

勝特力材料 886-3-5753170
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[Http://www.100y.com.tw](http://www.100y.com.tw)

SUNON

Magnetic Levitation System (MS)

Fan • Blower • Cap Fan • Dish Fan



SUNON Magnetic Plate
the Magic of Magic
Magnetic Plate, the Heart of SUNON MS Design
Tells You the Secret Why a Motor Could Operate Defect-free
Magnetic Plate, SUNON's Exclusive Innovation
U.S. PAT. 6,097,120

 **SUNON**

SUNON

Magnetic Levitation System Fan (MS)

Fan Motor Domination

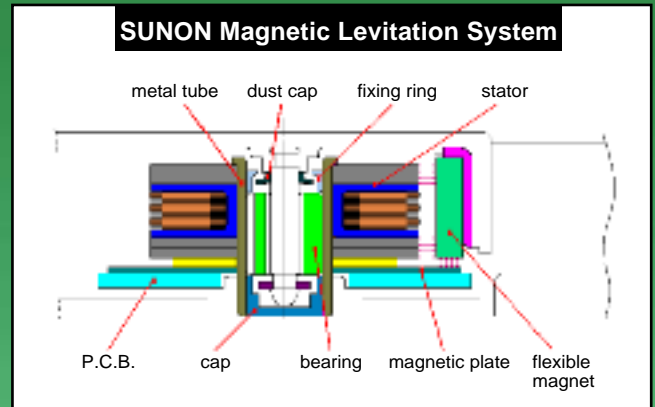
A Stunning New Tech From SUNON~ Magnetic Levitation System] MS]^
 Noise-Free, Vibration-Free, Super Long Life

Sunon has recently introduced its latest innovation called Magnetic Levitation System (MS) and soon causes great impact on motor field. MS design can collocate with all kinds of traditional motors using with sleeve bearing or ball bearing, helping fan motors creating an unprecedented vibration-free, noise-free operation environment, which is in urgent necessity for thermal management of PC and IT industry.

The principle of SUNON MS design comes from the utilizing of magnetic force induced by the existing magnet inside the hub and the magnetic plate added to the PCB of the fan. When the fan is operating, the perfectly balanced rotor assembly would rotate in nearly perfect circular motion in a consistent orbit and the center of rotation of the rotor shaft would be the true centerline of the shaft and the bearing assembly.

This phenomenon eliminates any rotational vibration and rubs between the shaft and the inner surface of the bearing in any resting position. Accordingly, this MS design creates unprecedented vibration-free and therefore noise-free operation condition for the fan.

For traditional fan motors, with either sleeve or ball bearing, in addition to their known advantages and disadvantages, there are some shortcomings as shown in the following table :



Because of so many not-easy-to-resolve disadvantages in traditional fan motors, Sunon took the challenge and has devoted many years in research and development on new motor structure for eliminating such disadvantages. As a result, MS design, the most revolutionary technology, once again wins Sunon's reputation.

What Makes MS Magic

When the motor with the MS technology is in operation, magnetic force between the permanent magnet in the hub and the magnetic plate mounted on the PCB helps to attract the impeller rotor towards the end point of shaft. The weight of the rotor is entirely neutralized by the magnetic force and enables the shaft turning without being affected by the gravitational force due to the dead weight of the rotor assembly, pivotally held in the bearing.

In this way, a constant distance between bearing and shaft is maintained naturally without causing any contacts between the two surfaces.

Because the shaft rotates evenly in a constant orbit and the rotor is held at fixed center line of rotation, no matter what the position is, during the operation of fan, there is no friction or noise created, and no slanting and wobbling happened, which means the bearing life is extended much longer.

In addition for sleeve and ball bearings, MS also works well with Sunon's another own invention, the Vapo bearing, which features its specially treated inner surface to resist abrasions. With the combination of the MS design and Vapo bearing, all the advantages of ball and sleeve bearings are maintained but defects eradicated. In addition, Sunon's Vapo bearing with MS is capable of operating at temperature even higher than 70°C.

	Deficiency of Traditional Motors	SUNON MS Solution MS+ Vapo Bearing
Sleeve Bearing	<ul style="list-style-type: none"> Weight of rotor is entirely loaded to the shaft, abrasive rotation between shaft and bearing will result in irregular and rough surface on inner surface of bearing bore. The fan motor rotation becomes not smooth and in return causes operation noise and shortens fan life. The oil ring and mylar washer not only create excess friction area but also prevent the high temperature gas evaporated from the lubricating oil from escaping to outside the fan assembly. Such gas if is not released appropriately before being solidified, would become nitride particles and rest in the gap between shaft and bearing bore. This causes the rotor stuck and induces excessive noise. 	<ul style="list-style-type: none"> Entire weight of rotor assembly is totally neutralized by magnetic force in any rest position, keeping motor rotates evenly at a fixed center line and keeps a consistent distance from inner surface of bearing. No traditional rubs and noise occurred. Oil ring, washer, and lubricant for bearing assembly are no longer used in MS structure. Hence no more oil leakage or rotor stuck problem.
Ball Bearing	<ul style="list-style-type: none"> When fan motor is operating, the steel balls inside generate higher rotational noise than that of sleeve bearing Construction of Ball bearing is quite weak and unable to absorb external impact and/or vibration therefore would easily be damaged and result in louder rotational noise. 	<ul style="list-style-type: none"> MS design allows the fan operates in temperature higher than 70°C.

