



120×120×38 mm

San Ace 120L 9LG type

General Specifications

- Material Frame: Aluminum, 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. 529.
- 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 420 g

Specifications

The models listed below **have pulse sensors with PWM control function.**

| Model no. | Rated voltage [V] | Operating voltage range [V] | PWM duty cycle* [%] | Rated current [A] | Rated input [W] | Rated speed [min ⁻¹] | Max. airflow [m ³ /min] [CFM] | Max. static pressure [Pa] [inchH ₂ O] | SPL [dB (A)] | Operating temperature [°C] | Expected life [h] |
|---------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|--|--|--------------|----------------------------|-------------------|
| 9LG1212P1G001 | 12 | 8.0 to 13.8 | 100 | 3.2 | 38.4 | 6550 | 7.0 247.1 | 370 1.48 | 62 | -20 to +70 | 180000/60°C |
| | | | 20 | 0.24 | 2.88 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |
| 9LG1212P1S001 | | | 100 | 2.2 | 26.4 | 5600 | 6.0 211.8 | 270 1.08 | 58 | | |
| | | | 20 | 0.24 | 2.88 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |
| 9LG1212P1H001 | | | 100 | 1.4 | 16.8 | 4700 | 5.0 176.5 | 190 0.76 | 54 | | |
| | | | 20 | 0.24 | 2.88 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |
| 9LG1224P1G001 | 24 | 15 to 30 | 100 | 1.6 | 38.4 | 6550 | 7.0 247.1 | 370 1.48 | 62 | | |
| | | | 20 | 0.12 | 2.88 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |
| 9LG1224P1S001 | | | 100 | 1.1 | 26.4 | 5600 | 6.0 211.8 | 270 1.08 | 58 | | |
| | | | 20 | 0.12 | 2.88 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |
| 9LG1224P1H001 | | | 100 | 0.7 | 16.8 | 4700 | 5.0 176.5 | 190 0.76 | 54 | | |
| | | | 20 | 0.12 | 2.88 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |
| 9LG1248P1G001 | 48 | 36 to 60 | 100 | 0.8 | 38.4 | 6550 | 7.0 247.1 | 370 1.48 | 62 | | |
| | | | 20 | 0.08 | 3.84 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |
| 9LG1248P1S001 | | | 100 | 0.55 | 26.4 | 5600 | 6.0 211.8 | 270 1.08 | 58 | | |
| | | | 20 | 0.08 | 3.84 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |
| 9LG1248P1H001 | | | 100 | 0.35 | 16.8 | 4700 | 5.0 176.5 | 190 0.76 | 54 | | |
| | | | 20 | 0.08 | 3.84 | 2000 | 2.13 75.2 | 34.4 0.13 | 36 | | |

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

Other sensor specifications are available as options. Refer to the index (pp. 556 to 557).

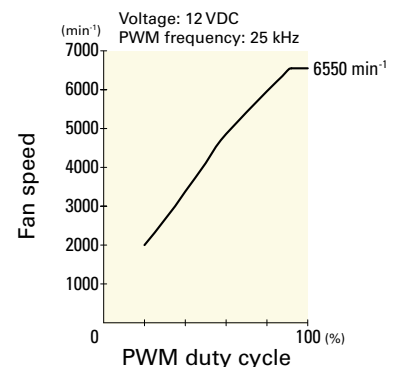
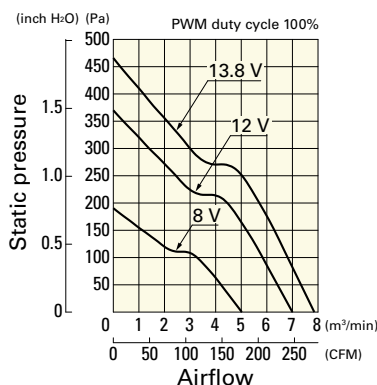
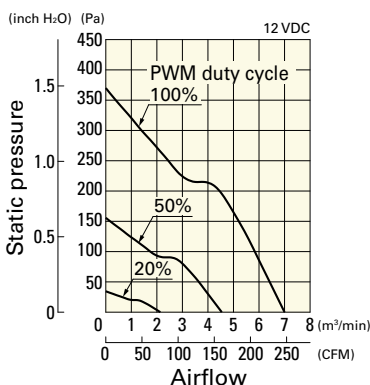
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1212P1G001 With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

