60×60×25 mm

San Ace 60L 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) 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. 614.
- 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 ..... 100 g

Specifications

The models listed below **have 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]
9LG0612P4S001	12	10.8 to 13.2	100	0.67	8.04	11000	1.4	49.4	300	1.204	53	-20 to +70	180000/60˚C (215000/40˚C)
			20	0.06	0.72	2900	0.36	12.7	20.8	0.083	20		
9LG0612P4J001			100	0.39	4.68	8650	1.1	38.8	182	0.73	47		
			25	0.04	0.48	2100	0.26	9.1	10.7	0.042	17		
9LG0612P4H001			100	0.17	2.04	6150	0.78	27.5	97	0.389	35		
			25	0.03	0.36	1350	0.17	6.0	4.7	0.018	14		
9LG0612P4M001			100	0.09	1.08	4200	0.53	18.7	45	0.18	24		
			25	0.03	0.36	900	0.11	3.8	2.0	0.008	14		
9LG0624P4S001	24	21.6 to 26.4	100	0.34	8.16	11000	1.4	49.4	300	1.204	53		
			20	0.03	0.72	2900	0.36	12.7	20.8	0.083	20		
9LG0624P4J001			100	0.19	4.56	8650	1.1	38.8	182	0.73	47		
			20	0.02	0.48	2200	0.28	9.8	12.0	0.048	17		
9LG0624P4H001			100	0.08	1.92	6150	0.78	27.5	97	0.389	35		
			20	0.02	0.48	1300	0.16	5.6	4.3	0.017	14		
9LG0624P4M001			100	0.04	0.96	4200	0.53	18.7	45	0.18	24		
			20	0.01	0.24	800	0.1	3.5	1.6	0.006	14		
9LG0648P4S001	48	36 to 72	100	0.18	8.64	11000	1.4	49.4	305	1.224	53		
			20	0.02	0.96	2900	0.36	12.7	20.8	0.083	20		
9LG0648P4J001			100	0.1	4.8	8650	1.1	38.8	182	0.73	47		
			20	0.02	0.96	2100	0.26	9.1	10.7	0.042	17		
9LG0648P4H001			100	0.06	2.88	6150	0.78	27.5	97	0.389	35		
			20	0.02	0.96	1000	0.12	4.2	2.5	0.01	14		
9LG0648P4M001			100	0.04	1.92	4200	0.53	18.7	45	0.18	24		
			20	0.02	0.96	650	0.08	2.8	1.0	0.004	14		

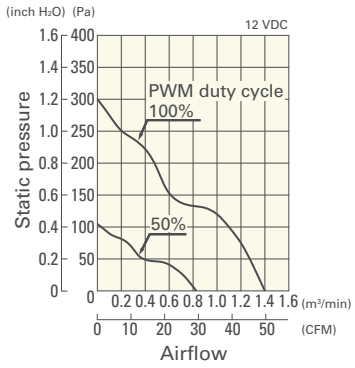
* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

Note 1: Sensor and control options are available for selection. Refer to the table on pp. 647 to 648.
Note 2: The ⟫ mark indicates Short LeadTime Service applicable models. See p. 668 for details.

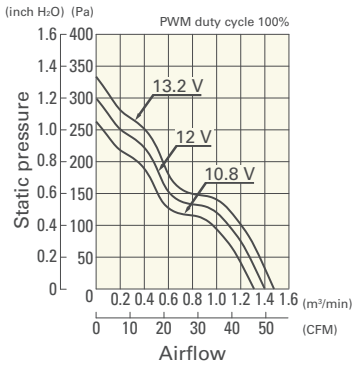
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0612P4S001 With pulse sensor with PWM control

