



# 120×120×38 mm

## San Ace 120 9GV type us

### 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 ..... 360 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] |
|----------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|-------------------|
| 9GV1212P1J01   | 12                | 10.2 to 13.8                | 100                 | 3.0               | 36.0            | 6400                             | 6.35 224.0                               | 360.0 1.45                                       | 64           | -20 to +70                 | 40000/60°C        |
|                |                   |                             | 0                   | 0.19              | 2.28            | 1500                             | 1.49 52.6                                | 19.8 0.08                                        | 33           |                            |                   |
| 9GV1212P1G01   |                   |                             | 100                 | 2.1               | 25.2            | 5500                             | 5.45 192.6                               | 265 1.06                                         | 60           |                            |                   |
|                |                   |                             | 0                   | 0.19              | 2.28            | 1500                             | 1.49 52.6                                | 19.8 0.08                                        | 33           |                            |                   |
| 9GV1224P1J01** | 24                | 20.4 to 27.6                | 100                 | 1.5               | 36.0            | 6400                             | 6.35 224.0                               | 360 1.45                                         | 64           |                            |                   |
| 9GV1224P1H01** |                   |                             | 100                 | 0.8               | 19.2            | 5200                             | 5.16 182.3                               | 237 0.95                                         | 58           |                            |                   |
| 9GV1248P1J01   | 48                | 40.8 to 55.2                | 100                 | 0.75              | 36.0            | 6400                             | 6.35 224.0                               | 360.0 1.45                                       | 64           |                            |                   |
|                |                   |                             | 0                   | 0.06              | 2.88            | 1500                             | 1.49 52.6                                | 26.1 0.106                                       | 33           |                            |                   |

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

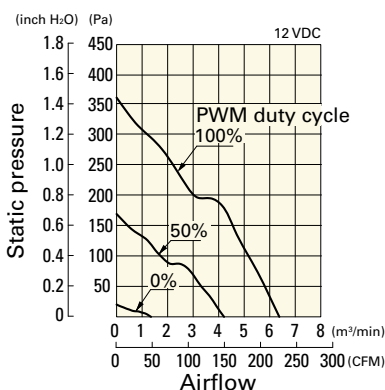
The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on pp. 574 to 575. Without sensor Pulse sensor Lock sensor

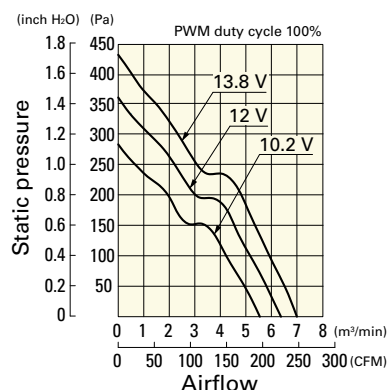
### Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

#### 9GV1212P1J01 With pulse sensor with PWM control function

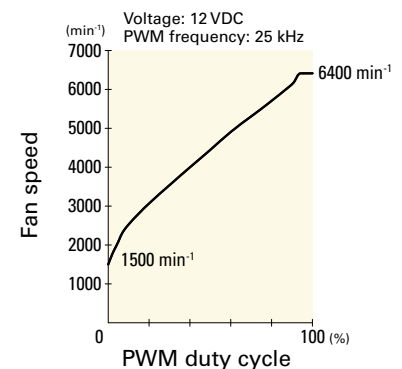
PWM duty cycle



Operating voltage range



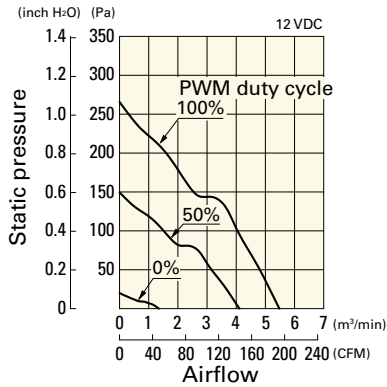
PWM duty - Speed characteristics example



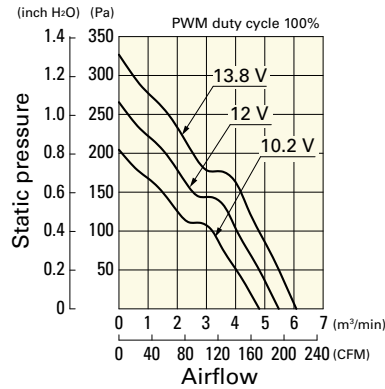
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

