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. 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
  (For models without PWM control function, there is no speed control wiring.)
- 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]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	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%.

The following sensor and control options are available for selection.
Differs according to the model. Refer to the table on pp. 576 to 577. Without sensor Pulse sensor Lock sensor

The models listed below **have pulse sensors.**

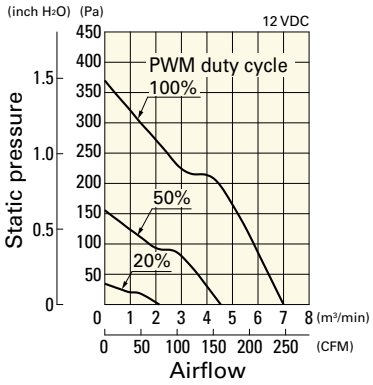
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min⁻¹]	Max. airflow [m³/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	SPL [dB (A)]	Operating temperature [˚C]	Expected life [h]
9LG1212F1001	12	8 to 13.8	0.39	4.68	2800	3	106	67.6	0.27	39	-20 to +70	180000/60˚C
9LG1212M1001			0.22	2.64	2100	2.2	77.7	37.9	0.15	33		
9LG1224A1001	24	15 to 30	0.37	8.88	3700	3.9	137.8	117.8	0.47	48		
9LG1224F1001			0.19	4.56	2800	3	106	67.6	0.27	39		
9LG1224M1001			0.11	2.64	2100	2.2	77.7	37.9	0.15	33		
9LG1248F1001	48	36 to 60	0.11	5.28	2800	3	106	67.6	0.27	39		
9LG1248M1001			0.07	3.36	2100	2.2	77.7	37.9	0.15	33		

The following sensor and control options are available for selection.
Available for all models. Without sensor Lock sensor

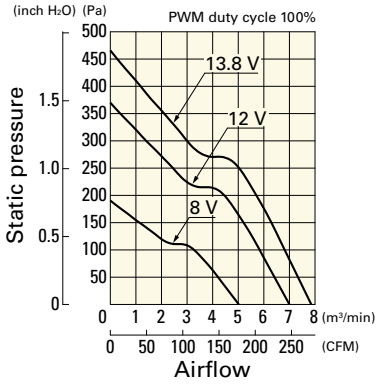
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1212P1G001 With pulse sensor with PWM control function