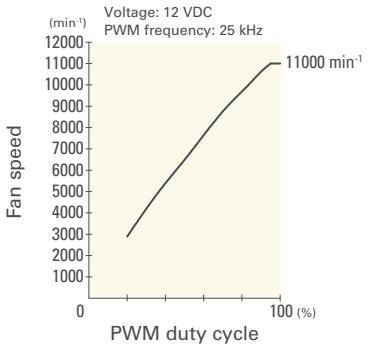
PWM duty cycle



Operating voltage range

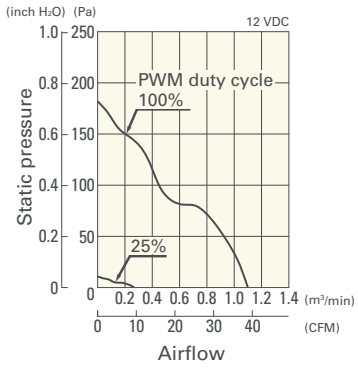


PWM duty - Speed characteristics example

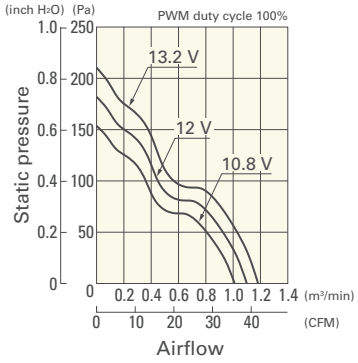


9LG0612P4J001 With pulse sensor with PWM control

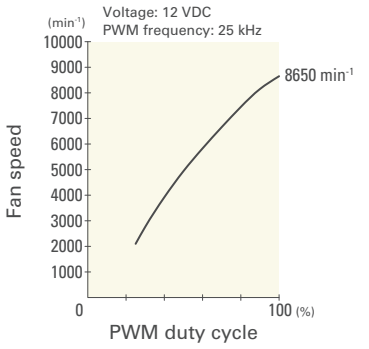
PWM duty cycle



Operating voltage range

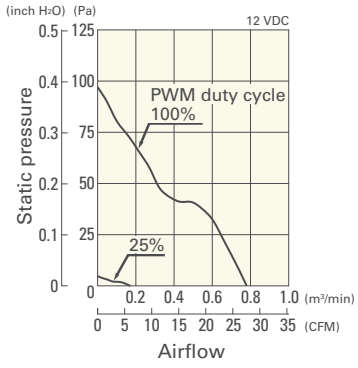


PWM duty - Speed characteristics example

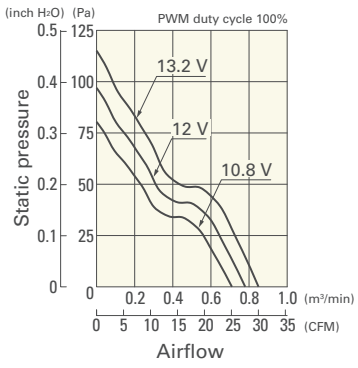


9LG0612P4H001 With pulse sensor with PWM control

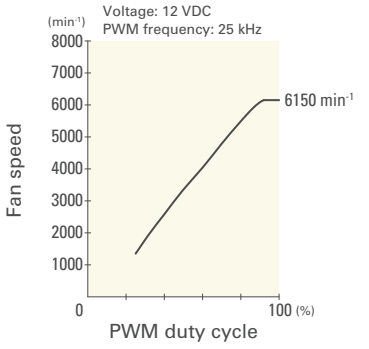
PWM duty cycle



Operating voltage range

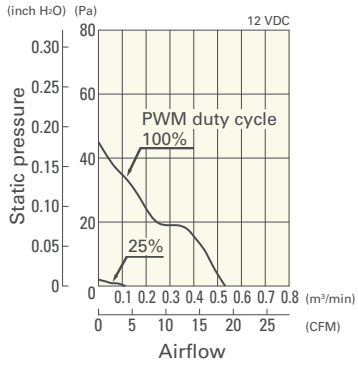


PWM duty - Speed characteristics example

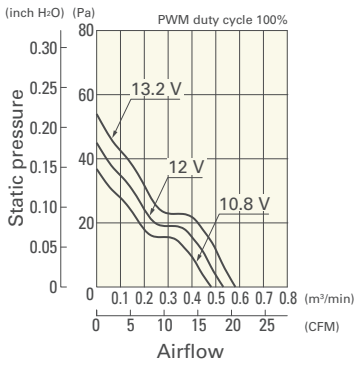


9LG0612P4M001 With pulse sensor with PWM control

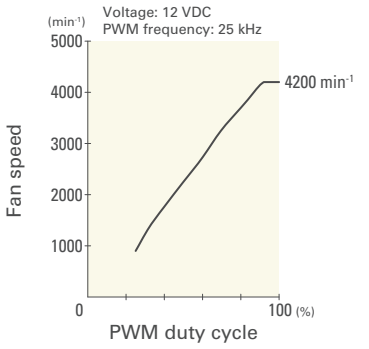
PWM duty cycle



Operating voltage range



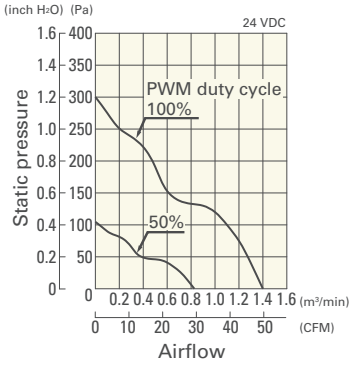
PWM duty - Speed characteristics example



