



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 [m³/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).

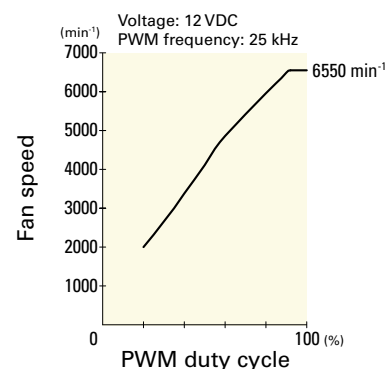
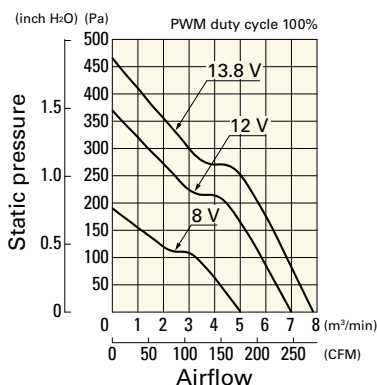
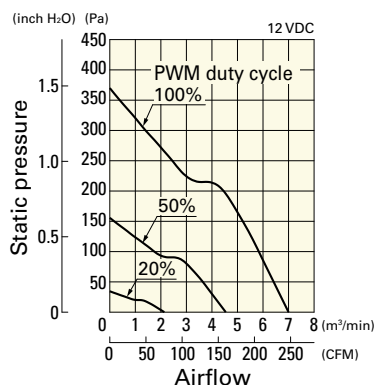
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1212P1G001 With pulse sensor with PWM control function

PWM duty cycle

Operating voltage range

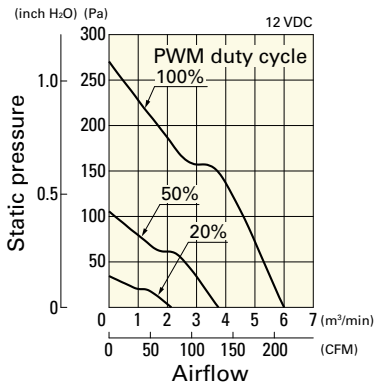
PWM duty - Speed characteristics example



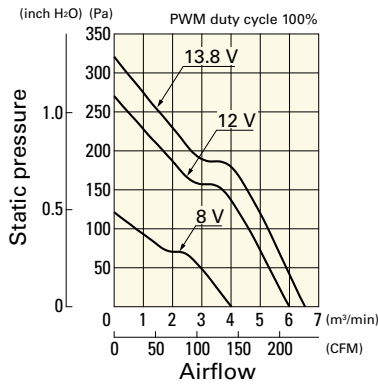
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1212P1S001 With pulse sensor with PWM control function

