# 60×60×25 mm

## San Ace 60 9GX 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) Expected life at 40°C is for reference only.
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection For details, please refer to p. 616.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... A-weighted 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 ..... 90 g

## Specifications

The models listed below **have ribs and a pulse sensor with PWM control.**

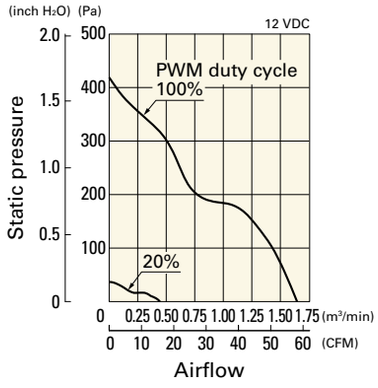
| Model no. | Rated voltage [V] | Operating voltage range [V] | PWM duty cycle* [%] | Rated current [A] | Rated input [W] | Rated speed [min⁻¹] | Max. airflow [m³/min] | Max. airflow [CFM] | Max. static pressure [Pa] | Max. static pressure [inchH₂O] | SPL [dB (A)] | Operating temperature [˚C] | Expected life [h] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **9GX0612P4K001** | 12 | 10.8 to 13.2 | 100 | 1.3 | 15.6 | 13000 | 1.65 | 58.3 | 419 | 1.67 | 58 | -20 to +70 | 40000/60˚C (70000/40˚C) |
| | | | 20 | 0.13 | 1.56 | 3800 | 0.47 | 16.6 | 35.4 | 0.141 | 24 | | |

* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

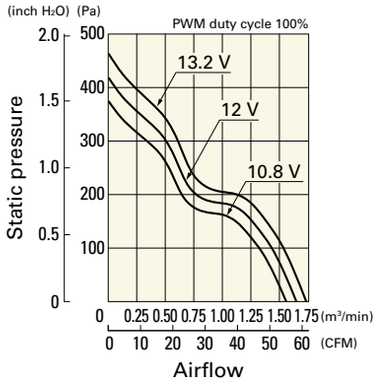
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GX0612P4K001** With pulse sensor with PWM control

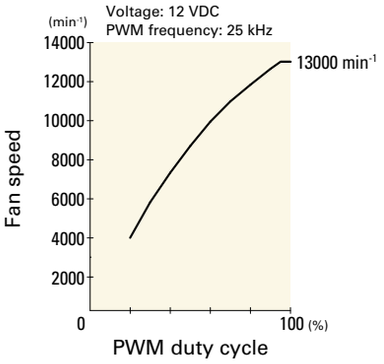
PWM duty cycle



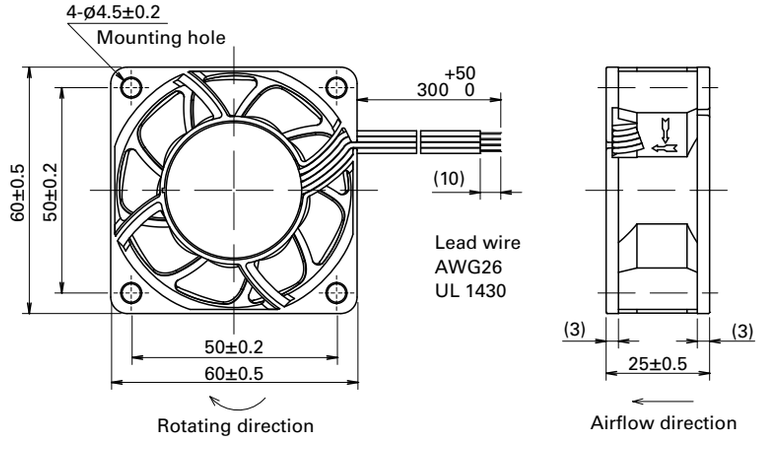

Operating voltage range




PWM duty - Speed characteristics example



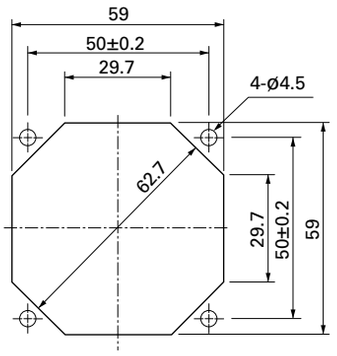

## Dimensions (unit: mm) (With ribs)






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Inlet side, Outlet side




## Options

**Finger guards** page: p. 598

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

**Resin filter kits** page: p. 606

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

**Resin finger guards** page: p. 605

Model no.: 109-1003G



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# 60×60×25 mm

## San Ace 60 9G type




## General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in free air at 60˚C, rated voltage) Expected life at 40°C is for reference only.
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection For details, please refer to p. 616.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... A-weighted 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 ..... 90 g

