



# 80×80×38 mm

**San Ace 80 9GA type** Low Power Consumption Fan

## 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)
- 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 ..... 160 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]		
<b>9GA0812P1G61</b>	12	10.8 to 13.2	100	1.2	14.4	10500	2.85 100.6	480 1.93	60	-20 to +70	40000/60°C (70000/40°C)		
			0	0.04	0.48	2000	0.51 18.0	28.7 0.11	21				
<b>9GA0812P1S61</b>			100	0.94	11.28	9550	2.6 91.8	480 1.93	59				
			0	0.1	1.2	2900	0.74 26.1	60 0.24	27				
<b>9GA0812P1H61</b>			100	0.6	7.2	8250	2.25 79.4	380 1.53	55				
			0	0.08	0.96	2500	0.64 22.6	45 0.18	24				
<b>9GA0824P1S61</b>	24	20.4 to 27.6	100	0.47	11.28	9550	2.6 91.8	480 1.93	59				
			0	0.06	1.44	2900	0.74 26.1	60 0.24	27				
<b>9GA0824P1H61</b>			100	0.3	7.2	8250	2.25 79.4	380 1.53	55				
			0	0.05	1.2	2500	0.64 22.6	45 0.18	24				
<b>9GA0848P1S61</b>			48	40.8 to 55.2	100	0.25	12	9550	2.6 91.8			480 1.93	59
					0	0.04	1.92	2900	0.74 26.1			60 0.24	27

\* PWM frequency: 25 kHz

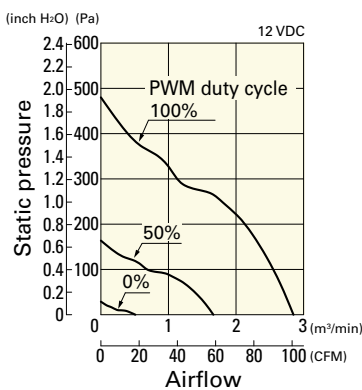
The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on pp. 571 to 572. Without sensor Pulse sensor Lock sensor

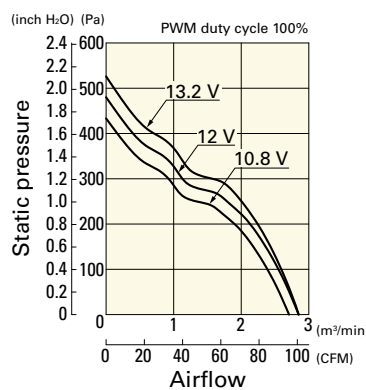
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0812P1G61** With pulse sensor with PWM control function

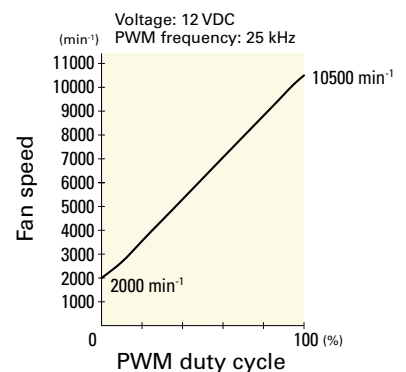
PWM duty cycle



Operating voltage range



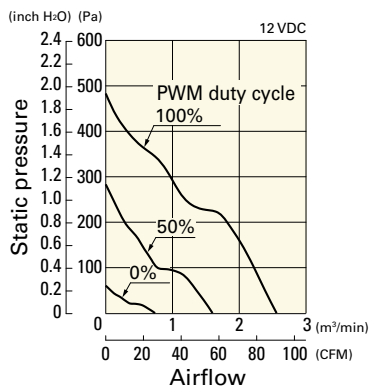
PWM duty - Speed characteristics example



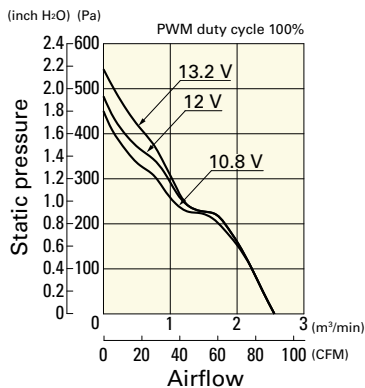
### Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0812P1S61** With pulse sensor with PWM control function