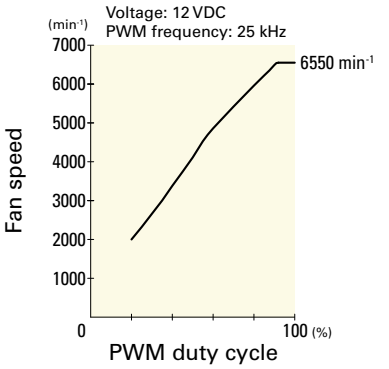
PWM duty cycle



Operating voltage range

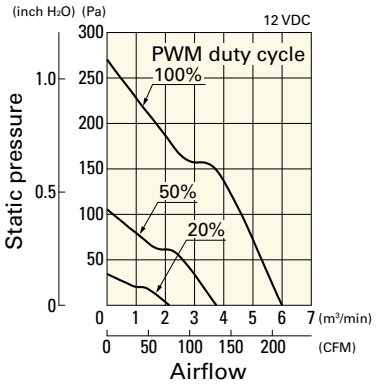


PWM duty - Speed characteristics example

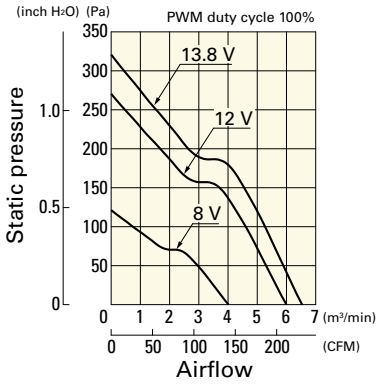


9LG1212P1S001 With pulse sensor with PWM control function

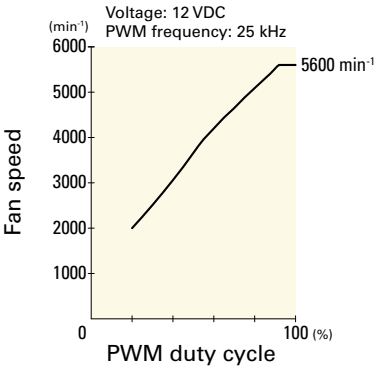
PWM duty cycle



Operating voltage range

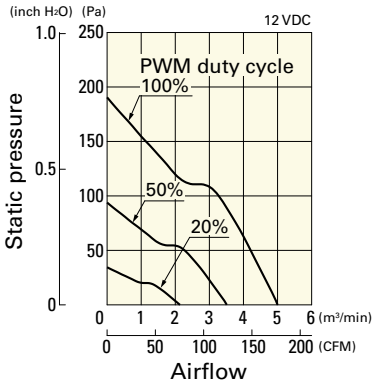


PWM duty - Speed characteristics example

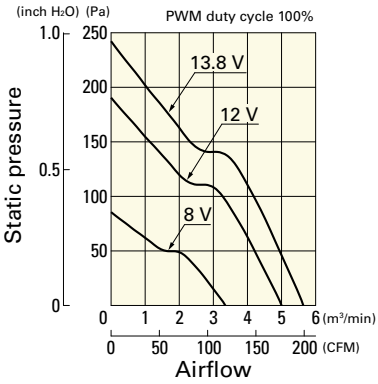


9LG1212P1H001 With pulse sensor with PWM control function

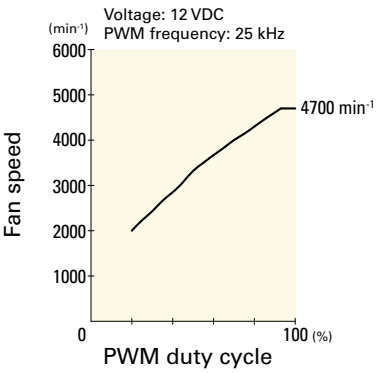
PWM duty cycle



Operating voltage range

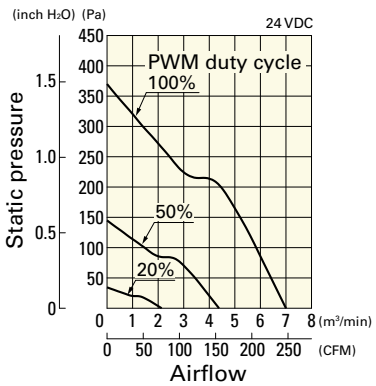


PWM duty - Speed characteristics example

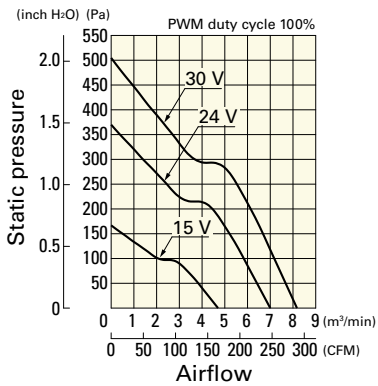


9LG1224P1G001 With pulse sensor with PWM control function

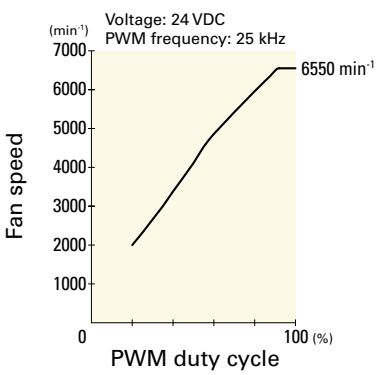
PWM duty cycle



Operating voltage range



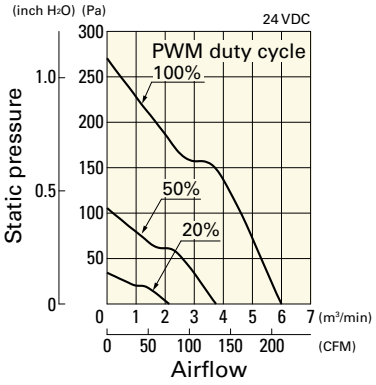
PWM duty - Speed characteristics example



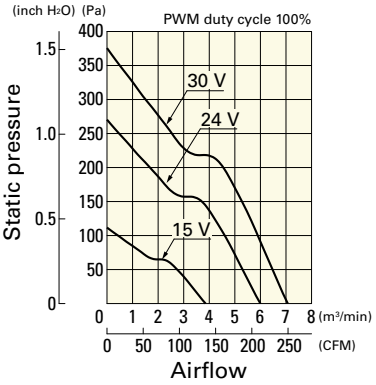
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1224P1S001 With pulse sensor with PWM control function