## Specifications

The models listed below **have ribs and a pulse sensor with PWM control.** 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⁻¹] | Max. airflow [m³/min] | Max. airflow [CFM] | Max. static pressure [Pa] | Max. static pressure [inchH₂O] | SPL [dB (A)] | Operating temperature [˚C] | Expected life [h] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **9G0612P4S001** | 12 | 10.2 to 13.8 | 100 | 0.67 | 8.04 | 11000 | 1.4 | 49.4 | 300 | 1.2 | 53 | -20 to +70 | 40000/60˚C (70000/40˚C) |
| | | | 0 | 0.07 | 0.84 | 3300 | 0.42 | 14.8 | 27 | 0.11 | 19 | | |
| **9G0612P4H001** | | | 100 | 0.5 | 6.0 | 9500 | 1.21 | 42.7 | 224 | 0.9 | 49 | | |
| | | | 0 | 0.06 | 0.72 | 2850 | 0.36 | 12.7 | 20.2 | 0.08 | 18 | | |
| **9G0624P4S001** | 24 | 20.4 to 27.6 | 100 | 0.34 | 8.16 | 11000 | 1.4 | 49.4 | 300 | 1.2 | 53 | | |
| | | | 0 | 0.04 | 0.96 | 3300 | 0.42 | 14.8 | 27 | 0.11 | 19 | | |
| **9G0624P4H001** | | | 100 | 0.25 | 6.0 | 9500 | 1.21 | 42.7 | 224 | 0.9 | 49 | | |
| | | | 0 | 0.04 | 0.96 | 2850 | 0.36 | 12.7 | 20.2 | 0.08 | 18 | | |
| **9G0648P4S001** | 48 | 36 to 72 | 100 | 0.18 | 8.64 | 11000 | 1.4 | 49.4 | 305 | 1.22 | 53 | | |
| | | | 0 | 0.02 | 0.96 | 3300 | 0.42 | 14.8 | 27.4 | 0.11 | 19 | | |

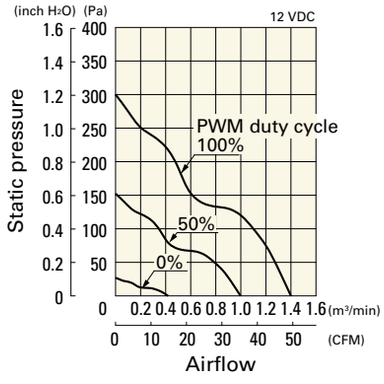
* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

Note: Sensor and control options are available for selection. Refer to the table on p. 647.

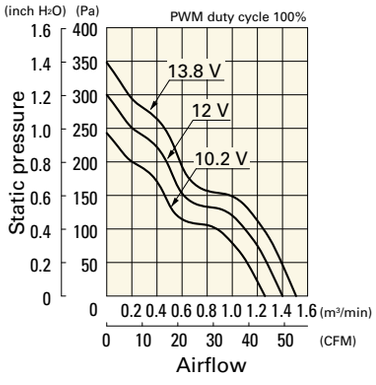
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9G0612P4S001** With pulse sensor with PWM control

