75	34.4	86
	AD0812MB-A70GL(T)	○ ●	12	0.15	1.80	2500	0.870	30.87	0.101	2.53	28.3	86
	AD0812LB-A70GL(T)	○ ●	12	0.12	1.44	2100	0.737	26.16	0.071	1.78	22.5	86
	AD0824HB-A70GL(T)	○ ●	24	0.16	3.84	3100	1.098	38.99	0.150	3.75	34.4	86
	AD0824MB-A70GL(T)	○ ●	24	0.10	3.40	2500	0.870	30.87	0.101	2.53	28.3	86
	AD0824LB-A70GL(T)	○ ●	24	0.09	2.16	2100	0.737	26.16	0.071	1.78	22.5	86

Bearing Type: ○-Ball; ●-Sleeve; ○-1B1S

AD 9225 SERIES

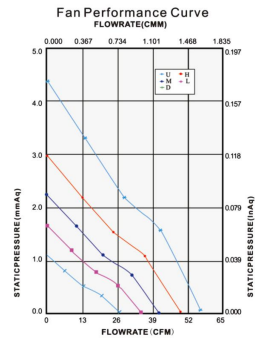
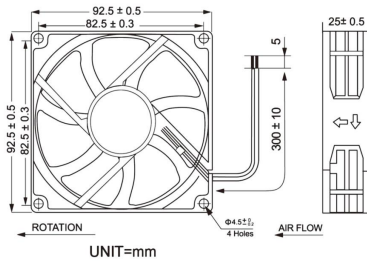
AD 9225 SERIES

54



Frame: Plastic (UL: 94V-0)
 Impeller: Plastic (UL: 94V-0)
 Bearing: Ball / Sleeve
 Lead wire: UL1007AWG24
 Operating TEMP*: -10°C~70°C
 Voltage available: 12V, 24V, 48V

Spot cooling, also suitable for small space requirements, laptops PC and notebook, etc..



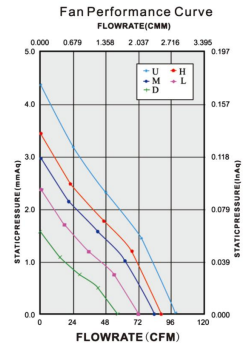
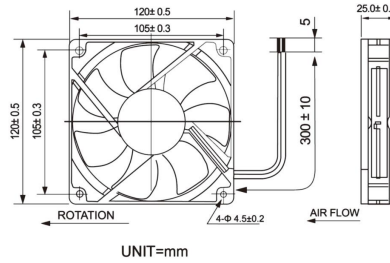
Frame Size	Model	Bearing Type	Voltage (V)	Current (A)	Power (W)	Speed (rpm)	(CMM)	(CFM)	(InAq)	(mmAq)	Noise (dB/A)	Weight (g)
92 × 92 × 25	AD0912HB-A71GL	○ ●	12	0.25	3.00	2900	1.491	52.50	0.133	3.37	35.0	101
	AD0912MB-A71GL	○ ●	12	0.17	2.04	2600	1.340	47.20	0.108	2.74	32.7	101
	AD0912LB-A71GL	○ ●	12	0.12	1.44	2300	1.064	37.76	0.078	1.94	29.8	101
	AD0924HB-A71GL	○ ●	24	0.25	3.60	2900	1.491	52.50	0.133	3.37	35.0	101
	AD0924MB-A71GL	○ ●	24	0.12	2.88	2600	1.340	47.20	0.108	2.74	32.7	101
	AD0924LB-A71GL	○ ●	24	0.08	1.92	2300	1.181	41.60	0.087	2.20	29.8	101
	AD0948HB-A71GL	○ ●	48	0.13	6.24	2900	1.491	52.50	0.133	3.37	35.1	101
	AD0912HB-A70GL(T)	○ ●	12	0.25	3.00	2900	1.491	52.50	0.133	3.37	35.0	101
	AD0912MB-A70GL(T)	○ ●	12	0.17	2.04	2400	1.235	43.50	0.092	2.33	31.3	101
	AD0912LB-A70GL(T)	○ ●	12	0.13	1.56	2000	1.022	36.00	0.063	1.60	25.0	101
	AD0924HB-A70GL(T)	○ ●	24	0.15	3.60	2900	1.491	52.50	0.133	3.37	35.0	101
	AD0924MB-A70GL(T)	○ ●	24	0.12	2.88	2400	1.235	43.50	0.092	2.33	31.0	101
	AD0924LB-A70GL(T)	○ ●	24	0.08	1.92	2000	1.022	36.00	0.063	1.60	26.5	101