SUNON Magnetic Levitation System(MS)

2 Phase Half Wave Motor Series



Fan

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Size(mm)	Model	★ Volt.	WATTS	RPM	CFM	Inch H ₂ O	dBA
20x20x10	KD0501PFB1-8 MS	○ 5VDC	0.8	17000	1.5	0.33	28
	KD0501PFB2-8 MS	○ 5VDC	0.5	14000	1.1	0.21	26
	KD0501PFB3-8 MS	○ 5VDC	0.3	10000	0.8	0.13	23
	KD0501AFB1-8 MS	○ 5VDC	0.8	17000	1.5	0.33	28
	KD0501AFB2-8 MS	○ 5VDC	0.5	14000	1.1	0.21	26
25x25x6	KD0502PEV1-8 MS.N	● 5VDC	0.8	13000	3.0	0.22	31
	KD0502PEV2-8 MS.N	○ 5VDC	0.6	11500	2.7	0.18	26
	KD0502PEV3-8 MS.N	● 5VDC	0.4	7000	1.4	0.07	14.5
	KD0502PEB1-8 MS.N	○ 5VDC	0.8	13000	3.0	0.22	31
	KD0502PEB2-8 MS.N	○ 5VDC	0.6	11500	2.7	0.18	26
25x25x10	KD0502PEB3-8 MS.N	○ 5VDC	0.4	7000	1.4	0.07	14.5
	KD0502PFB1-8 MS.V	○ 5VDC	0.9	13000	3.5	0.25	26
	KD0502PFB2-8 MS.V	○ 5VDC	0.6	10000	3.0	0.18	25
	KD0502PFB3-8 MS.V	○ 5VDC	0.35	7500	2.3	0.11	24
	KD0502AFB1-8 MS.V	○ 5VDC	0.9	13000	3.5	0.25	26
25x25x15	KD0502AFB2-8 MS.V	○ 5VDC	0.6	10000	3.0	0.18	25
	KD0502AFB3-8 MS.V	○ 5VDC	0.35	7500	2.3	0.11	24
	KD0502PHB1-8 MS	○ 5VDC	0.8	12000	3.7	0.28	29
	KD0502PHB2-8 MS	○ 5VDC	0.6	10000	3.1	0.16	22
	KD0502PHB3-8 MS	○ 5VDC	0.3	7000	2.2	0.11	16
30x30x6	KD0503PEV1-8 MS.N	● 5VDC	0.9	9500	4.9	0.14	28
	KD0503PEV2-8 MS.N	● 5VDC	0.55	8000	3.7	0.09	23
	KD0503PEV3-8 MS.N	● 5VDC	0.4	5000	2.2	0.06	14.5
	KD0503PEB1-8 MS.N	○ 5VDC	0.9	9500	4.9	0.14	29
	KD0503PEB2-8 MS.N	○ 5VDC	0.55	8000	3.7	0.09	24
30x30x10	KD0503PEB3-8 MS.N	○ 5VDC	0.4	5000	2.2	0.06	14.5
	KD0503PFB1-8 MS.V	○ 5VDC	1.0	9500	5.5	0.15	25
	KD0503PFB2-8 MS.V	○ 5VDC	0.65	8000	4.6	0.11	22.5
	KD0503PFB3-8 MS.V	○ 5VDC	0.35	5500	3.6	0.07	20
	KD0503AFB1-8 MS.V	○ 5VDC	1.0	9500	5.5	0.15	25
30x30x15	KD0503AFB2-8 MS.V	○ 5VDC	0.65	8000	4.6	0.11	22.5
	KD0503AFB3-8 MS.V	○ 5VDC	0.36	5500	3.6	0.07	20
	KD0503PHB1-8 MS	○ 5VDC	0.9	8500	6.0	0.16	27
	KD0503PHB2-8 MS	○ 5VDC	0.6	7000	4.8	0.11	22
	KD0503PHB3-8 MS	○ 5VDC	0.35	5500	3.2	0.10	17
35x35x6	KD0535PEV1-8 MS.N	● 5VDC	0.9	6800	5.0	0.07	23
	KD0535PEV2-8 MS.N	● 5VDC	0.6	5800	4.3	0.055	19
	KD0535PEV3-8 MS.N	● 5VDC	0.4	4500	3.0	0.04	13
	KD0535PEB1-8 MS.N	○ 5VDC	0.9	6800	5.0	0.07	24
	KD0535PEB2-8 MS.N	○ 5VDC	0.6	5800	4.3	0.055	20
35x35x10	KD0535PEB3-8 MS.N	○ 5VDC	0.4	4500	3.0	0.04	13
	KD0535PFB1-8 MS	○ 5VDC	1.0	7500	6.5	0.12	25.5
	KD0535PFB2-8 MS	○ 5VDC	0.7	6000	5.2	0.08	21
	KD0535PFB3-8 MS	○ 5VDC	0.35	4500	3.8	0.05	18
	40x40x6	KD0504PEV1-8 MS	● 5VDC	1.05	7000	5.9	0.10
KD0504PEV2-8 MS		● 5VDC	0.55	6000	5.3	0.07	28
KD0504PEB1-8 MS		○ 5VDC	1.05	7000	5.9	0.10	32
KD0504PEB2-8 MS		○ 5VDC	0.55	6000	5.3	0.07	28
40x40x8		KD0504PDV2-8 MS	● 5VDC	0.7	6600	5.4	0.12
	KD0504PDB2-8 MS	○ 5VDC	0.7	6600	5.4	0.12	33
	KD1204PDV2-8 MS	● 12VDC	0.7	6600	5.4	0.12	32.5
	KD1204PDB2-8 MS	○ 12VDC	0.7	6600	5.4	0.12	33
	40x40x10	KD1204PFVX MS	● 12VDC	1.2	8800	8.6	0.23
KD1204PFV1 MS		● 12VDC	1.0	7400	7.3	0.18	30
KD1204PFV2 MS		● 12VDC	0.6	5500	4.9	0.12	25
KD1204PFBX MS		○ 12VDC	1.2	8800	8.6	0.23	37
KD1204PFB1 MS		○ 12VDC	1.0	7400	7.3	0.18	31
KD1204PFB2 MS	○ 12VDC	0.6	5500	4.9	0.12	26	