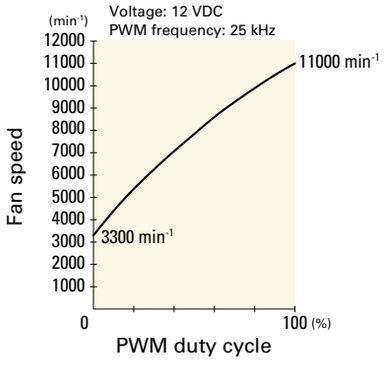
PWM duty cycle




Operating voltage range




PWM duty - Speed characteristics example

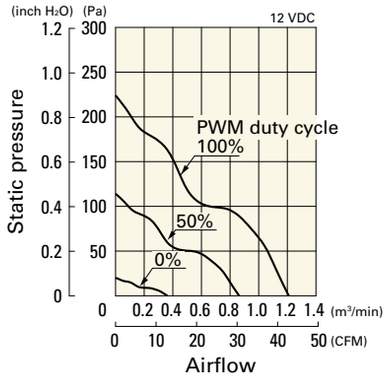




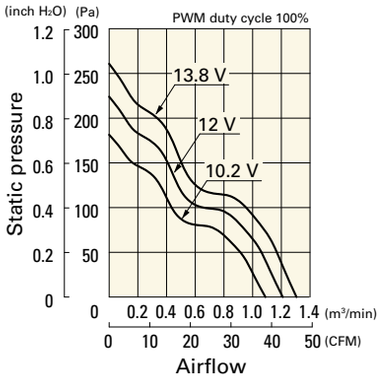

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## 9G0612P4H001 With pulse sensor with PWM control