Bearing Type: ○-Ball; ●-Sleeve



Frame: Plastic (UL: 94V-0)
Impeller: Plastic (UL: 94V-0)
Bearing: Ball / Sleeve
Lead wire: UL1007AWG24
Operating TEMP*: -10°C~70°C
Voltage available: 12V, 24V

Spot cooling, also suitable for small space requirements, laptops PC and notebook, etc.,



Frame Size	Model	Bearing Type	Voltage (V)	Current (A)	Power (W)	Speed (rpm)	(CMM)	(CFM)	(InAq)	(mmAq)	Noise (dB(A))	Weight (g)
120 × 120 × 25	AD1212HB-A71GL(OTC)	○●	12	0.37	4.44	2200	2,499	88.71	0.138	3.35	39.1	156
	AD1212MB-A71GL(OTC)	○●	12	0.33	3.96	2050	2,344	83.21	0.119	2.97	38.0	156
	AD1212LB-A71GL(OTC)	○●	12	0.24	2.88	1800	2,028	72.00	0.095	2.37	34.4	156
	AD1224HB-A71GL(OTC)	○●	24	0.19	4.56	2200	2,499	88.71	0.138	3.45	39.1	156
	AD1224MB-A71GL(OTC)	○●	24	0.17	4.08	2050	2,344	83.21	0.119	2.97	38.0	156

OTC: 晶體版IC Bearing Type: ○-Ball; ●-Sleeve

AD 12038 SERIES

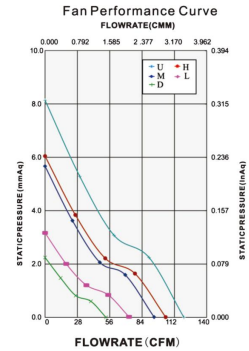
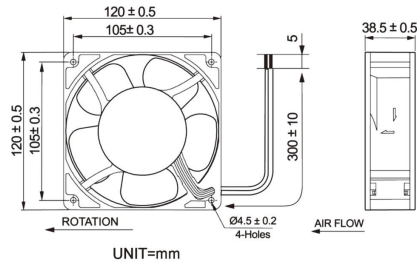
AD 12038 SERIES

56



Frame: Plastic (UL: 94V-0)
 Impeller: Plastic (UL: 94V-0)
 Bearing: Ball / Sleeve
 Lead wire: UL1007AWG24
 Operating TEMP*: -10°C~70°C
 Voltage available: 12V, 24V, 48V

Spot cooling, also suitable for small space requirements, laptops PC and notebook, etc.,



Frame Size	Model	Bearing Type	Voltage (V)	Current (A)	Power (W)	Speed (rpm)	(CMM)	(CFM)	(InAq)	(mmAq)	Noise (dB(A))	Weight (g)
120 × 120 × 38	AD1212HB-F51	○ ●	12	0.50	6.00	2800	2.994	104.80	0.242	6.05	42.8	297
	AD1212MB-F51	○ ●	12	0.35	4.20	2540	2.685	94.00	0.227	5.67	41.0	297
	AD1212LB-F51	○ ●	12	0.24	2.88	1950	2.065	72.30	0.127	3.17	32.9	297
	AD1224HB-F51	○ ●	24	0.32	7.68	2800	2.994	104.80	0.342	6.05	42.8	297
	AD1224MB-F51	○ ●	24	0.23	5.52	2540	2.685	94.00	0.227	5.67	41.0	297
	AD1224LB-F51	○ ●	24	0.14	3.36	1950	2.065	72.30	0.127	3.17	32.9	297
	AD1248HB-F51	○ ●	48	0.20	9.60	2800	2.994	104.80	0.342	6.05	42.8	297
	AD1248MB-F51	○ ●	48	0.14	6.72	2540	2.685	94.00	0.227	5.67	41.0	297
	AD1248LB-F51	○ ●	48	0.10	4.80	1950	2.065	72.30	0.127	3.17	32.9	297

Bearing Type: ○-Ball; ●-Sleeve