



# 60×60×38 mm

San Ace 60 9GV type

## General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 547.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... At 1 m away from the air inlet
- Storage temperature ..... -30 to +70°C (Non-condensing)
- Lead wire ..... ⊕Red ⊖Black (Sensor) Yellow (Control) Brown
- Mass ..... 130 g

## Specifications

The models listed below **have ribs and pulse sensors with PWM control function**. For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]	Max. static pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9GV0612P1G03	12	8.0 to 13.8	100	2.8	33.6	16000	2.37 84	751 3.02	66	-20 to +70	40000/60°C
			0	0.12	1.5	3100	0.44 15	26 0.1	25		
9GV0612P1H03			100	2.0	24.0	14500	2.15 76	617 2.48	63		
			0	0.1	1.2	2700	0.4 14	21 0.09	22		
9GV0612P1M03		10.8 to 13.8	100	1.5	18.0	13000	1.93 68	496 1.99	60		
			0	0.08	1.0	2500	0.38 13	18 0.07	19		
9GV0612P1L01**			100	0.7	8.4	10000	1.49 52.6	293 1.17	52		
9GV0624P1G03	24	20.4 to 27.6	100	1.4	33.6	16000	2.37 84	751 3.02	66		
			0	0.12	2.88	6000	0.89 31	105 0.42	38		
9GV0624P1M03**			100	0.73	17.52	13000	1.93 68.0	496 1.99	60		
			0	0.5	24	14500	2.15 76	617 2.48	63		
9GV0648P1H03		38 to 57	100	0.5	24	14500	2.15 76	617 2.48	63		
			0	0.08	3.84	6000	0.89 31	105 0.42	38		

\* PWM frequency: 25 kHz \*\* Fan does not rotate when PWM duty cycle is 0%.

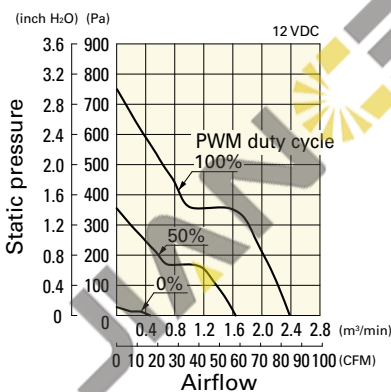
The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on p. 574. Without sensor Pulse sensor Lock sensor

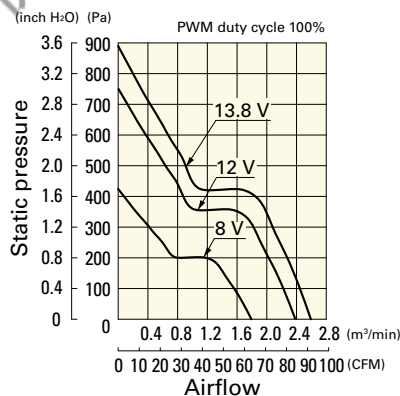
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GV0612P1G03** With pulse sensor with PWM control function

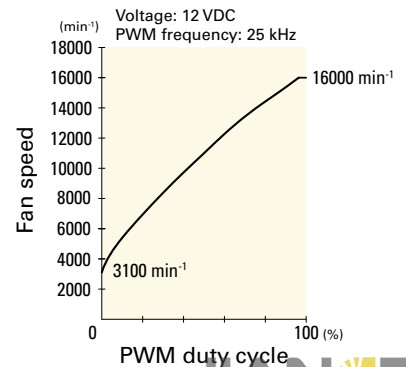
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



JIAN 健策

0755—23706799

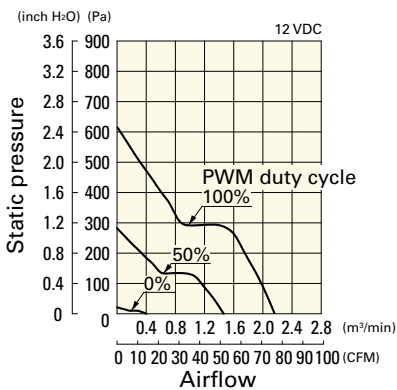
微信扫码  
咨询工程师



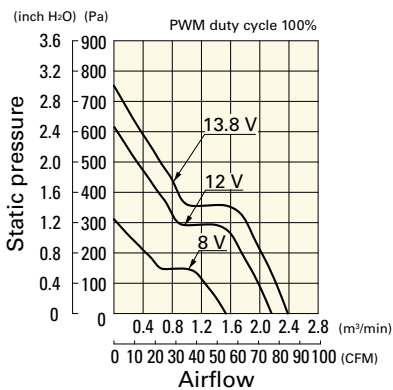
### Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GV0612P1H03** With pulse sensor with PWM control function