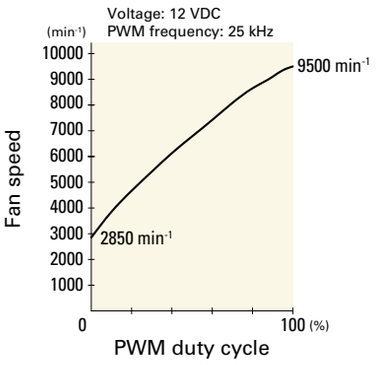
PWM duty cycle




Operating voltage range

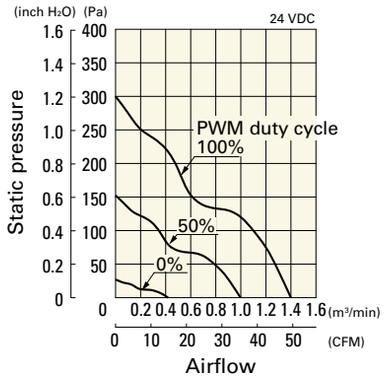



PWM duty - Speed characteristics example

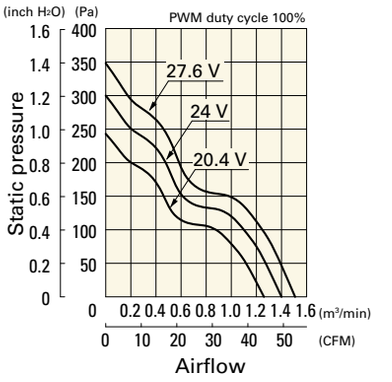



## 9G0624P4S001 With pulse sensor with PWM control

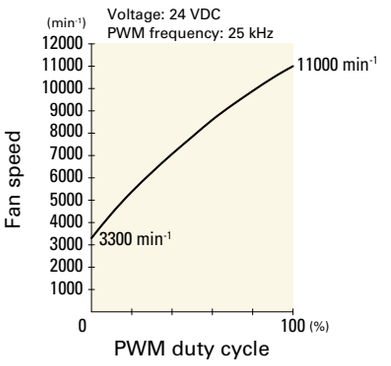
PWM duty cycle




Operating voltage range

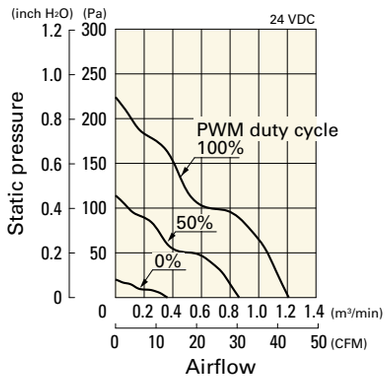



PWM duty - Speed characteristics example

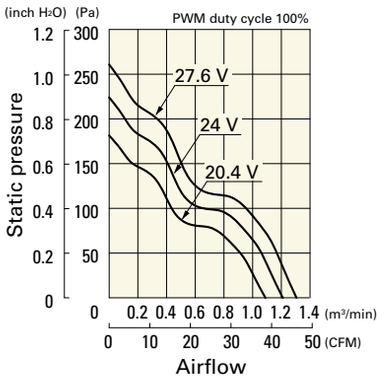



## 9G0624P4H001 With pulse sensor with PWM control

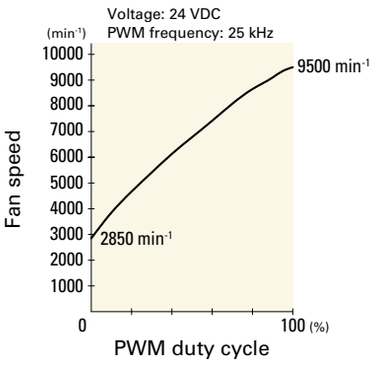
PWM duty cycle




Operating voltage range

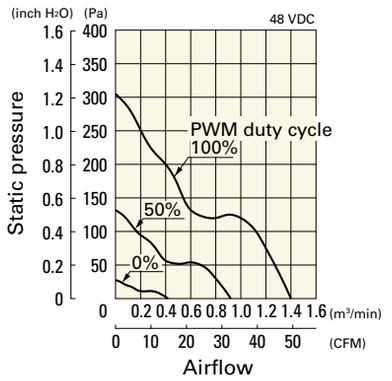



PWM duty - Speed characteristics example

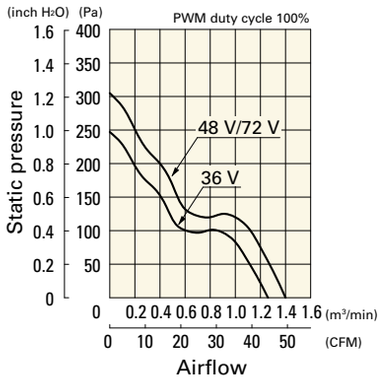



## 9G0648P4S001 With pulse sensor with PWM control

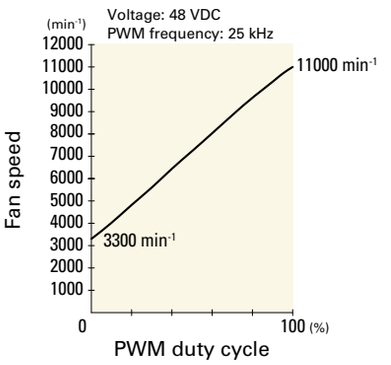
PWM duty cycle




Operating voltage range

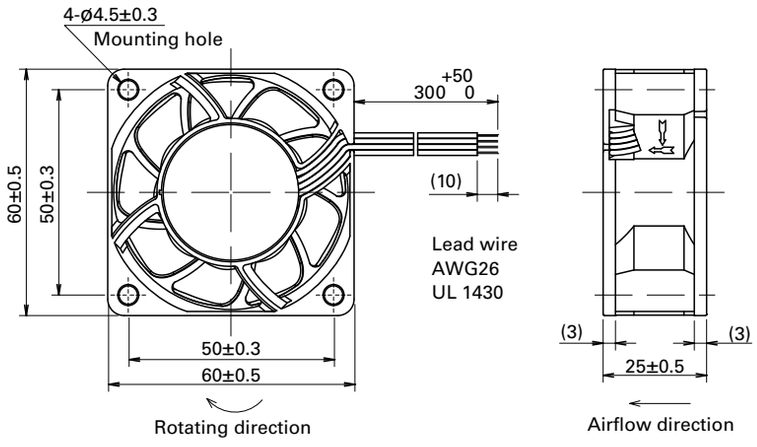



PWM duty - Speed characteristics example



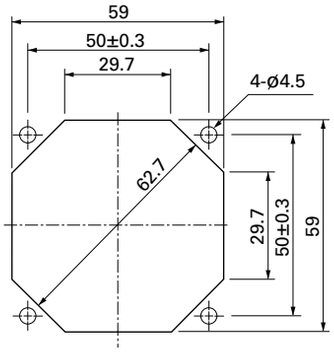



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## Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)

Inlet side, Outlet side




## Options

**Finger guards** page: p. 598

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

**Resin filter kits** page: p. 606

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

**Resin finger guards** page: p. 605

Model no.: 109-1003G



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