Size(mm)	Model	★ Volt.	WATTS	RPM	CFM	Inch H ₂ O	dBA	
40x40x20	KD1204PKVX MS	● 12VDC	1.6	8200	10.8	0.27	27.5	
	KD1204PKV1 MS	● 12VDC	1.2	7200	8.9	0.21	25.5	
	KD1204PKV2 MS	● 12VDC	0.8	6200	7.7	0.16	21	
	KD1204PKV3 MS	● 12VDC	0.6	5200	6.3	0.11	18	
	KD1204PKBX MS	○ 12VDC	1.6	8200	10.8	0.27	29	
	KD1204PKB1 MS	○ 12VDC	1.2	7200	8.9	0.21	26	
	KD1204PKB2 MS	○ 12VDC	0.8	6200	7.7	0.16	21.5	
	KD1204PKB3 MS	○ 12VDC	0.6	5200	6.3	0.11	18.5	
	45x45x10	KD1245PFVX MS	● 12VDC	1.3	7500	10.2	0.20	36
KD1245PFV1 MS		● 12VDC	1.0	6600	8.9	0.15	31	
KD1245PFV2 MS		● 12VDC	0.7	5300	7.2	0.12	25	
KD1245PFBX MS		○ 12VDC	1.3	7500	10.2	0.20	37	
KD1245PFB1 MS		○ 12VDC	1.0	6600	8.9	0.15	33	
KD1245PFB2 MS		○ 12VDC	0.7	5300	7.2	0.12	27	
50x50x10		KD1205PFVX MS	● 12VDC	1.3	6500	12.4	0.17	36
		KD1205PFV1 MS	● 12VDC	1.0	5600	10.6	0.12	30
		KD1205PFV2 MS	● 12VDC	0.8	4500	8.5	0.10	26
	KD1205PFBX MS	○ 12VDC	1.3	6500	12.4	0.17	37	
	KD1205PFB1 MS	○ 12VDC	1.0	5600	10.6	0.12	32	
50x50x10 (G)	KD1205PFB2 MS	○ 12VDC	0.8	4500	8.5	0.10	28	
	KD1205PFV1 MS.G	● 12VDC	1.4	6500	12.5	0.19	35	
	KD1205PFV2 MS.G	● 12VDC	1.0	5500	10.6	0.15	30	
	KD1205PFV3 MS.G	● 12VDC	0.7	4500	8.5	0.10	25	
	KD1205PFB1 MS.G	○ 12VDC	1.4	6500	12.5	0.19	36	
50x50x15	KD1205PFB2 MS.G	○ 12VDC	1.0	5500	10.6	0.15	31.5	
	KD1205PFB3 MS.G	○ 12VDC	0.7	4500	8.5	0.10	26	
	KD1205PHV1 MS	● 12VDC	1.5	5800	17.0	0.23	33	
	KD1205PHV2 MS	● 12VDC	1.0	4700	13.0	0.17	29	
	KD1205PHV3 MS	● 12VDC	0.7	3700	10.2	0.12	22	
55x55x10 (G)	KD1205PHB1 MS	○ 12VDC	1.5	5800	17.0	0.23	34	
	KD1205PHB2 MS	○ 12VDC	1.0	4700	13.0	0.17	29.5	
	KD1205PHB3 MS	○ 12VDC	0.7	3700	10.2	0.12	22.5	
	KD1255PFV1 MS.G	● 12VDC	1.4	5700	15.0	0.16	36	
	KD1255PFV2 MS.G	● 12VDC	1.0	4700	13.0	0.12	30	
60x60x10 (G)	KD1255PFV3 MS.G	● 12VDC	0.7	4000	10.2	0.08	26	
	KD1255PFB1 MS.G	○ 12VDC	1.4	5700	15.0	0.16	36.5	
	KD1255PFB2 MS.G	○ 12VDC	1.0	4700	13.0	0.12	30.5	
	KD1255PFB3 MS.G	○ 12VDC	0.7	4000	10.2	0.08	27	
	KD1206PFV1 MS.G	● 12VDC	1.4	5200	16.5	0.17	35	
60x60x15	KD1206PFV2 MS.G	● 12VDC	1.0	4300	14.0	0.12	34.5	
	KD1206PFV3 MS.G	● 12VDC	0.8	3600	11.3	0.07	28.5	
	KD1206PFB1 MS.G	○ 12VDC	1.4	5200	16.5	0.17	36	
	KD1206PFB2 MS.G	○ 12VDC	1.0	4300	14.0	0.12	35	
	KD1206PFB3 MS.G	○ 12VDC	0.8	3600	11.3	0.07	29	
60x60x20	KD1206PHV1 MS	● 12VDC	1.8	4300	21.0	0.18	36	
	KD1206PHV2 MS	● 12VDC	1.1	3800	18.0	0.14	31	
	KD1206PHV3 MS	● 12VDC	0.7	3000	15.0	0.12	25	
	KD1206PHB1 MS	○ 12VDC	1.8	4300	21.0	0.18	37.5	
	KD1206PHB2 MS	○ 12VDC	1.1	3800	18.0	0.14	31.5	
60x60x25	KD1206PHB3 MS	○ 12VDC	0.7	3000	15.0	0.12	26	
	KD1206PKV1 MS	● 12VDC	1.8	4300	22.0	0.17	32	
	KD1206PKV2 MS	● 12VDC	1.1	3600	18.5	0.14	27.5	
	KD1206PKV3 MS	● 12VDC	0.8	3200	15.0	0.10	25	
	KD1206PKB1 MS	○ 12VDC	1.8	4300	22.0	0.17	32.5	
	KD1206PKB2 MS	○ 12VDC	1.1	3600	18.5	0.14	28	
	KD1206PKB3 MS	○ 12VDC	0.8	3200	15.0	0.10	26	
	KD1206PTV1 MS	● 12VDC	1.8	4500	23.5	0.21	33.5	
	KD1206PTV2 MS	● 12VDC	1.1	3800	19.3	0.15	29	
KD1206PTV3 MS	● 12VDC	0.7	3100	16.0	0.10	21		
60x60x25	KD1206PTB1 MS	○ 12VDC	1.8	4500	23.5	0.21	34.5	
	KD1206PTB2 MS	○ 12VDC	1.1	3800	19.3	0.15	31	
	KD1206PTB3 MS	○ 12VDC	0.7	3100	16.0	0.10	22	