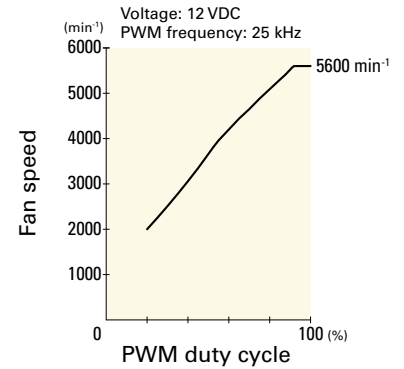
PWM duty cycle



Operating voltage range

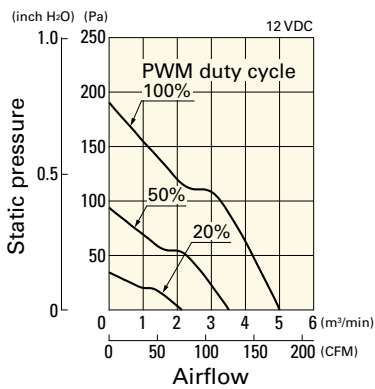


PWM duty - Speed characteristics example

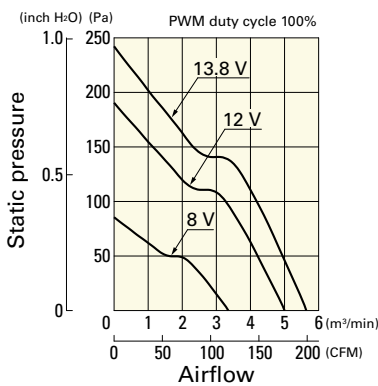


9LG1212P1H001 With pulse sensor with PWM control function

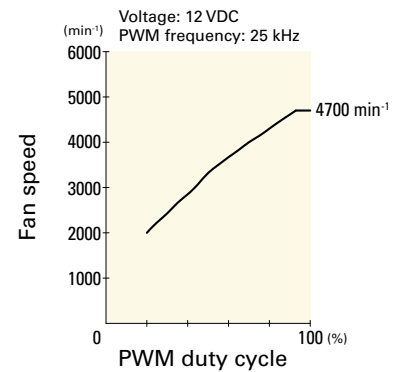
PWM duty cycle



Operating voltage range

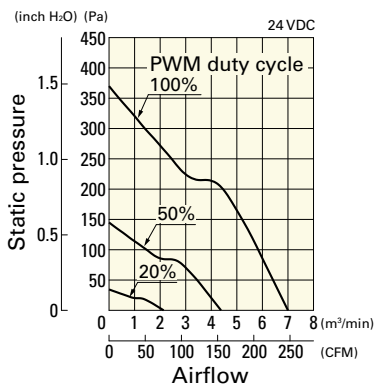


PWM duty - Speed characteristics example

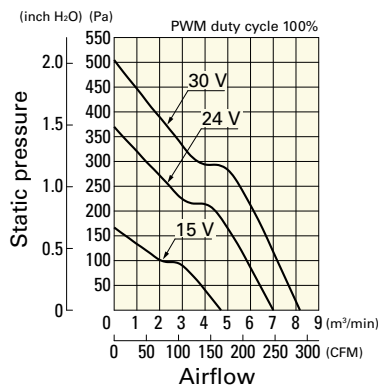


9LG1224P1G001 With pulse sensor with PWM control function

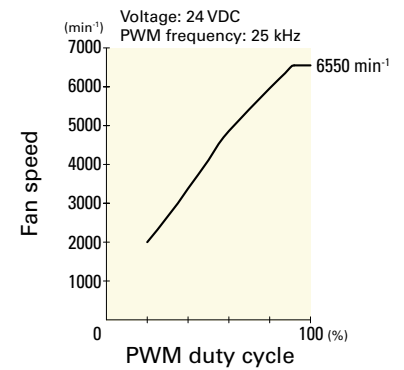
PWM duty cycle



Operating voltage range

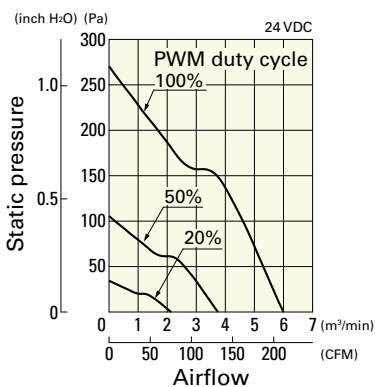


PWM duty - Speed characteristics example

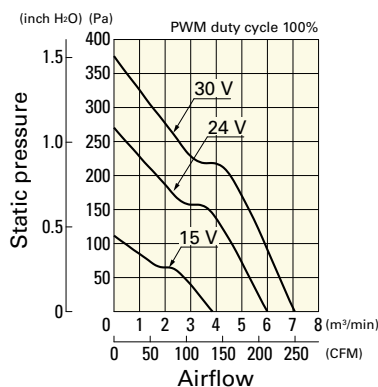


9LG1224P1S001 With pulse sensor with PWM control function

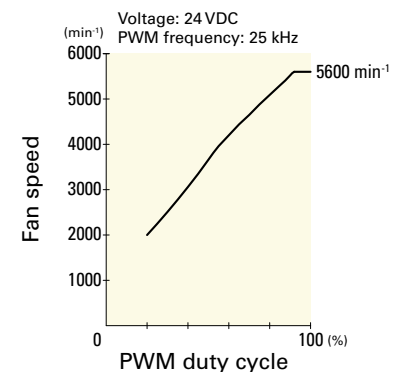
PWM duty cycle



Operating voltage range



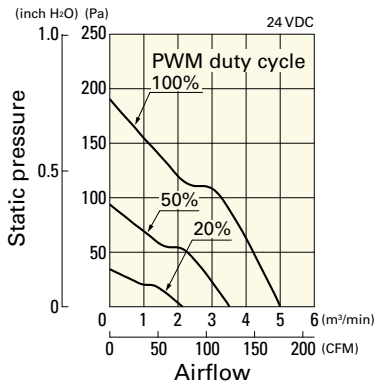
PWM duty - Speed characteristics example