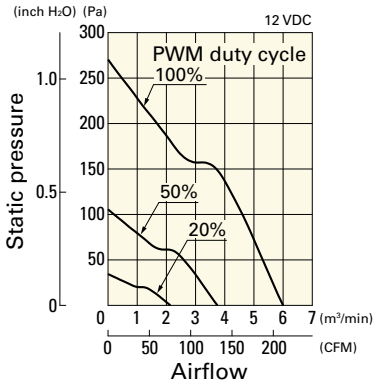
PWM duty - Speed characteristics example



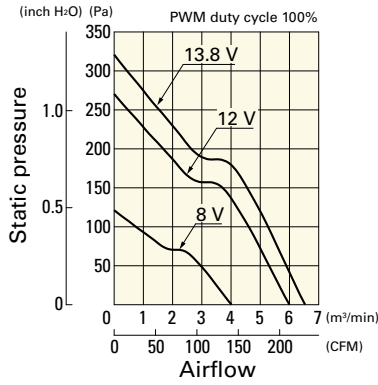
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1212P1S001 With pulse sensor with PWM control function

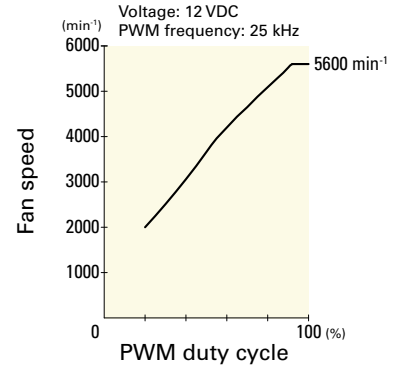
PWM duty cycle



Operating voltage range

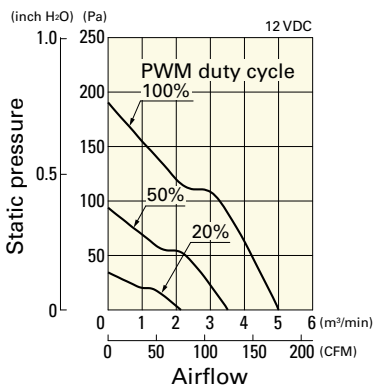


PWM duty - Speed characteristics example

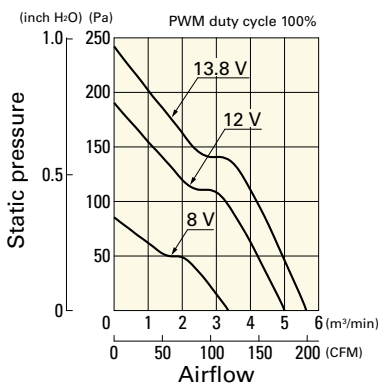


9LG1212P1H001 With pulse sensor with PWM control function

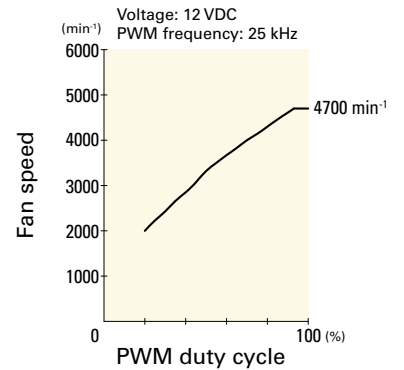
PWM duty cycle



Operating voltage range