★ : Bearing System: ● VAPO Bearing / ○ Ball Bearing
 *Specifications subject to change without notice

SUNON Magnetic Levitation System(MS)

2 Phase Half Wave Motor Series



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Blower



Dish Fan

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H ₂ O	dBA
25x25x10	B0502PFB1-8 MS	○	5VDC	0.9	14000	1.0	0.40	37
	B0502PFB2-8 MS	○	5VDC	0.6	10000	0.8	0.25	30
	B0502PFB3-8 MS	○	5VDC	0.3	7000	0.45	0.20	19
	B0502AFB1-8 MS	○	5VDC	0.9	14000	1.0	0.40	37
	B0502AFB2-8 MS	○	5VDC	0.6	10000	0.8	0.25	30
B0502AFB3-8 MS	○	5VDC	0.3	7000	0.45	0.20	19	
30x30x10	B0503PFB1-8 MS	○	5VDC	0.95	10000	1.3	0.35	36
	B0503PFB2-8 MS	○	5VDC	0.65	8000	1.1	0.26	30
	B0503PFB3-8 MS	○	5VDC	0.35	5500	0.55	0.22	17
	B0503AFB1-8 MS	○	5VDC	0.95	10000	1.3	0.35	36
	B0503AFB2-8 MS	○	5VDC	0.65	8000	1.1	0.26	30
B0503AFB3-8 MS	○	5VDC	0.35	5500	0.55	0.22	17	

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H ₂ O	dBA
25x25x6	052506VH-8 MS.CB.N	●	5VDC	0.65	12000	3.2	0.20	30
	052506VM-8 MS.CB.N	●	5VDC	0.45	10000	2.9	0.16	24
	052506BH-8 MS.CB.N	○	5VDC	0.65	12000	3.2	0.20	30.5
	052506BM-8 MS.CB.N	○	5VDC	0.45	10000	2.9	0.16	24.5
30x30x6	053006VH-8 MS.CB.N	●	5VDC	0.65	8500	5.0	0.10	28
	053006VM-8 MS.CB.N	●	5VDC	0.45	7000	4.0	0.07	23
	053006BH-8 MS.CB.N	○	5VDC	0.65	8500	5.0	0.10	28.5
	053006BM-8 MS.CB.N	○	5VDC	0.45	7000	4.0	0.07	23.5
35x35x6	053506VH-8 MS.CB.N	●	5VDC	0.65	6500	5.2	0.11	26
	053506VM-8 MS.CB.N	●	5VDC	0.4	5500	4.3	0.08	22
	053506BH-8 MS.CB.N	○	5VDC	0.65	6500	5.2	0.11	26.5
	053506BM-8 MS.CB.N	○	5VDC	0.4	5500	4.3	0.08	22.5
40x40x6	054006VH-8 MS.CA	●	5VDC	1.1	6500	5.0	0.10	24.5
	054006VM-8 MS.CA	●	5VDC	0.55	5500	4.1	0.07	23.5
	054006BH-8 MS.CA	○	5VDC	1.1	6500	5.0	0.10	24.5
	054006BM-8 MS.CA	○	5VDC	0.55	5500	4.1	0.07	23.5
45x45x6	054506VH-8 MS.CA	●	5VDC	1.1	5500	6.3	0.09	22.5
	054506VM-8 MS.CA	●	5VDC	0.6	4500	5.2	0.06	20
	054506BH-8 MS.CA	○	5VDC	1.1	5500	6.3	0.09	22.5
	054506BM-8 MS.CA	○	5VDC	0.6	4500	5.2	0.06	20
50x50x6	055006VH-8 MS.CA	●	5VDC	1.1	5200	7.2	0.08	25.5
	055006VM-8 MS.CA	●	5VDC	0.6	4300	6.2	0.06	19
	055006BH-8 MS.CA	○	5VDC	1.1	5200	7.2	0.08	25.5
	055006BM-8 MS.CA	○	5VDC	0.6	4300	6.2	0.06	19