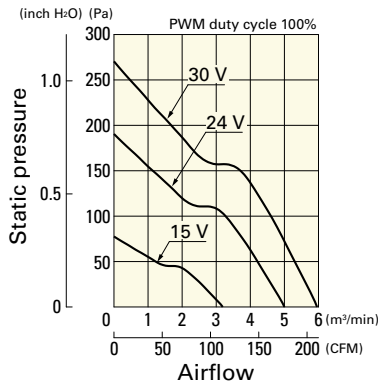
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1224P1H001 With pulse sensor with PWM control function

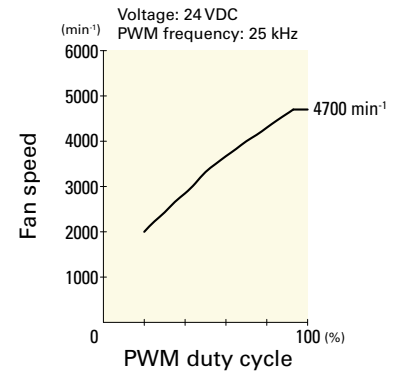
PWM duty cycle



Operating voltage range

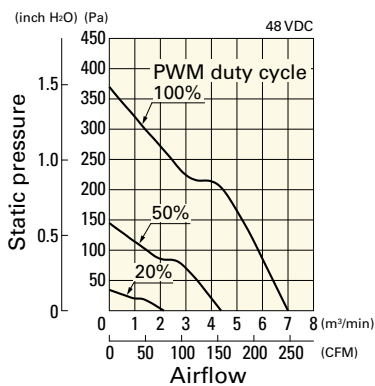


PWM duty - Speed characteristics example

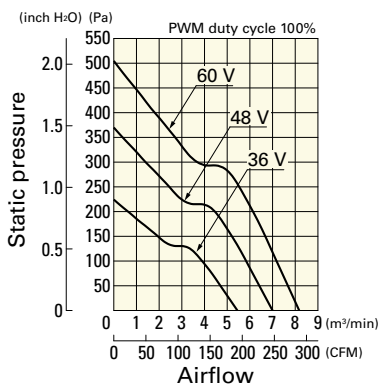


9LG1248P1G001 With pulse sensor with PWM control function

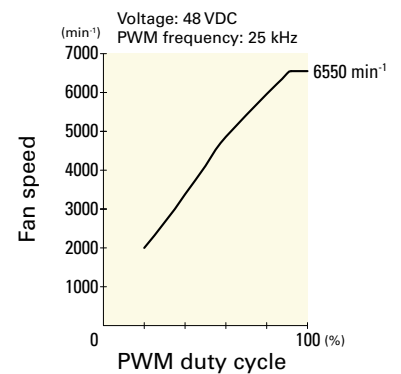
PWM duty cycle



Operating voltage range

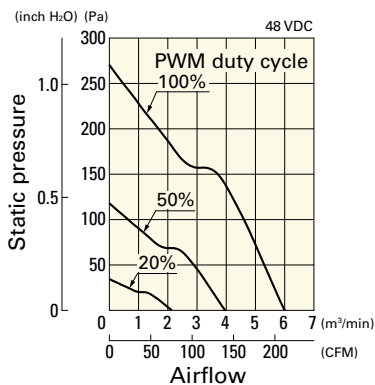


PWM duty - Speed characteristics example

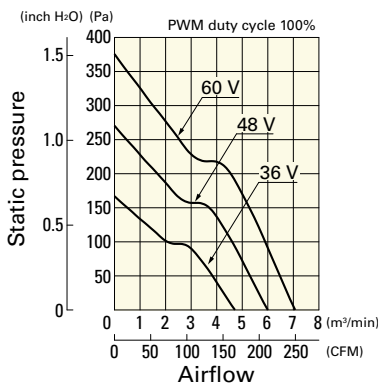