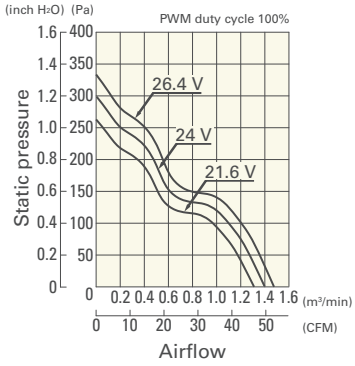
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0624P4S001 With pulse sensor with PWM control

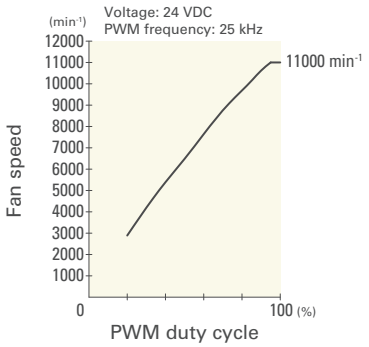
PWM duty cycle



Operating voltage range

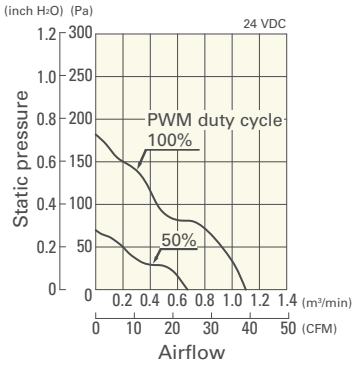


PWM duty - Speed characteristics example

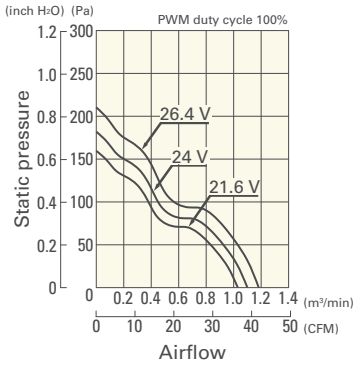


9LG0624P4J001 With pulse sensor with PWM control

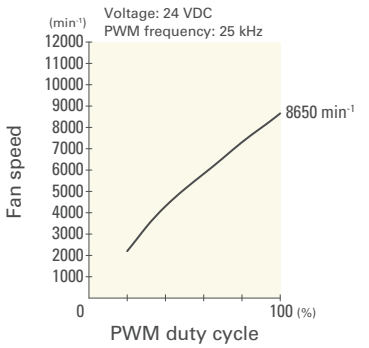
PWM duty cycle



Operating voltage range

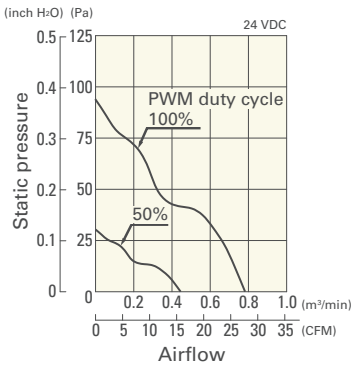


PWM duty - Speed characteristics example

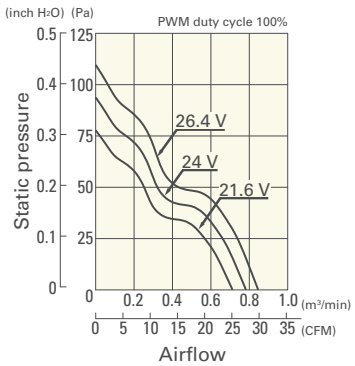


9LG0624P4H001 With pulse sensor with PWM control

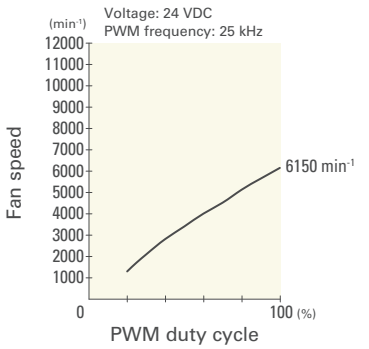
PWM duty cycle



Operating voltage range

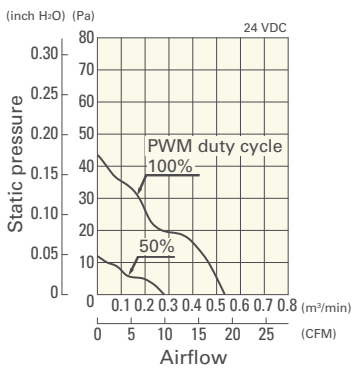


PWM duty - Speed characteristics example

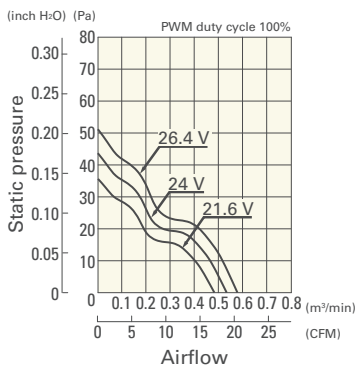


9LG0624P4M001 With pulse sensor with PWM control

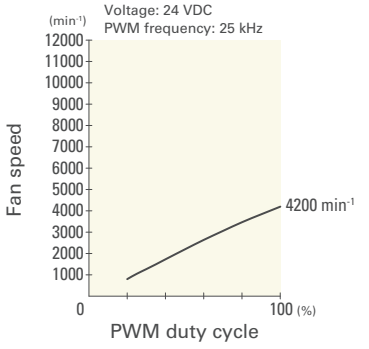
PWM duty cycle



Operating voltage range



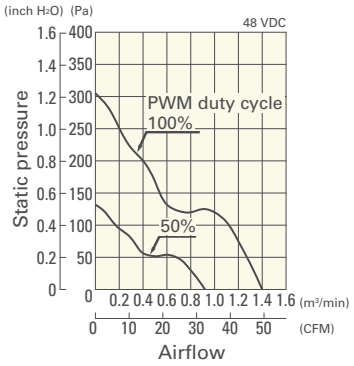
PWM duty - Speed characteristics example



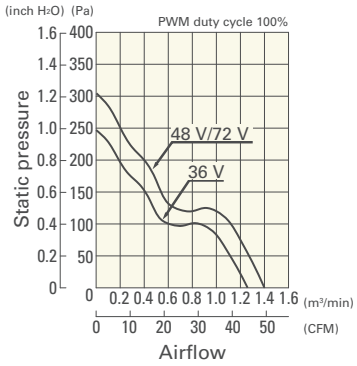
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0648P4S001 With pulse sensor with PWM control