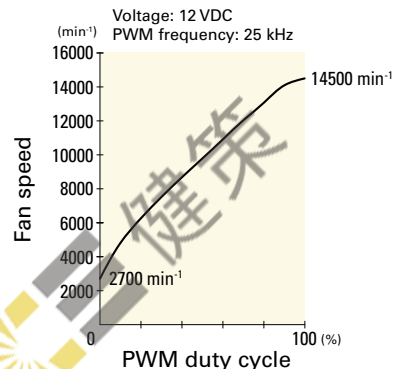
PWM duty cycle



Operating voltage range

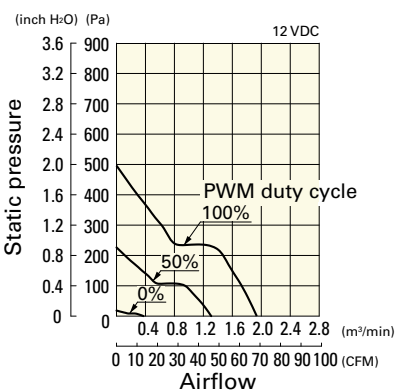


PWM duty - Speed characteristics example

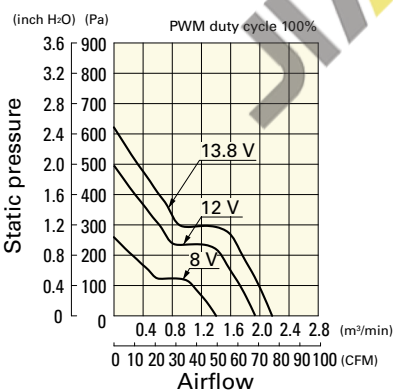


**9GV0612P1M03** With pulse sensor with PWM control function

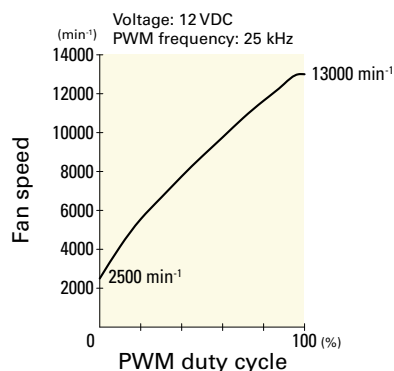
PWM duty cycle



Operating voltage range

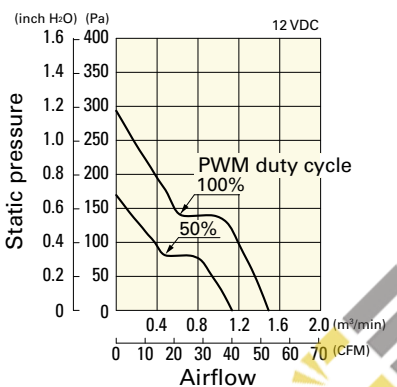


PWM duty - Speed characteristics example

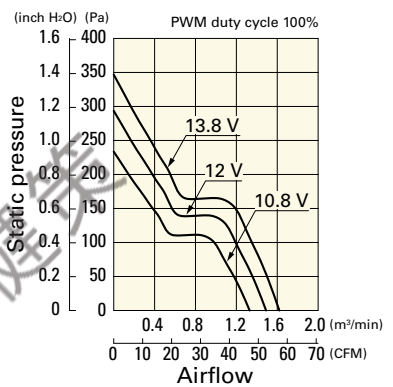


**9GV0612P1L01** With pulse sensor with PWM control function

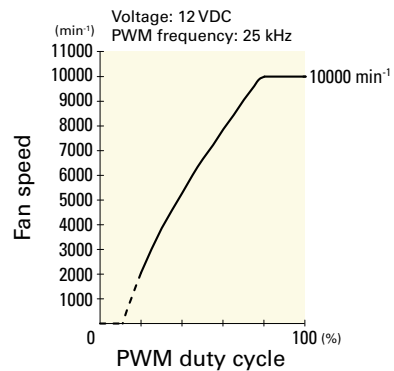
