



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)
- 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 100 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]	
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	
			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
				20	0.03	0.36	1150	0.13 4.8	3.3 0.013			14
			9LG0612P4H001	100	0.17	2.04	6150	0.78 27.5	97 0.389			35
				20	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					
	20	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: 25 kHz. Fan does not rotate when PWM duty cycle is 0%.

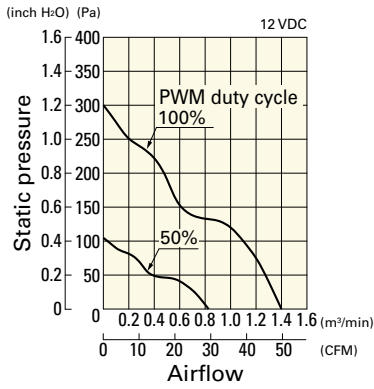
The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on p. 576. Without sensor Pulse sensor Lock sensor

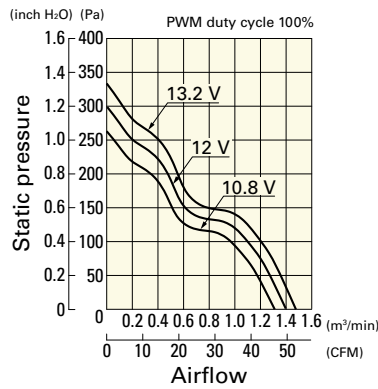
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0612P4S001 With pulse sensor with PWM control function