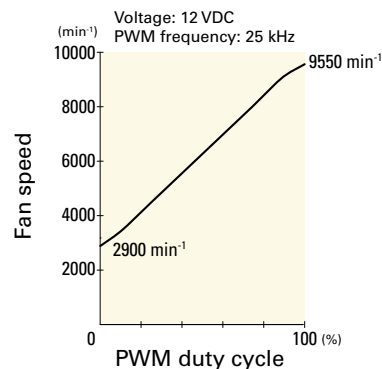
PWM duty cycle



Operating voltage range

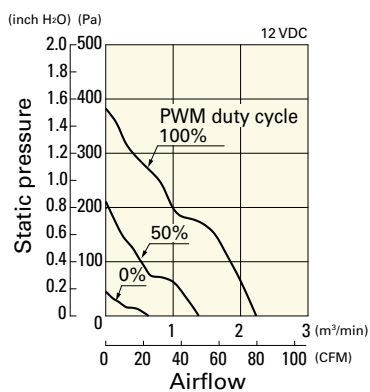


PWM duty - Speed characteristics example

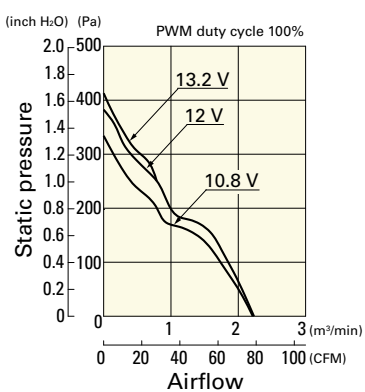


**9GA0812P1H61** With pulse sensor with PWM control function

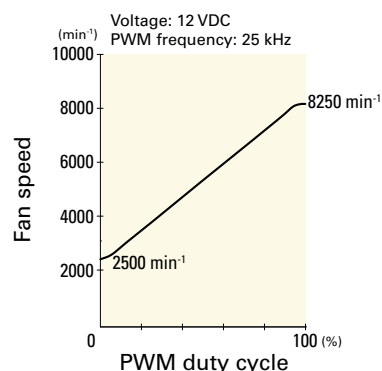
PWM duty cycle



Operating voltage range

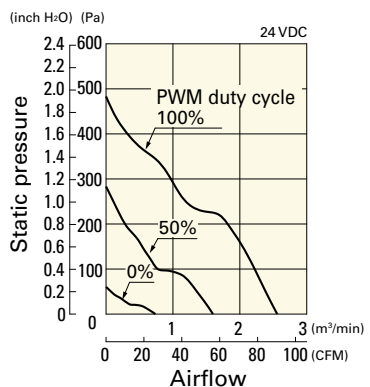


PWM duty - Speed characteristics example

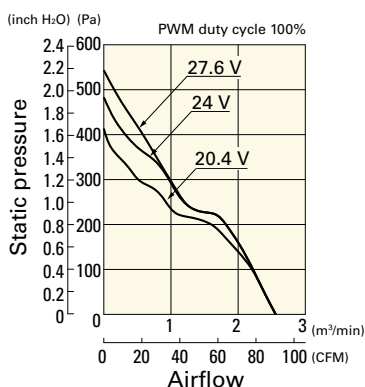


**9GA0824P1S61** With pulse sensor with PWM control function

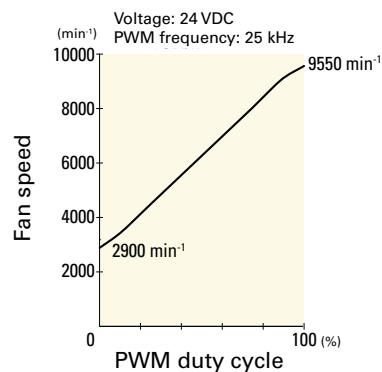
PWM duty cycle



Operating voltage range

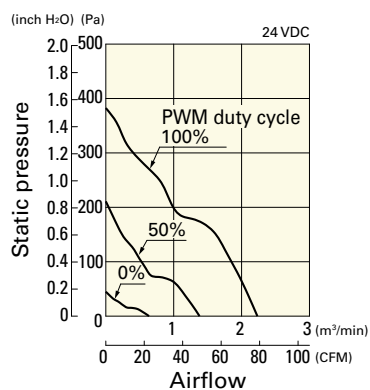


PWM duty - Speed characteristics example