Cap Fan

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H ₂ O	dBA
30x30x6 (35x37x7)	053006VH-8 MSAC.N	●	5VDC	0.9	9500	3.6	0.14	29
	053006VM-8 MSAC.N	●	5VDC	0.55	8000	3.2	0.10	24
	053006BH-8 MSAC.N	○	5VDC	0.9	9500	3.6	0.14	29
	053006BM-8 MSAC.N	○	5VDC	0.55	8000	3.2	0.10	24
35x35x6 (45x42x7)	053506VH-8 MSAD.N	●	5VDC	0.9	6500	4.3	0.08	24
	053506VM-8 MSAD.N	●	5VDC	0.6	5500	3.4	0.06	21
	053506BH-8 MSAD.N	○	5VDC	0.9	6500	4.3	0.08	24
	053506BM-8 MSAD.N	○	5VDC	0.6	5500	3.4	0.06	21
35x35x6 (50x47x7)	053506VH-8 MSAF.N	●	5VDC	0.9	6500	4.3	0.08	24
	053506VM-8 MSAF.N	●	5VDC	0.6	5500	3.4	0.06	21
	053506BH-8 MSAF.N	○	5VDC	0.9	6500	4.3	0.08	24
	053506BM-8 MSAF.N	○	5VDC	0.6	5500	3.4	0.06	21
40x40x6 (45x42x7)	054006VH-8 MSAE	●	5VDC	1.1	6500	5.0	0.10	32
	054006VM-8 MSAE	●	5VDC	0.6	5500	4.1	0.07	28
	054006BH-8 MSAE	○	5VDC	1.1	6500	5.0	0.10	32
	054006BM-8 MSAE	○	5VDC	0.6	5500	4.1	0.07	28
40x40x6 (50x49x7)	054006VH-8 MSAG	●	5VDC	1.1	6500	5.0	0.10	30
	054006VM-8 MSAG	●	5VDC	0.55	5500	4.1	0.07	26
	054006BH-8 MSAG	○	5VDC	1.1	6500	5.0	0.10	30
	054006BM-8 MSAG	○	5VDC	0.55	5500	4.1	0.07	26
45x45x6 (50x49x7)	054506VH-8 MSAH	●	5VDC	1.1	5500	6.3	0.09	30
	054506VM-8 MSAH	●	5VDC	0.6	4500	5.2	0.06	25.5
	054506BH-8 MSAH	○	5VDC	1.1	5500	6.3	0.09	30
	054506BM-8 MSAH	○	5VDC	0.6	4500	5.2	0.06	25.5
50x50x6 (54x53x7)	055006VH-8 MSAI	●	5VDC	1.1	5200	7.2	0.08	27.5
	055006VM-8 MSAI	●	5VDC	0.6	4300	6.2	0.06	24.5
	055006BH-8 MSAI	○	5VDC	1.1	5200	7.2	0.08	27.5
	055006BM-8 MSAI	○	5VDC	0.6	4300	6.2	0.06	24.5

Certification



Safety



U.S. Patent Number

4,787,863	4,987,331	5,093,599	5,245,236
5,297,929	5,492,458	5,522,700	5,584,339
5,582,506	5,666,01	1 5,690,468	5,699,854
5,734,553	5,740,017	396,276	398,393
398,392	399,946	398,977	398,978
396,276	398,393	398,392	398,977
399,946	398,978	400,665	401,686
5,873,406	408,514	5,967,763	5,959,377
5,988,995	5,997,183	418,216	6,021,043
6,050,785	6,1	14,785	6,097,120
6,109,890			6,109,892

★ : Bearing System: ● VAPO Bearing / ○ Ball Bearing
 *Specifications subject to change without notice

勝特力材料 886-3-5753170
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 Http://www.100y.com.tw

SUNON Magnetic Levitation System(MS)