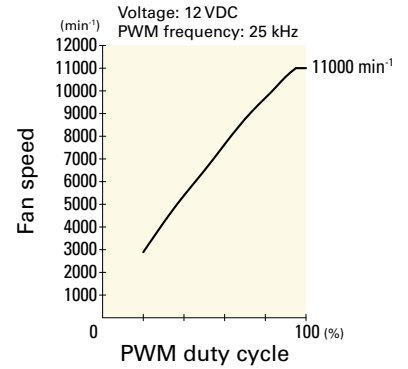
PWM duty cycle



Operating voltage range

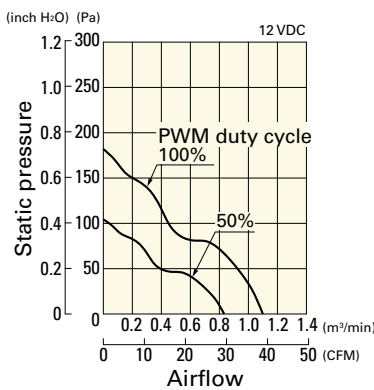


PWM duty - Speed characteristics example

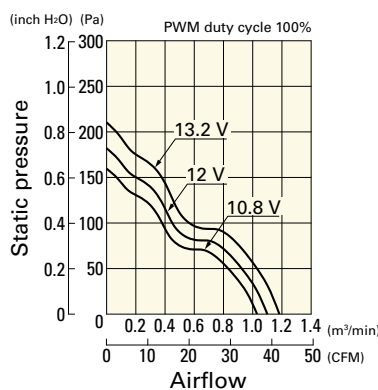


9LG0612P4J001 With pulse sensor with PWM control function

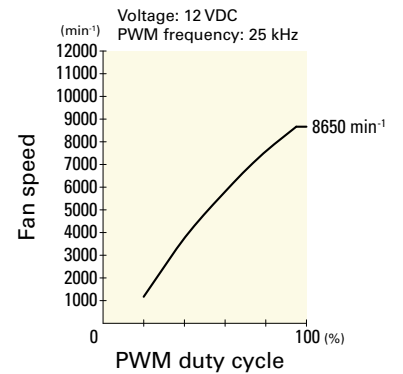
PWM duty cycle



Operating voltage range

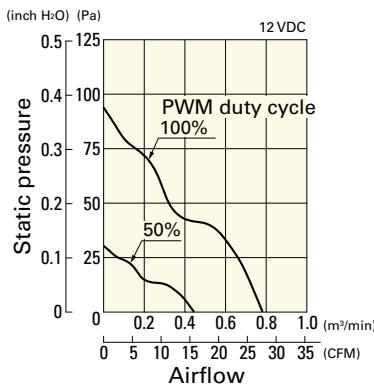


PWM duty - Speed characteristics example

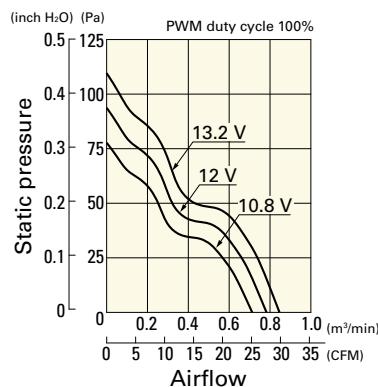


9LG0612P4H001 With pulse sensor with PWM control function

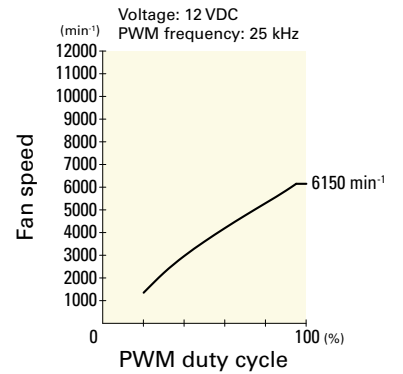
PWM duty cycle



Operating voltage range

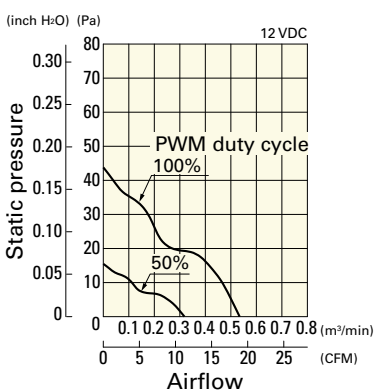


PWM duty - Speed characteristics example

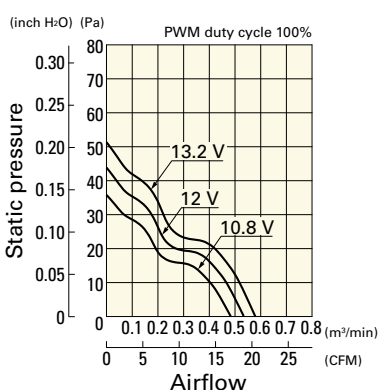


9LG0612P4M001 With pulse sensor with PWM control function

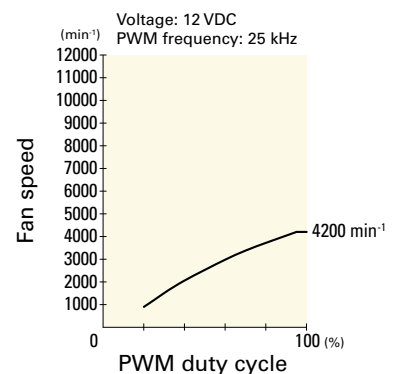
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



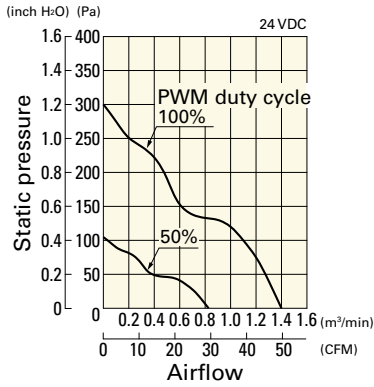
DC

Long Life Fan 60 mm sq.

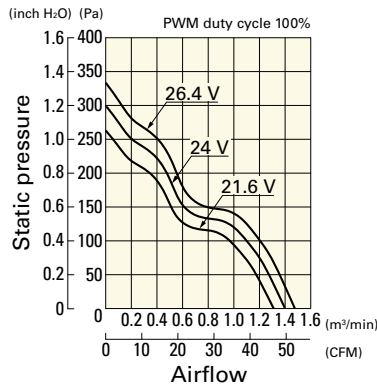
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0624P4S001 With pulse sensor with PWM control function