9LG1248P1S001 With pulse sensor with PWM control function

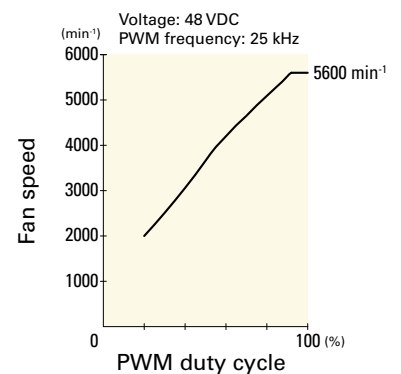
PWM duty cycle



Operating voltage range

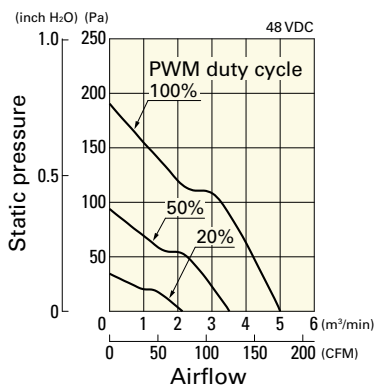


PWM duty - Speed characteristics example

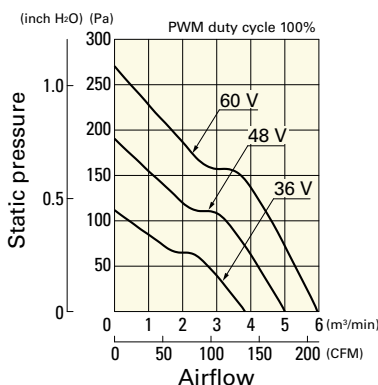


9LG1248P1H001 With pulse sensor with PWM control function

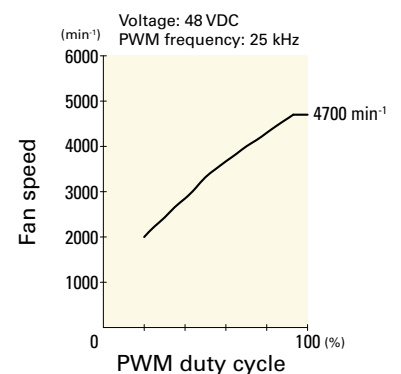
PWM duty cycle



Operating voltage range



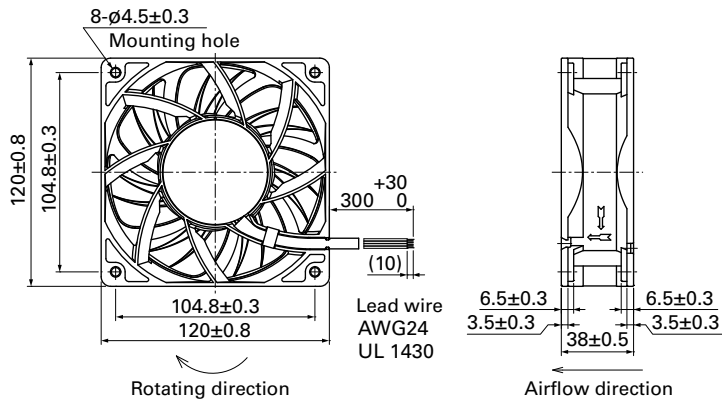
PWM duty - Speed characteristics example



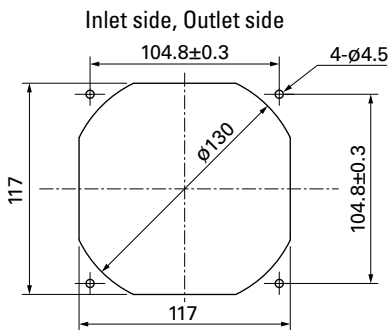
DC

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)