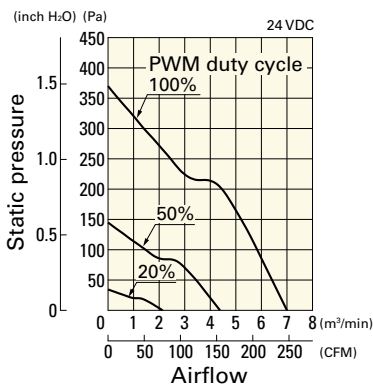


PWM duty - Speed characteristics example

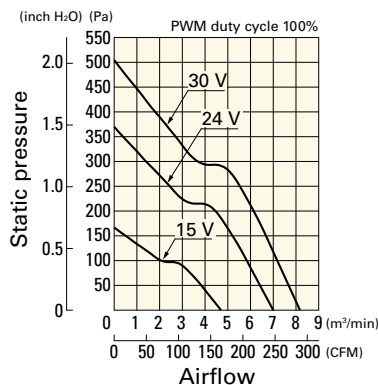


9LG1224P1G001 With pulse sensor with PWM control function

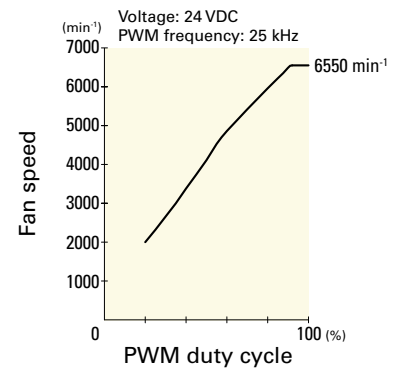
PWM duty cycle



Operating voltage range

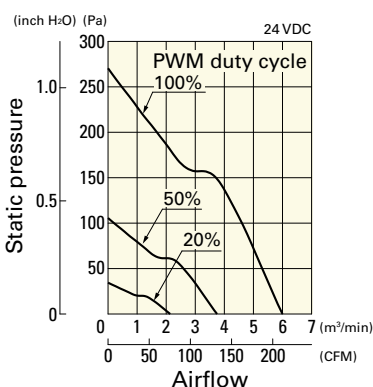


PWM duty - Speed characteristics example

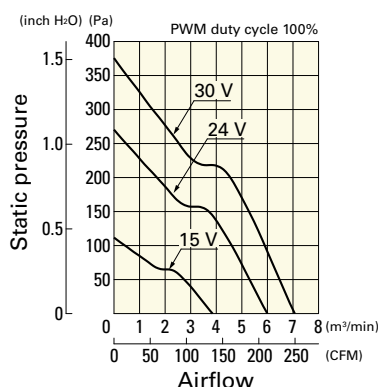


9LG1224P1S001 With pulse sensor with PWM control function

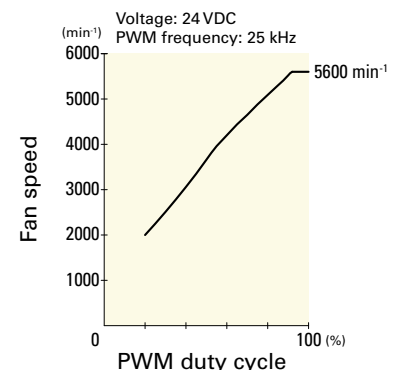
PWM duty cycle



Operating voltage range



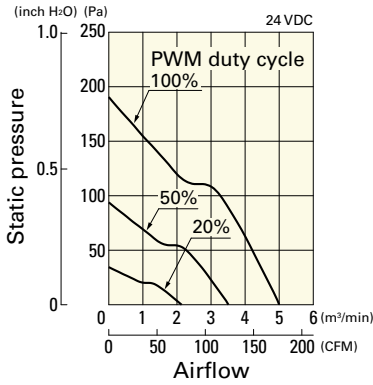
PWM duty - Speed characteristics example