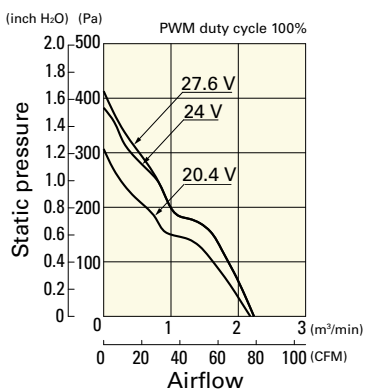


**9GA0824P1H61** With pulse sensor with PWM control function

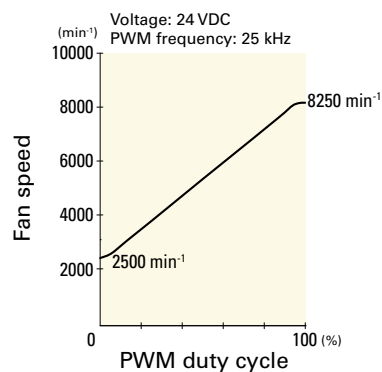
PWM duty cycle



Operating voltage range



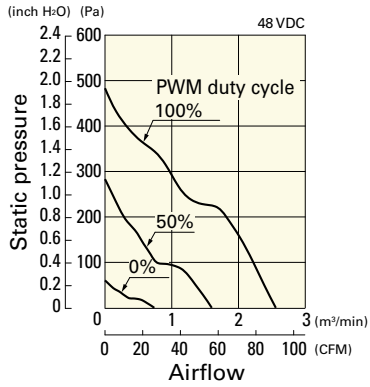
PWM duty - Speed characteristics example



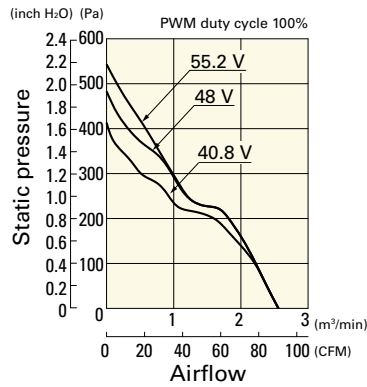
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0848P1S61 With pulse sensor with PWM control function

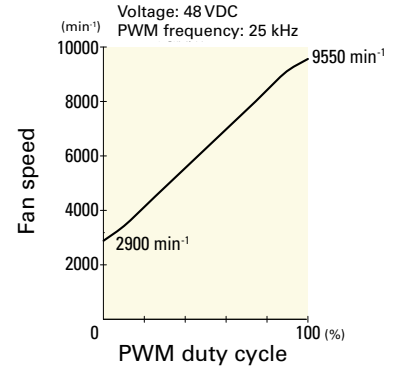
PWM duty cycle



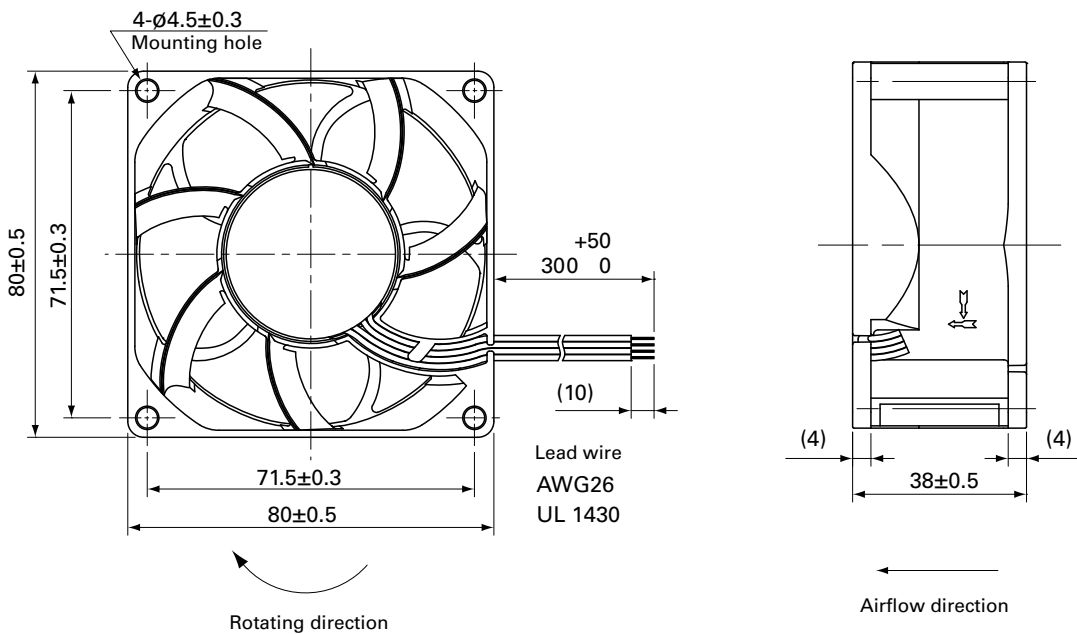
Operating voltage range



PWM duty - Speed characteristics example



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



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