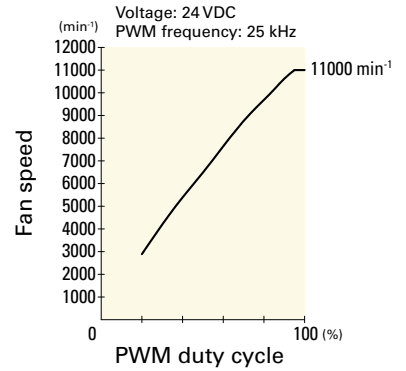
PWM duty cycle



Operating voltage range

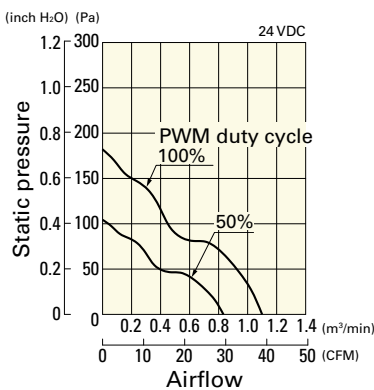


PWM duty - Speed characteristics example

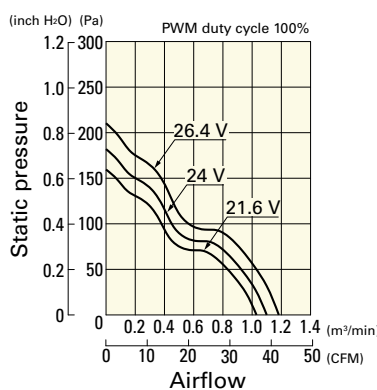


9LG0624P4J001 With pulse sensor with PWM control function

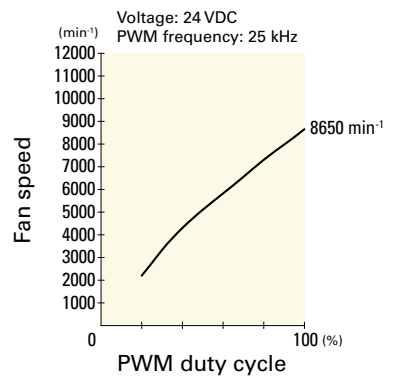
PWM duty cycle



Operating voltage range

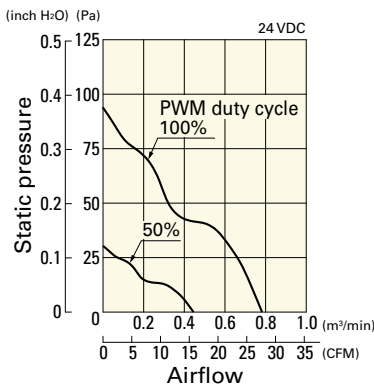


PWM duty - Speed characteristics example

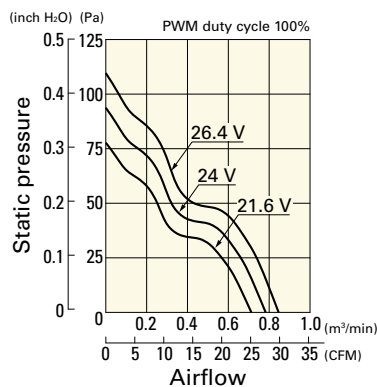


9LG0624P4H001 With pulse sensor with PWM control function

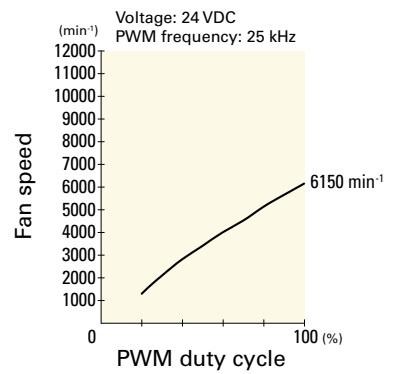
PWM duty cycle



Operating voltage range

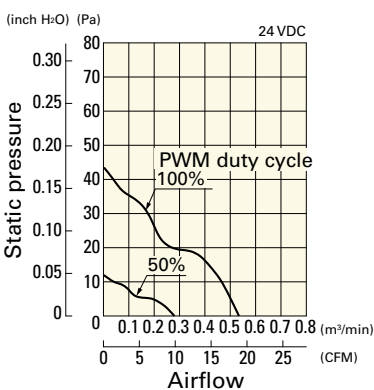


PWM duty - Speed characteristics example

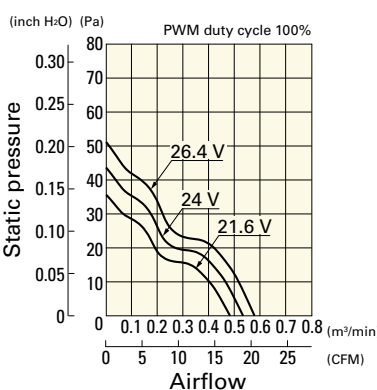


9LG0624P4M001 With pulse sensor with PWM control function

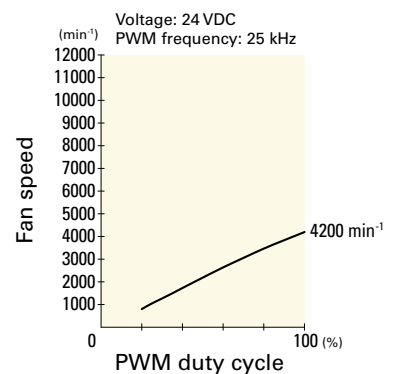
PWM duty cycle



Operating voltage range



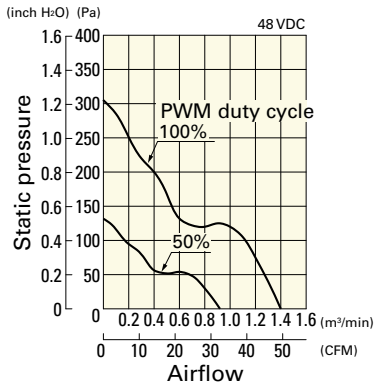
PWM duty - Speed characteristics example