PWM duty cycle



Operating voltage range

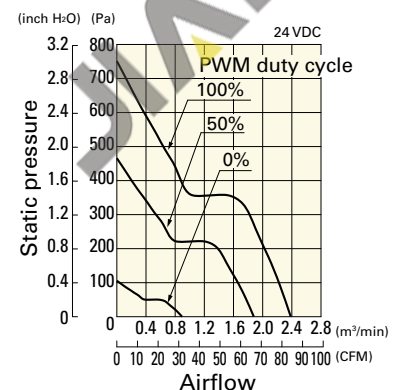


PWM duty - Speed characteristics example

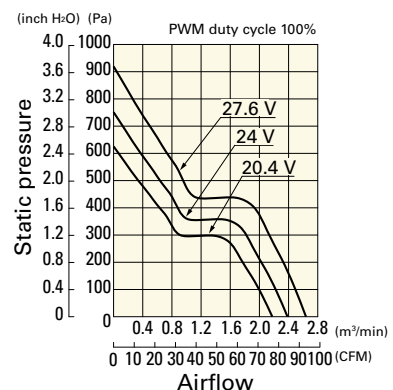


**9GV0624P1G03** With pulse sensor with PWM control function

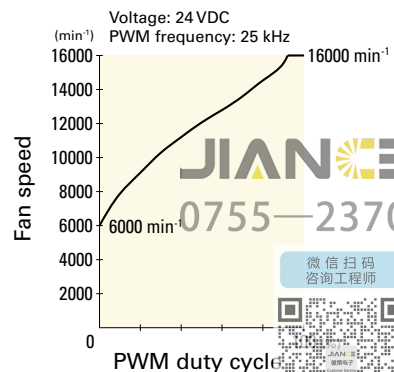
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



JIAN 健策  
0755-23706799

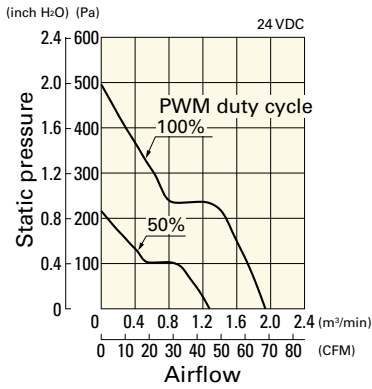
微信扫码  
咨询工程师



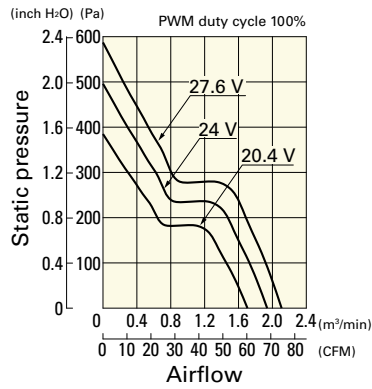
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GV0624P1M03** With pulse sensor with PWM control function