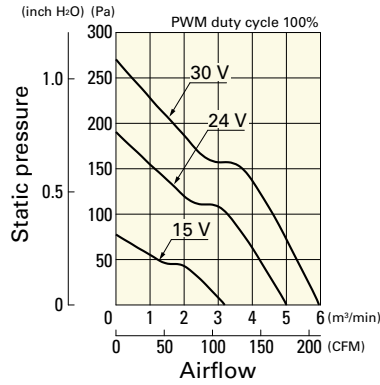
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1224P1H001 With pulse sensor with PWM control function

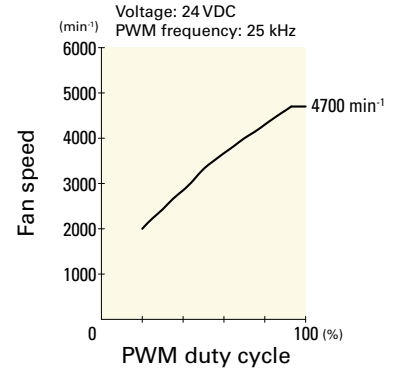
PWM duty cycle



Operating voltage range

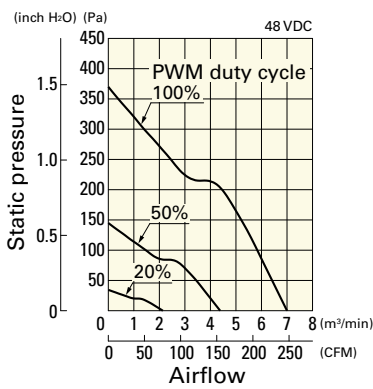


PWM duty - Speed characteristics example

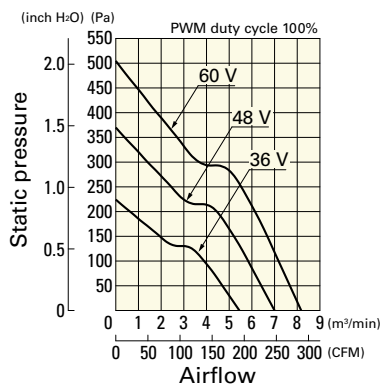


9LG1248P1G001 With pulse sensor with PWM control function

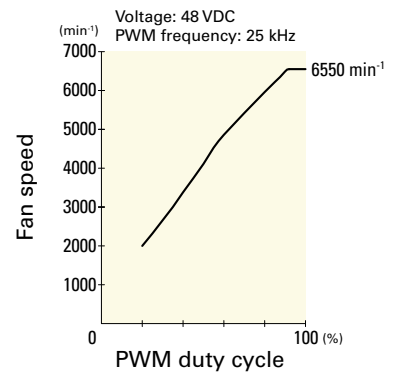
PWM duty cycle



Operating voltage range

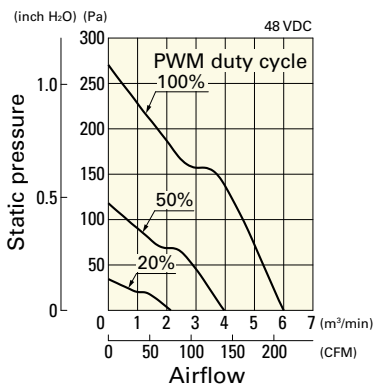


PWM duty - Speed characteristics example

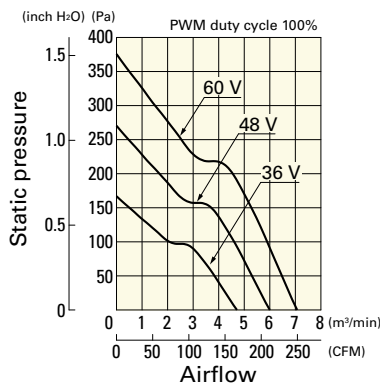


9LG1248P1S001 With pulse sensor with PWM control function

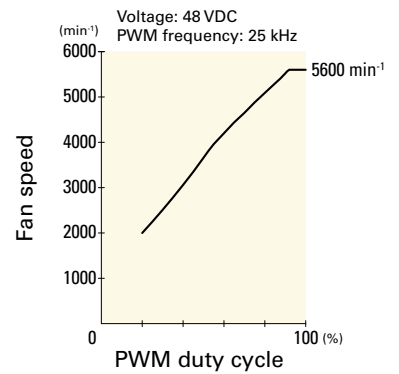
PWM duty cycle