### 9GV1212P1G01 With pulse sensor with PWM control function

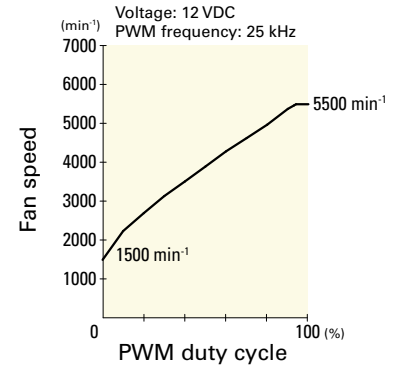
PWM duty cycle



Operating voltage range

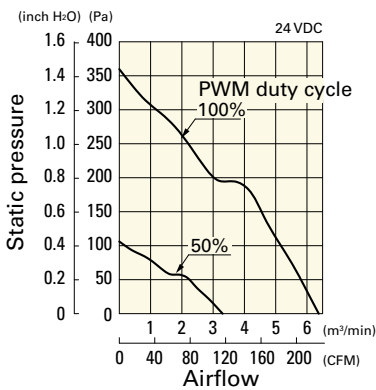


PWM duty - Speed characteristics example

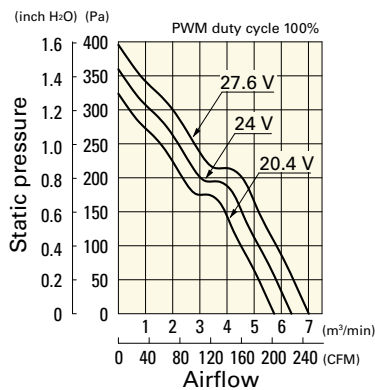


### 9GV1224P1J01 With pulse sensor with PWM control function

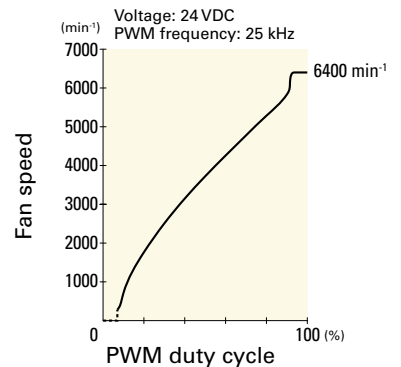
PWM duty cycle



Operating voltage range

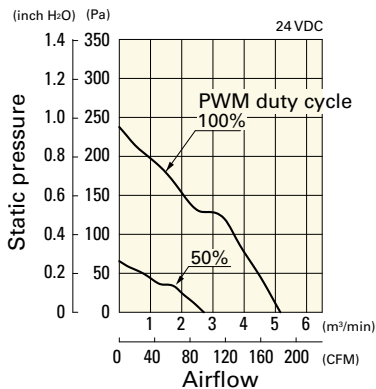


PWM duty - Speed characteristics example

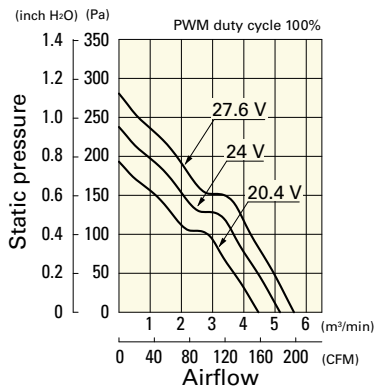


### 9GV1224P1H01 With pulse sensor with PWM control function

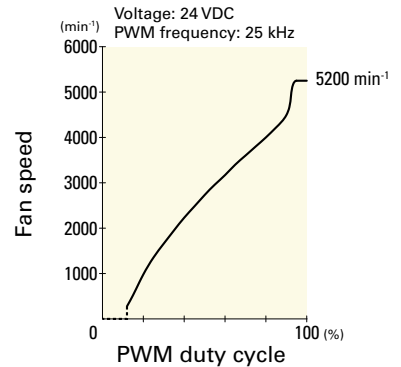
PWM duty cycle



Operating voltage range

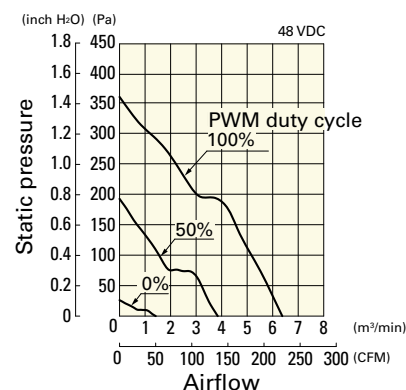


PWM duty - Speed characteristics example

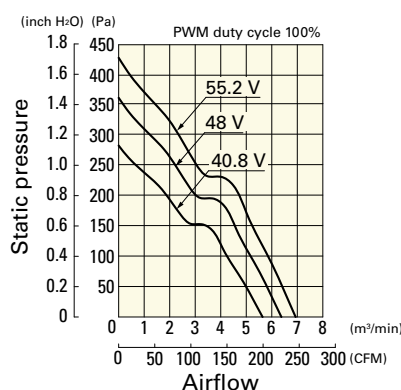


### 9GV1248P1J01 With pulse sensor with PWM control function

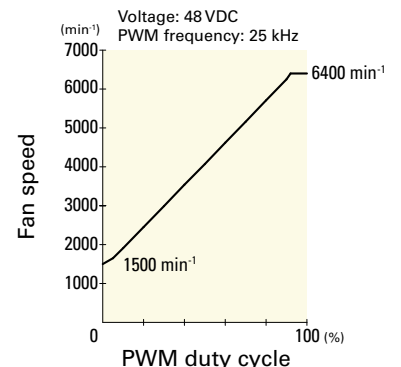
PWM duty cycle



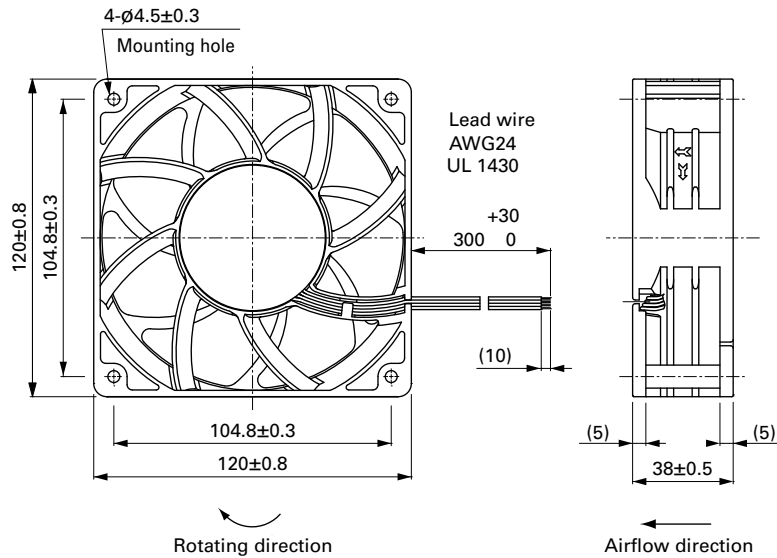
Operating voltage range



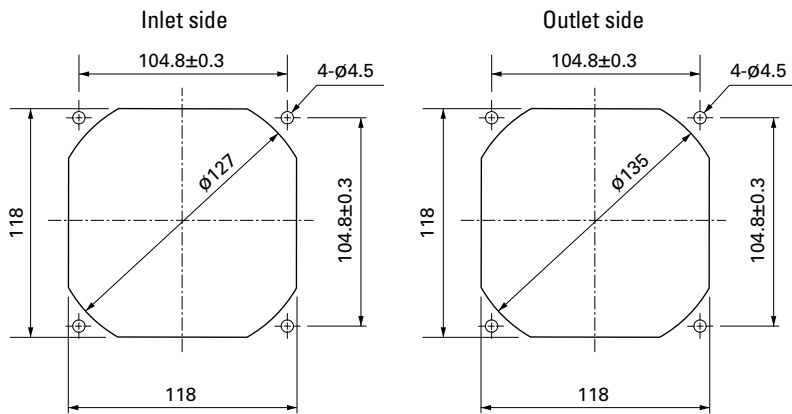