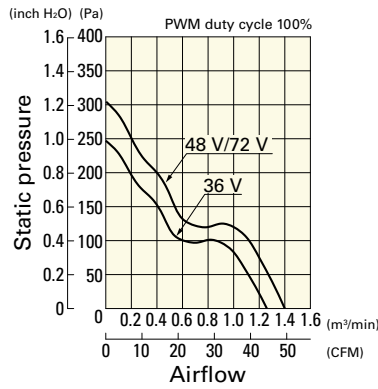
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0648P4S001 With pulse sensor with PWM control function

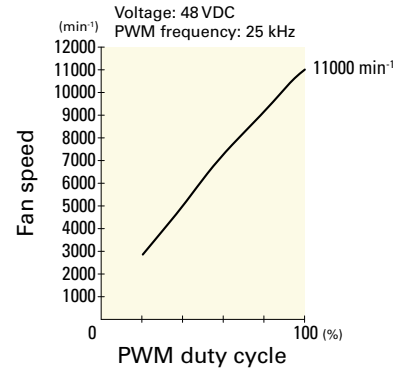
PWM duty cycle



Operating voltage range

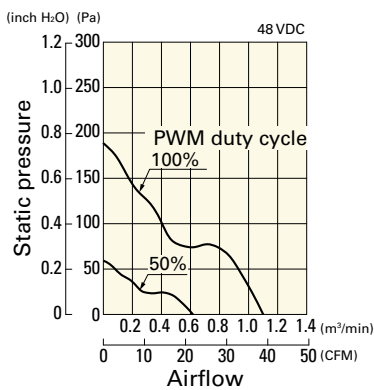


PWM duty - Speed characteristics example

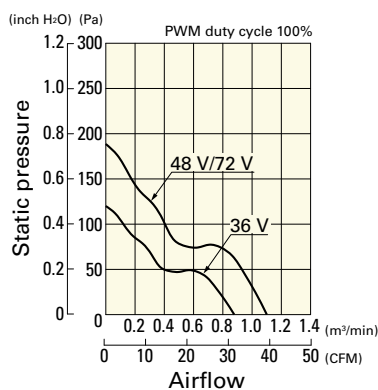


9LG0648P4J001 With pulse sensor with PWM control function

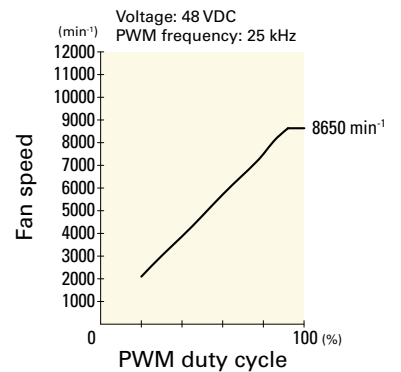
PWM duty cycle



Operating voltage range

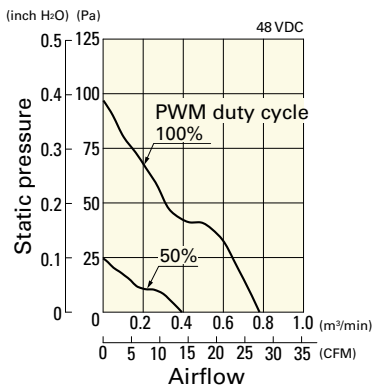


PWM duty - Speed characteristics example

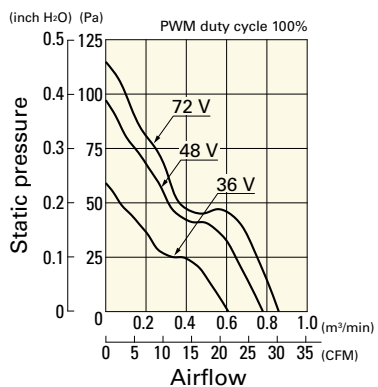


9LG0648P4H001 With pulse sensor with PWM control function

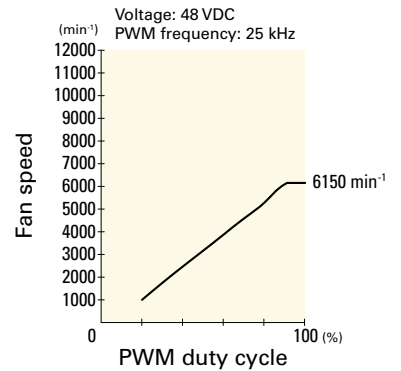
PWM duty cycle



Operating voltage range