Operating voltage range

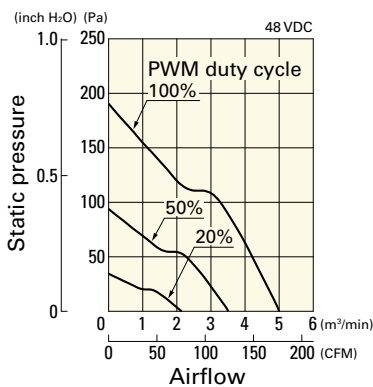


PWM duty - Speed characteristics example

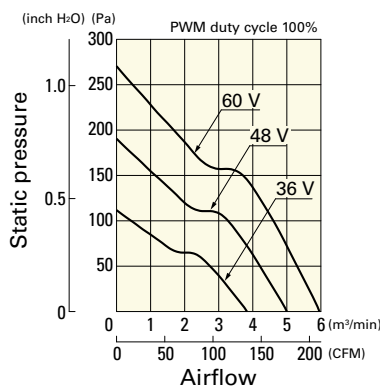


9LG1248P1H001 With pulse sensor with PWM control function

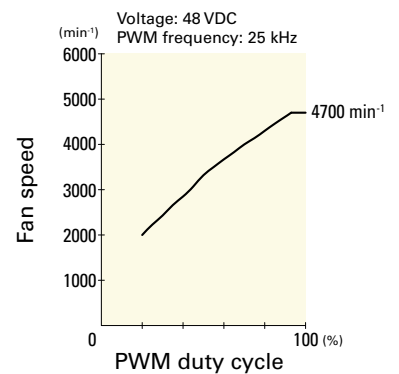
PWM duty cycle



Operating voltage range



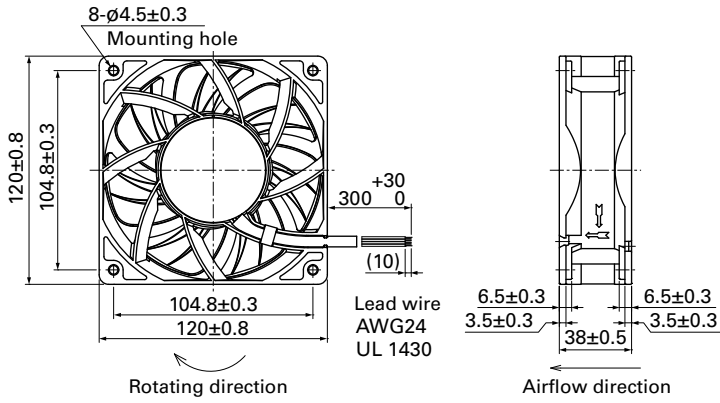
PWM duty - Speed characteristics example



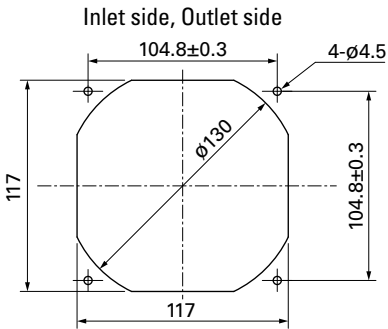
DC

Long Life Fan 120 mm sq.

■ Dimensions (unit: mm)



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



■ Options

Finger guards

page: p. 514

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

Resin finger guards

page: p. 520

Model no.: 109-1000G

Resin filter kits

page: p. 521

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