1 Phase Full Wave Motor Series

-- Green Motor



Blower



Dish Fan

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H ₂ O	dBA
25x25x10	GB0502AFV1-8	●	5 VDC	0.8	14000	1.0	0.4	36
	GB0502AFV2-8	●	5 VDC	0.55	10000	0.8	0.25	28
	GB0502AFV3-8	●	5 VDC	0.25	7000	0.45	0.20	17
	GB0502AFB1-8	○	5 VDC	0.8	14000	1.0	0.4	37
	GB0502AFB2-8	○	5 VDC	0.55	10000	0.8	0.25	30
	GB0502AFB3-8	○	5 VDC	0.25	7000	0.45	0.20	19
30x30x10	GB0503AFV1-8	●	5 VDC	0.85	10000	1.3	0.35	34
	GB0503AFV2-8	●	5 VDC	0.55	8000	1.1	0.26	26
	GB0503AFV3-8	●	5 VDC	0.3	5500	0.55	0.22	16
	GB0503AFB1-8	○	5 VDC	0.85	10000	1.3	0.35	36
	GB0503AFB2-8	○	5 VDC	0.55	8000	1.1	0.26	27
	GB0503AFB3-8	○	5 VDC	0.3	5500	0.55	0.22	17
35x35x4.8	GB0535ACB1-8	○	5 VDC	0.8	9500	0.9	0.31	31
	GB0535ACB2-8	○	5 VDC	0.35	7500	0.7	0.22	26
35x35x6	GB0535AEV1-8	●	5 VDC	0.6	8500	1.0	0.32	30
	GB0535AEV2-8	●	5 VDC	0.4	7000	0.8	0.24	25
	GB0535AEV3-8	●	5 VDC	0.25	5500	0.6	0.12	19.5
	GB0535AEB1-8	○	5 VDC	0.6	8500	1.0	0.32	31
	GB0535AEB2-8	○	5 VDC	0.4	7000	0.8	0.24	26
	GB0535AEB3-8	○	5 VDC	0.25	5500	0.6	0.12	20
35x35x7	GB0535ADV1-8	●	5 VDC	0.6	8000	1.2	0.32	30
	GB0535ADV2-8	●	5 VDC	0.4	6500	1.0	0.22	24.5
	GB0535ADV3-8	●	5 VDC	0.25	5000	0.8	0.13	19.5
	GB0535ADB1-8	○	5 VDC	0.6	8000	1.2	0.32	31
	GB0535ADB2-8	○	5 VDC	0.4	6500	1.0	0.22	25
	GB0535ADB3-8	○	5 VDC	0.25	5000	0.8	0.13	20
40x40x7	GB0504ADV1-8	●	5 VDC	0.45	7500	1.5	0.34	33
	GB0504ADV2-8	●	5 VDC	0.25	6000	1.3	0.23	25.5
	GB0504ADV3-8	●	5 VDC	0.15	4500	0.9	0.12	19.5
	GB0504ADB1-8	○	5 VDC	0.45	7500	1.5	0.34	34
	GB0504ADB2-8	○	5 VDC	0.25	6000	1.3	0.23	26
	GB0504ADB3-8	○	5 VDC	0.15	4500	0.9	0.12	20
40x40x9	GB0504AFV1-8	●	5 VDC	0.30	6500	1.8	0.3	30
	GB0504AFV2-8	●	5 VDC	0.20	5500	1.5	0.21	24.5
	GB0504AFV3-8	●	5 VDC	0.15	4200	1.1	0.12	19.5
	GB0504AFB1-8	○	5 VDC	0.30	6500	1.8	0.3	31
	GB0504AFB2-8	○	5 VDC	0.20	5500	1.5	0.21	25
	GB0504AFB3-8	○	5 VDC	0.15	4200	1.1	0.12	20
45x45x7	GB0545ADV1-8	●	5 VDC	0.50	6500	2.3	0.34	33
	GB0545ADV2-8	●	5 VDC	0.30	5000	1.8	0.20	26
	GB0545ADV3-8	●	5 VDC	0.15	3500	1.2	0.10	19.5
	GB0545ADB1-8	○	5 VDC	0.50	6500	2.3	0.34	34
	GB0545ADB2-8	○	5 VDC	0.30	5000	1.8	0.20	27
	GB0545ADB3-8	○	5 VDC	0.15	3500	1.2	0.10	20
45x45x9	GB0545AFV1-8	●	5 VDC	0.35	5500	2.2	0.26	29
	GB0545AFV2-8	●	5 VDC	0.25	4500	1.8	0.18	23
	GB0545AFV3-8	●	5 VDC	0.15	3500	1.4	0.10	19.5
	GB0545AFB1-8	○	5 VDC	0.35	5500	2.2	0.26	30
	GB0545AFB2-8	○	5 VDC	0.25	4500	1.8	0.18	24
	GB0545AFB3-8	○	5 VDC	0.15	3500	1.4	0.10	20

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H ₂ O	dBA
25x25x6	GC052506VH-8 CB.N	●	5 VDC	0.65	12000	3.2	0.20	30
	GC052506VM-8 CB.N	●	5 VDC	0.45	10000	2.9	0.16	24
	GC052506BH-8 CB.N	○	5 VDC	0.65	12000	3.2	0.20	30.5
	GC052506BM-8 CB.N	○	5 VDC	0.45	10000	2.9	0.16	24.4
30x30x6	GC053006VH-8 CB.N	●	5 VDC	0.65	8500	5.0	0.10	28
	GC053006VM-8 CB.N	●	5 VDC	0.45	7000	4.0	0.07	23
	GC053006BH-8 CB.N	○	5 VDC	0.65	8500	5.0	0.10	28.5
	GC053006BM-8 CB.N	○	5 VDC	0.45	7000	4.0	0.07	23.5
35x35x6	GC053506VH-8 CB.N	●	5 VDC	0.65	6500	5.2	0.11	26
	GC053506VM-8 CB.N	●	5 VDC	0.4	5500	4.3	0.08	22
	GC053506BH-8 CB.N	○	5 VDC	0.65	6500	5.2	0.11	26.5
	GC053506BM-8 CB.N	○	5 VDC	0.4	5500	4.3	0.08	22.5
40x40x6	GC054006VH-8 CA	●	5 VDC	0.45	6500	5.0	0.10	24.5
	GC054006VM-8 CA	●	5 VDC	0.3	5500	4.1	0.07	23.5
	GC054006BH-8 CA	○	5 VDC	0.45	6500	5.0	0.10	25
	GC054006BM-8 CA	○	5 VDC	0.3	5500	4.1	0.07	24
45x45x6	GC054506VH-8 CA	●	5 VDC	0.5	5500	6.3	0.09	22.5
	GC054506VM-8 CA	●	5 VDC	0.35	4500	5.2	0.06	20
	GC054506BH-8 CA	○	5 VDC	0.5	5500	6.3	0.09	23
	GC054506BM-8 CA	○	5 VDC	0.35	4500	5.2	0.06	20.5
50x50x6	GC055006VH-8 CA	●	5 VDC	0.5	5200	7.2	0.08	25.5
	GC055006VM-8 CA	●	5 VDC	0.35	4300	6.2	0.06	19
	GC055006BH-8 CA	○	5 VDC	0.5	5200	7.2	0.08	26
	GC055006BM-8 CA	○	5 VDC	0.35	4300	6.2	0.06	19.5