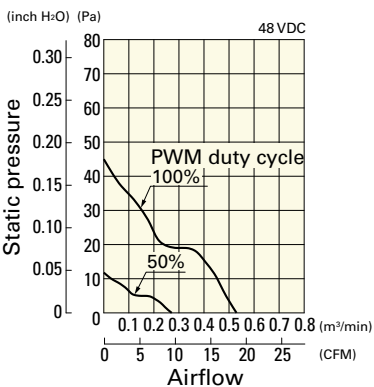


PWM duty - Speed characteristics example

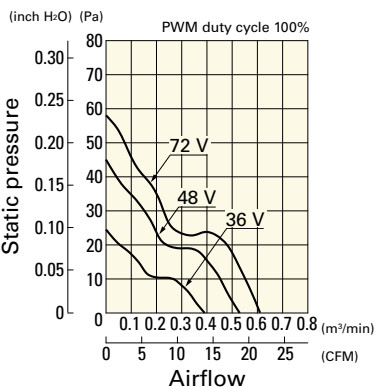


9LG0648P4M001 With pulse sensor with PWM control function

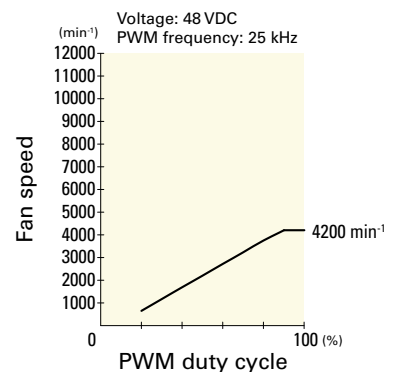
PWM duty cycle



Operating voltage range



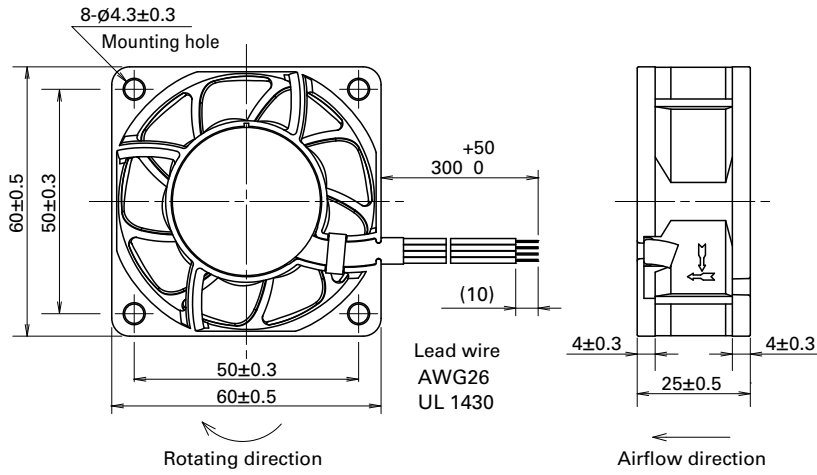
PWM duty - Speed characteristics example



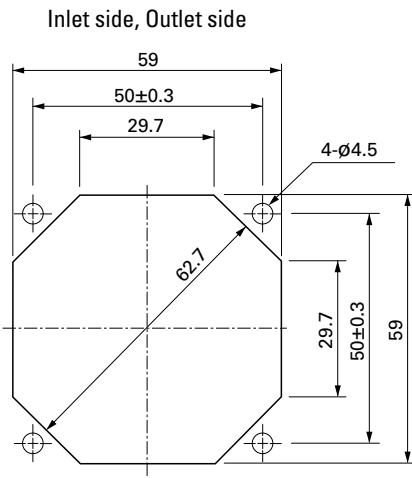
DC

Long Life Fan 60 mm sq.

Dimensions (unit: mm)



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



Options

Finger guards

page: p. 532

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

Resin finger guards

page: p. 539

Model no.: 109-1003G

Resin filter kits

page: p. 540

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

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