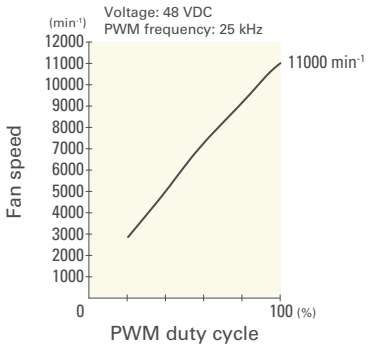
PWM duty cycle



Operating voltage range

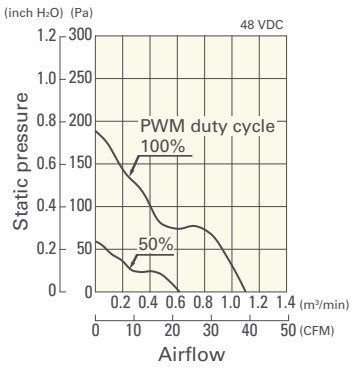


PWM duty - Speed characteristics example

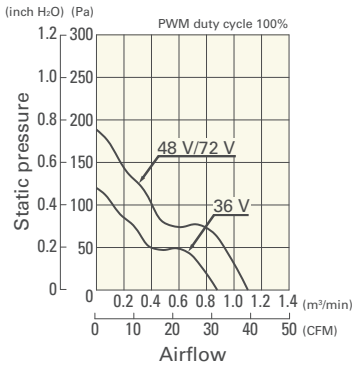


9LG0648P4J001 With pulse sensor with PWM control

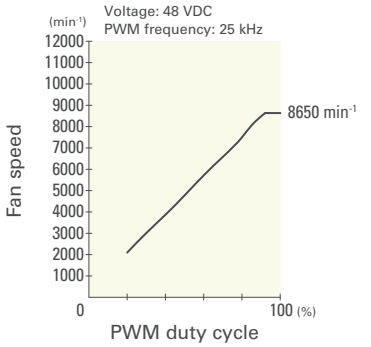
PWM duty cycle



Operating voltage range

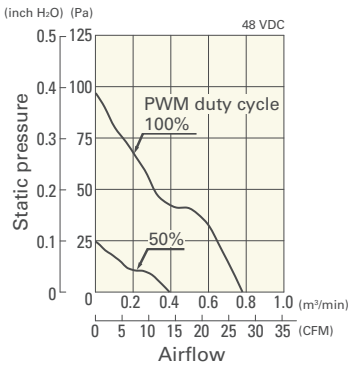


PWM duty - Speed characteristics example

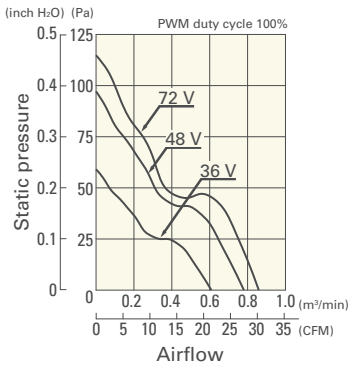


9LG0648P4H001 With pulse sensor with PWM control

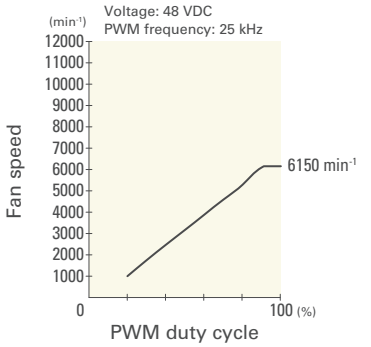
PWM duty cycle



Operating voltage range

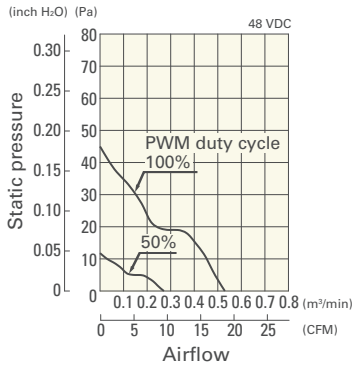