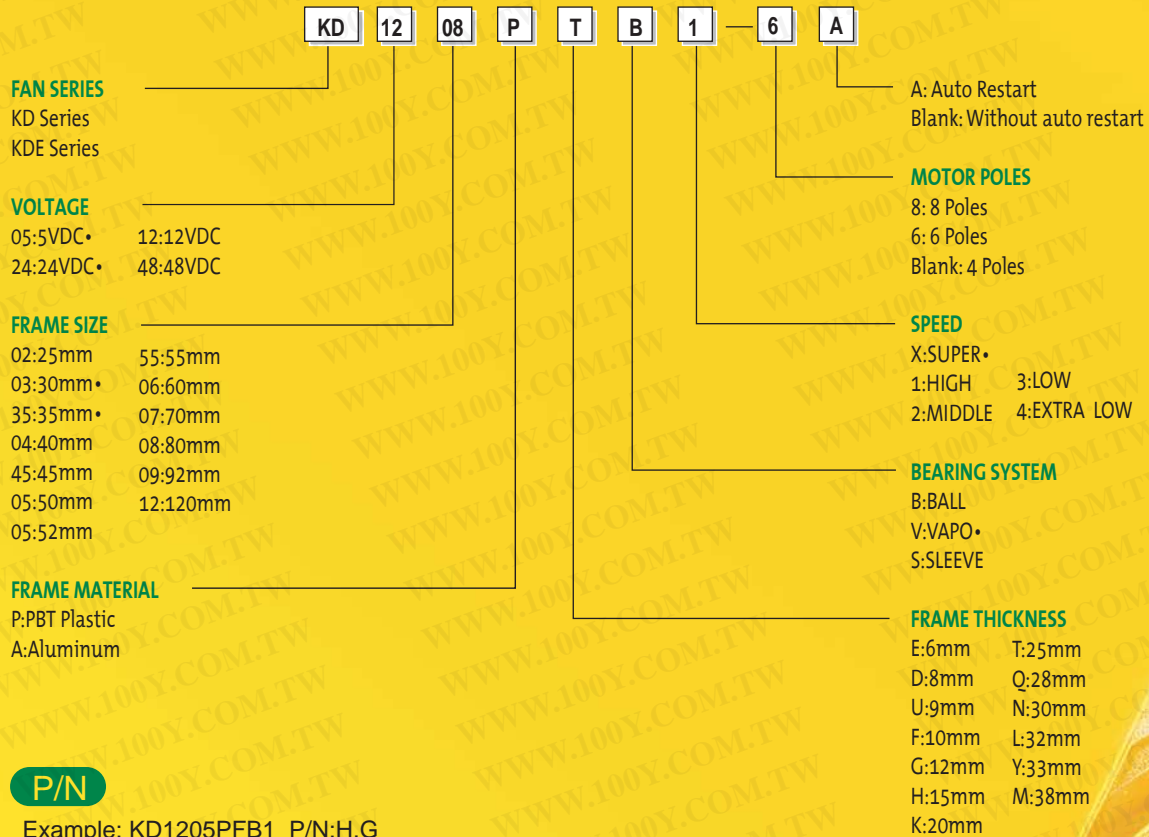


Cap Fan

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H ₂ O	dBA
30x30x6 (35x37x7)	GC053006VH-8 AC.N	●	5 VDC	0.65	9500	3.6	0.14	29
	GC053006VM-8 AC.N	●	5 VDC	0.45	8000	3.2	0.10	24
	GC053006BH-8 AC.N	○	5 VDC	0.65	9500	3.6	0.14	29.5
	GC053006BM-8 AC.N	○	5 VDC	0.45	8000	3.2	0.10	24.5
35x35x6 (45x42x7)	GC053506VH-8 AD.N	●	5 VDC	0.65	6500	4.3	0.08	24
	GC053506VM-8 AD.N	●	5 VDC	0.4	5500	3.4	0.06	21
	GC053506BH-8 AD.N	○	5 VDC	0.65	6500	4.3	0.08	24.5
	GC053506BM-8 AD.N	○	5 VDC	0.4	5500	3.4	0.06	21.5
35x35x6 (50x47x7)	GC053506VH-8 AF.N	●	5 VDC	0.65	6500	4.3	0.08	24
	GC053506VM-8 AF.N	●	5 VDC	0.4	5500	3.4	0.06	21
	GC053506BH-8 AF.N	○	5 VDC	0.65	6500	4.3	0.08	24.5
	GC053506BM-8 AF.N	○	5 VDC	0.4	5500	3.4	0.06	21.5
40x40x6 (45x42x7)	GC054006VH-8 AE	●	5 VDC	0.5	6500	5.0	0.10	32
	GC054006VM-8 AE	●	5 VDC	0.3	5500	4.1	0.07	28
	GC054006BH-8 AE	○	5 VDC	0.5	6500	5.0	0.10	32.5
	GC054006BM-8 AE	○	5 VDC	0.3	5500	4.1	0.07	28.5
40x40x6 (50x49x7)	GC054006VH-8 AG	●	5 VDC	0.5	6500	5.0	0.10	30
	GC054006VM-8 AG	●	5 VDC	0.3	5500	4.1	0.07	26
	GC054006BH-8 AG	○	5 VDC	0.5	6500	5.0	0.10	30.5
	GC054006BM-8 AG	○	5 VDC	0.3	5500	4.1	0.07	26.5
45x45x6 (50x49x7)	GC054506VH-8 AH	●	5 VDC	0.5	5500	6.3	0.09	30
	GC054506VM-8 AH	●	5 VDC	0.35	4500	5.2	0.06	25.5
	GC054506BH-8 AH	○	5 VDC	0.5	5500	6.3	0.09	30.5
	GC054506BM-8 AH	○	5 VDC	0.35	4500	5.2	0.06	26
50x50x6 (54x53x7)	GC055006VH-8 AI	●	5 VDC	0.5	5200	7.2	0.08	27.5
	GC055006VM-8 AI	●	5 VDC	0.35	4300	6.2	0.06	24.5
	GC055006BH-8 AI	○	5 VDC	0.5	5200	7.2	0.08	28
	GC055006BM-8 AI	○	5 VDC	0.35	4300	6.2	0.06	25