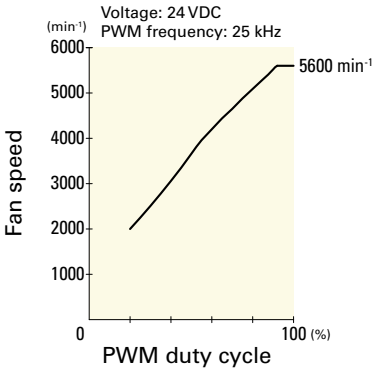
PWM duty cycle



Operating voltage range

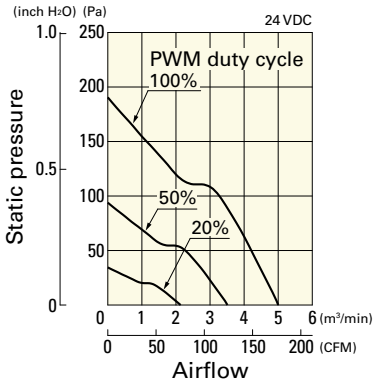


PWM duty - Speed characteristics example

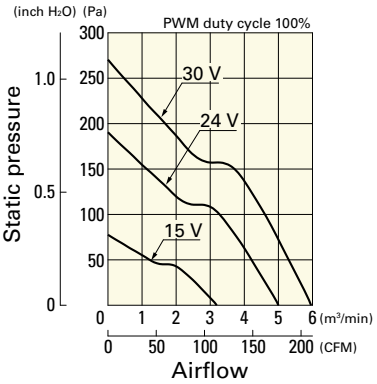


9LG1224P1H001 With pulse sensor with PWM control function

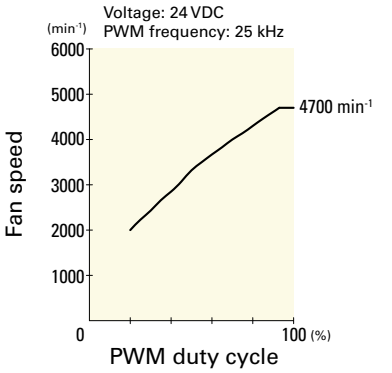
PWM duty cycle



Operating voltage range

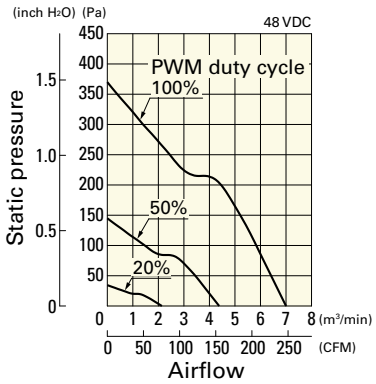


PWM duty - Speed characteristics example

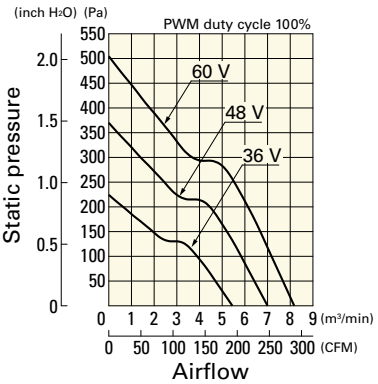


9LG1248P1G001 With pulse sensor with PWM control function

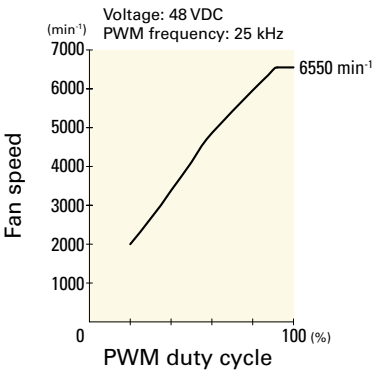
PWM duty cycle



Operating voltage range

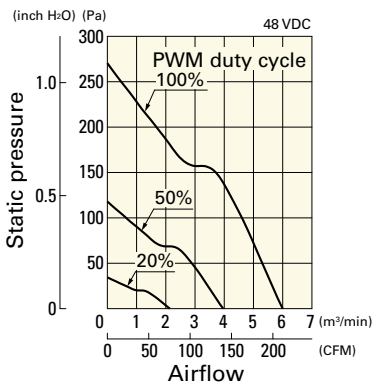


PWM duty - Speed characteristics example

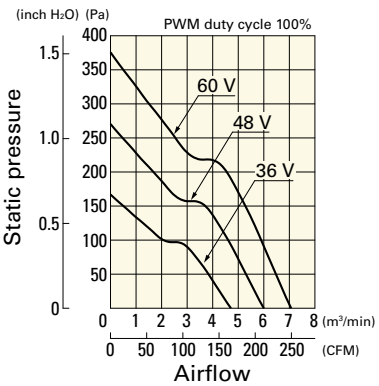


9LG1248P1S001 With pulse sensor with PWM control function

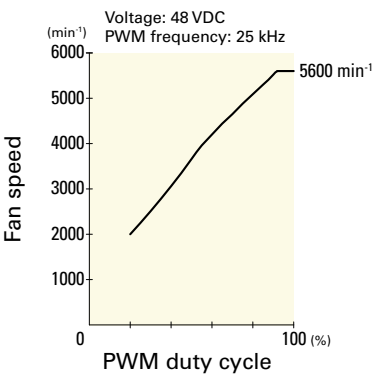
PWM duty cycle



Operating voltage range



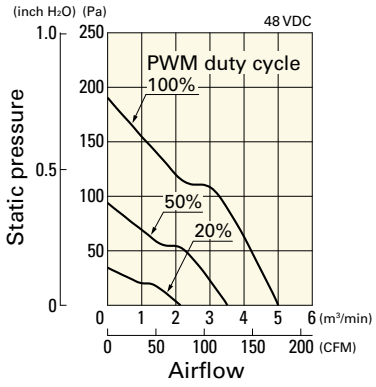
PWM duty - Speed characteristics example



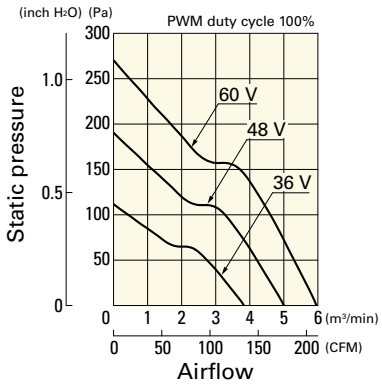
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG1248P1H001 With pulse sensor with PWM control function