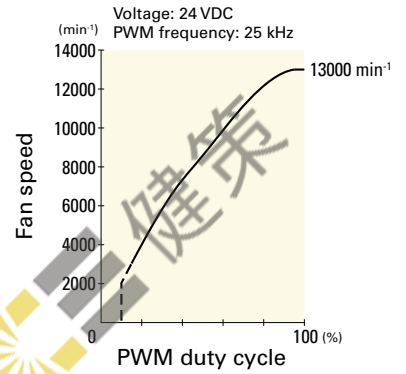
PWM duty cycle



Operating voltage range

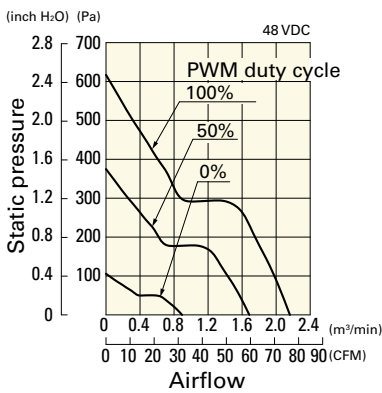


PWM duty - Speed characteristics example

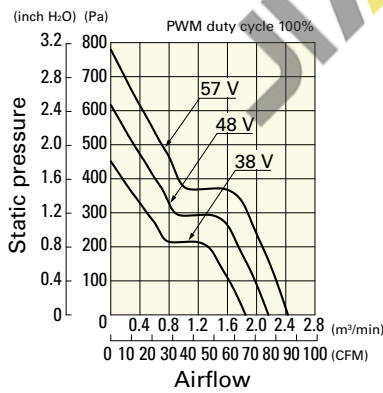


**9GV0648P1H03** With pulse sensor with PWM control function

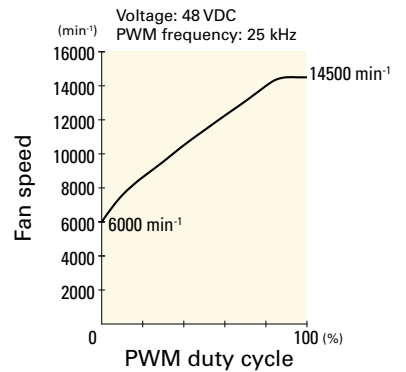
PWM duty cycle



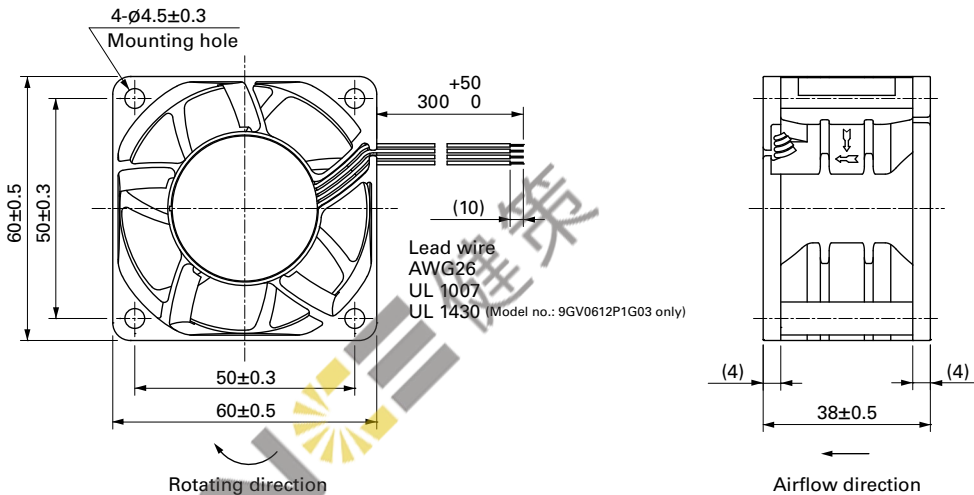
Operating voltage range



PWM duty - Speed characteristics example



## Dimensions (unit: mm) (With ribs)



JIAN 健策

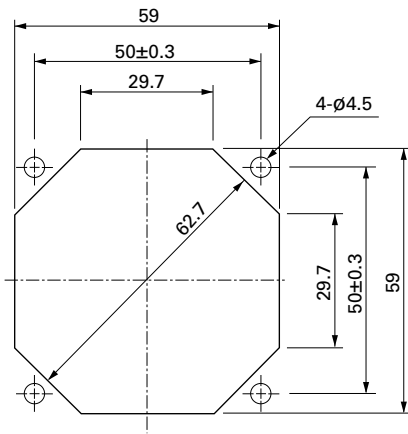
0755—23706799

微信扫码  
咨询工程师



## Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)

Inlet side, Outlet side



## Options

### Finger guards

page: p. 532

Model no.: 109-139E, 109-139H

### Resin finger guards

page: p. 539

Model no.: 109-1003G

### Resin filter kits

page: p. 540

Model no.: 109-1003F13 (13PPI), 109-1003F20 (20PPI),  
109-1003F30 (30PPI), 109-1003F40 (40PPI)



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Sanyo Denki:

[9GV0612P1H031](#) [9GV0612P1M03](#) [9GV0624P1G03](#) [9GV0612P1G031](#) [9GV0648P1H031](#) [9GV0612P1G03](#)  
[9GV0648P1H03](#) [9GV0624P1G031](#) [9GV0612P1M031](#) [9GV0612P1H03](#) [9GV0612G1D011](#) [9GV0612M1D011](#)  
[9GV0612G102](#) [9GV0612H1D01](#) [9GV0612M1D01](#) [9GV0648H102](#) [9GV0648H101](#) [9GV0612G1021](#) [9GV0612M102](#)  
[9GV0612H101](#) [9GV0612H1D011](#) [9GV0612M101](#) [9GV0612H102](#) [9GV0624G1D01](#) [9GV0624G101](#) [9GV0612G101](#)  
[9GV0624G102](#) [9GV0612H1021](#) [9GV0612H1011](#) [9GV0612G1011](#) [9GV0612G1D01](#) [9GV0624P1M03](#)  
[9GV0624G1021](#) [9GV0612P1L01](#) [9GV0612L1011](#) [9GV0624M101](#) [9GV0624M102](#) [9GV0612P1L011](#)  
[9GV0624P1M031](#) [9GV0612L102](#) [9GV0612L1021](#) [9GV0612M1011](#)

JIAN 健策

JIAN 健策  
0755—23706799