PWM duty - Speed characteristics example

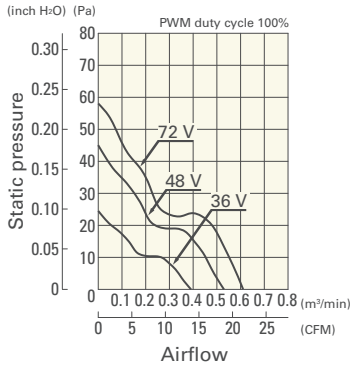


9LG0648P4M001 With pulse sensor with PWM control

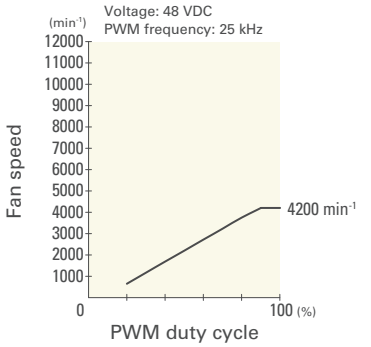
PWM duty cycle



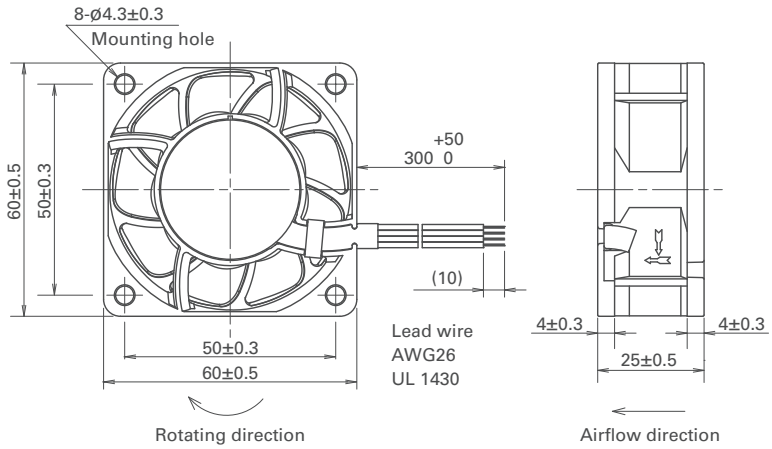
Operating voltage range



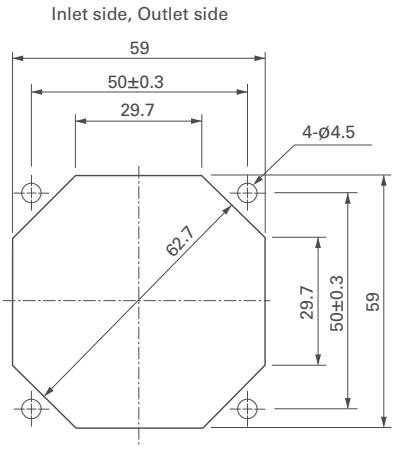
PWM duty - Speed characteristics example



Dimensions (unit: mm)



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



Options

Finger guards page: p. 598

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

Resin finger guards page: p. 605

Model no.: 109-1003G

Resin filter kits page: p. 606

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