★ : Bearing System: ● VAPO Bearing / ○ Ball Bearing
 *Specifications subject to change without notice

Standard DC Brushless Fan Model Numbering System



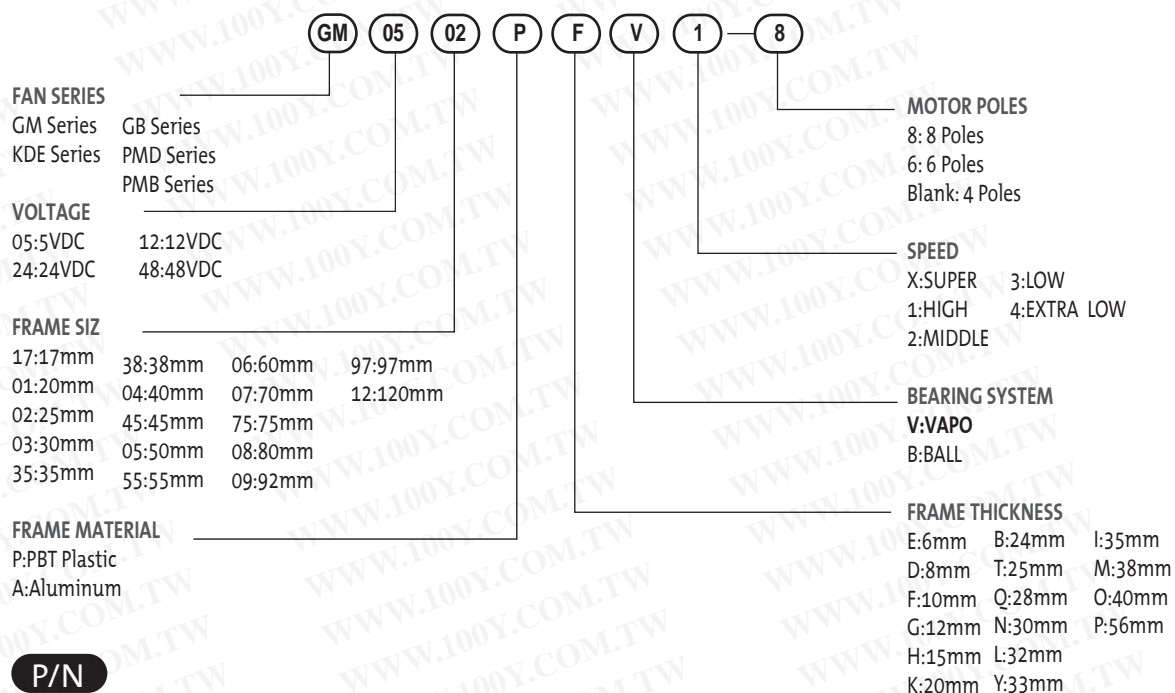
P/N

Example: KD1205PFB1 P/N:H.G

- 11/13 Motor model
- (2) Two ball bearing
- H Component/process upgraded
- OC Low voltage start-up & open collector type
- G Big hub
- V New blade
- BXX Special circuit design
- CXX Different dimensions, particular process or supplementary component parts
- M 3rd wire square wave signal was not amplified
 3rd wire square with open collector type (only available for P/N: H&MS Series)
- TM 3rd wire square with open collector type
- R 3rd wire with rotation detector waveform(Only available for 8025/9225/12025/12038 Series)
- F 3rd wire with frequency generation waveform(Only available for 8025/9225/12025/12038 Serie)

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[Http://www.100y.com.tw](http://www.100y.com.tw)

DC Fan and Blower Model Numbering System



P/N

Example: KDE1208PTV1 P/N:13.MS.A.GN

- 11/13 Motor model
- MS MagLev Design
- (2) Two ball bearing
- G Big hub
- (9) 9 Blades
- N Smaller hub
- A Auto restart
- F 3rd wire with frequency generation waveform
- R 3rd wire with rotation detector waveform
- U Upgrade
- GN RoHS compliance

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Sunon Connector recommendation

Connector pitch	Manufacturer	Housing	Terminal
1.25mm	HIROSE	DF13-2S-1.25C	DF13-2630SCF
	MOLEX	51021-0300	50058-8200
1.5mm	JST	ZHR-2	SZH-002T-P0.5 or SZH-003T-P0.5
2.0mm	JST	PHR-2	SPH-002T-P0.5S
2.54mm	ECI	2510-02	2511-P
	Molex	50-57-9405	16-02-0069(70058-0004) or 16-02-0082(70058-0006)
	Molex	2695-02RP	2759T(39-00-0372)
	Molex	2695-03RP	2759T(39-00-0372)
	Molex	6471-021	4809-C-P914
	Molex	6471-031	4809-C-P914
2.50mm	JAM	SC25-02HG	725462-2MA
	JST	SMR-02V-B	SYM-001T-P0.6
	JST	XHP-2	SXH-001T-0.6
	JST	EHR-2(H28J-2)	SEH-001T-P0.6
	JST	SMP-02V-BC	SHF-001T-0.8BS
	JWT	A2502H02-2P	A2502TOP-2
	JWT	A2502H02-3P	A2502TOP-2
	Molex	5051-02	2759T(39-00-0372)
	Molex	5264-02	5263PBT(08-70-1039)