PWM duty - Speed characteristics example



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



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



## ■ Options

### Finger guards

page: p. 533

Model no.: 109-019E, 109-019K, 109-019C, 109-019H

### Resin finger guards

page: p. 539

Model no.: 109-1000G

### Resin filter kits

page: p. 540

Model no.: 109-1000F13 (13PPI), 109-1000F20 (20PPI),  
109-1000F30 (30PPI), 109-1000F40 (40PPI)

# Mouser Electronics

Authorized Distributor

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

## Sanyo Denki:

[9GV1212J101](#) [9GV1224P1J011](#) [9GV1212P1J011](#) [9GV1224P1H01](#) [9GV1248P1J01](#) [9GV1212P1J01](#)  
[9GV1224P1H011](#) [9GV1224P1J01](#) [9GV1212P1G011](#) [9GV1212P1G01](#) [9GV1224J102](#) [9GV1224H101](#)  
[9GV1248P1B10](#) [9GV1212J102](#) [9GV1248J101](#) [9GV1248J102](#) [9GV1224H102](#) [9GV1248P1J011](#) [9GV1248J1011](#)  
[9GV1224J1011](#) [9GV1224J101](#) [9GV1212G1011](#) [9GV1224H1011](#) [9GV1224H1021](#) [9GV1224J1021](#) [9GV1224J1D011](#)  
[9GV1212J1011](#) [9GV1248J1021](#) [9GV1212J1021](#)