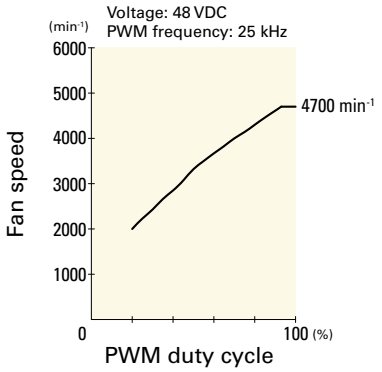
PWM duty cycle



Operating voltage range

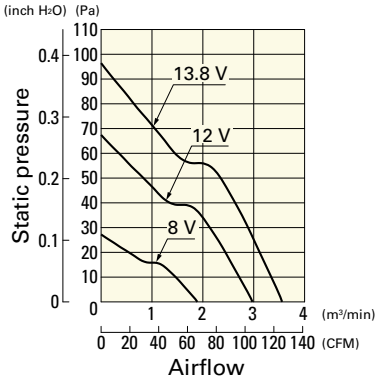


PWM duty - Speed characteristics example



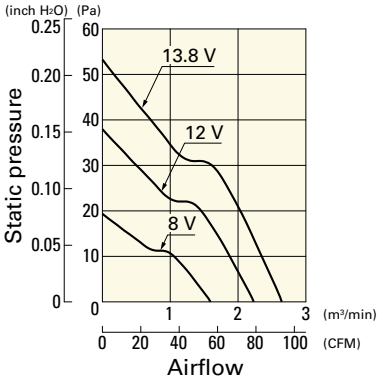
9LG1212F1001 With pulse sensor

Operating voltage range



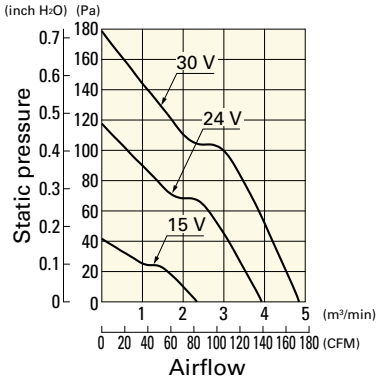
9LG1212M1001 With pulse sensor

Operating voltage range



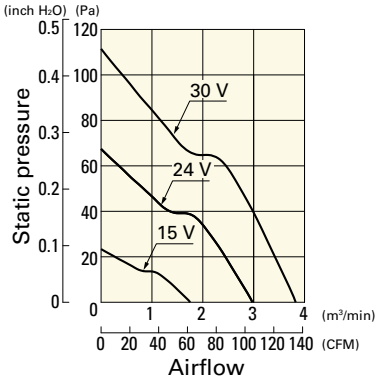
9LG1224A1001 With pulse sensor

Operating voltage range



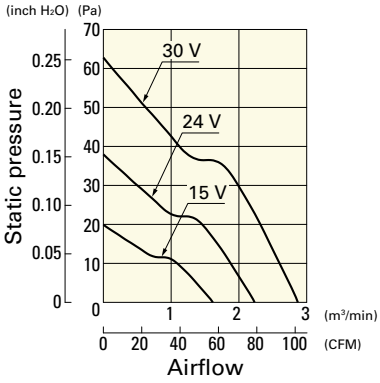
9LG1224F1001 With pulse sensor

Operating voltage range



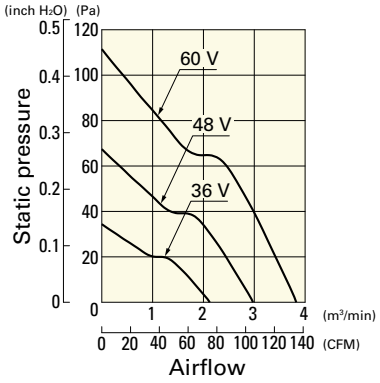
9LG1224M1001 With pulse sensor

Operating voltage range



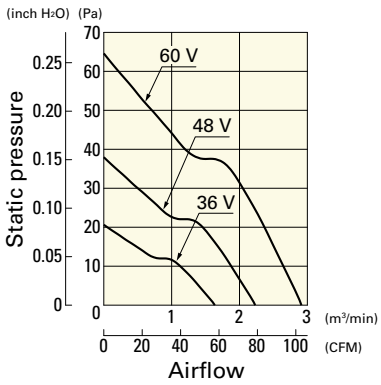
9LG1248F1001 With pulse sensor

Operating voltage range

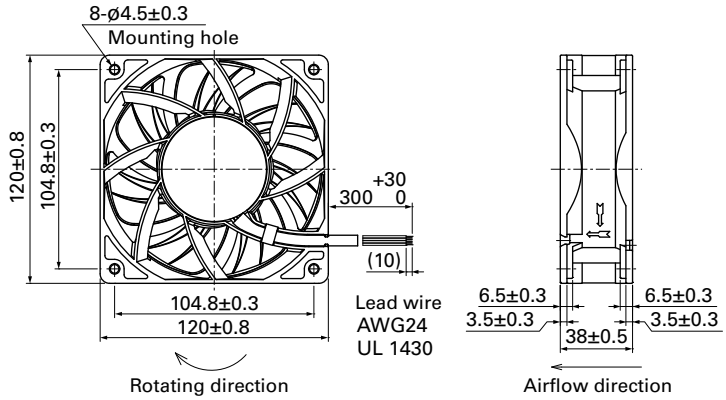


9LG1248M1001 With pulse sensor

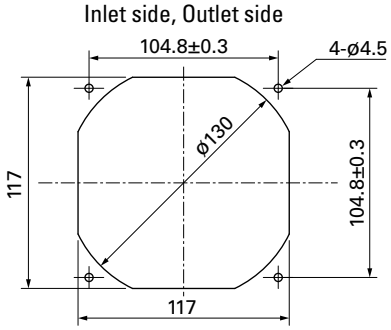
Operating voltage range



Dimensions (unit: mm)



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



Options

Finger guards page: p. 533

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

Resin filter kits page: p. 540

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

Resin finger guards page: p. 539

Model no.: 109-1000G

Unikeyic Electronics

Global Electronic Components Distributor

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SANYO DENKI:

103H5208-5240 109P0412H601 9GA0612L9001 9S1212L4011 9W1BM12P2H001 9HV0812P1G001 9WL0424P3G001 9WPA0612P4G001 SA1-9ADW5701P5H003 SA1-9W1BM24P2H001 9A0912G401 9S0612H402 9WP0624H401 SA1-9WPA0824P4G001 9GE0412P3J03 9TM24P4H01 9G0624G102 9LG0824P4G001 9WF0424H7D01 9WF1224H101 9WP1212H1011 SA1-9RFA1324P3G001 109P0412G601 9GA0712P1G001 9HV5724P5H001 9L0412M301 9WPA0624P4G001 SA1-DB14S422S 9GA0612P7H01 9RA0812G1001