

New Product Introduction  
February 7th, 2025

# San Ace 120

**Splash Proof Fan  
(9WPA type)  
120 mm × 25 mm**



**SANYO DENKI**

SANYO DENKI AMERICA, INC.  
Cooling Systems Division  
[www.Sanyodenki.com/america](http://www.Sanyodenki.com/america)

# Products Highlights

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San Ace 120/ 9WPA type

- High Static Pressure and High Airflow
- Energy Saving
- Water and Dust Protection with IP68
- Eco Product Certified  ECO PRODUCTS
- Target applications: EV chargers, storage batteries, PV inverters, digital signage, and plant factories.

# Products Highlights

San Ace 120/ 9WPA type

## □ Product Features

A high-performance fan that significantly improves cooling performance while reducing thickness.



**Current model:**  
**120×38mm 9WP type**

**Max. airflow:**  
**approx. 1.26 times**

**Max. static pressure:**  
**approx. 2.1 times**



**New model:**  
**120×25mm 9WPA type**

## □ Development points

- 1) High efficiency of the impeller and motor reduces heat generation inside the motor, increasing cooling performance.
- 2) Power consumption at the same cooling performance is 28% lower than that of the current model.

## □ Specifications

\*Rated speed, SPL, Rated input are values at rated voltage in free air.  
 \*SPL is A-weighted sound pressure level that measured at 1 meter away from air intake side of fan.

The models listed below **have ribs and pulse sensors with PWM control function.** For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]	Max. static pressure [Pa] [inchH <sub>2</sub> O]	SPL [dB(A)]	Operating temperature [°C]	Expected life [h]
9WPA1212P4J001	12	10.8 to 13.2	100	1.0	12.0	5400	4.20 148	210 0.84	53	-20 to +60	40000/60°C (70000/40°C)
			20	0.07	0.84	1600	1.24 43.8	24.0 0.10	25		
9WPA1212P4G001			100	0.50	6.0	4250	3.30 117	135 0.54	46	-20 to +70	
			20	0.06	0.72	1300	1.00 35.3	16.0 0.06	20		
9WPA1224P4J001	24	21.6 to 26.4	100	0.50	12.0	5400	4.20 148	210 0.84	53	-20 to +60	
			20	0.05	1.20	1600	1.24 43.8	24.0 0.10	25		
9WPA1224P4G001			100	0.25	6.0	4250	3.30 117	135 0.54	46	-20 to +70	
			20	0.04	0.96	1300	1.00 35.3	16.0 0.06	20		

\* 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.

## □ Sensor

Lock sensor and without sensor can be configured as options upon request.

# High Static Pressure & High Airflow

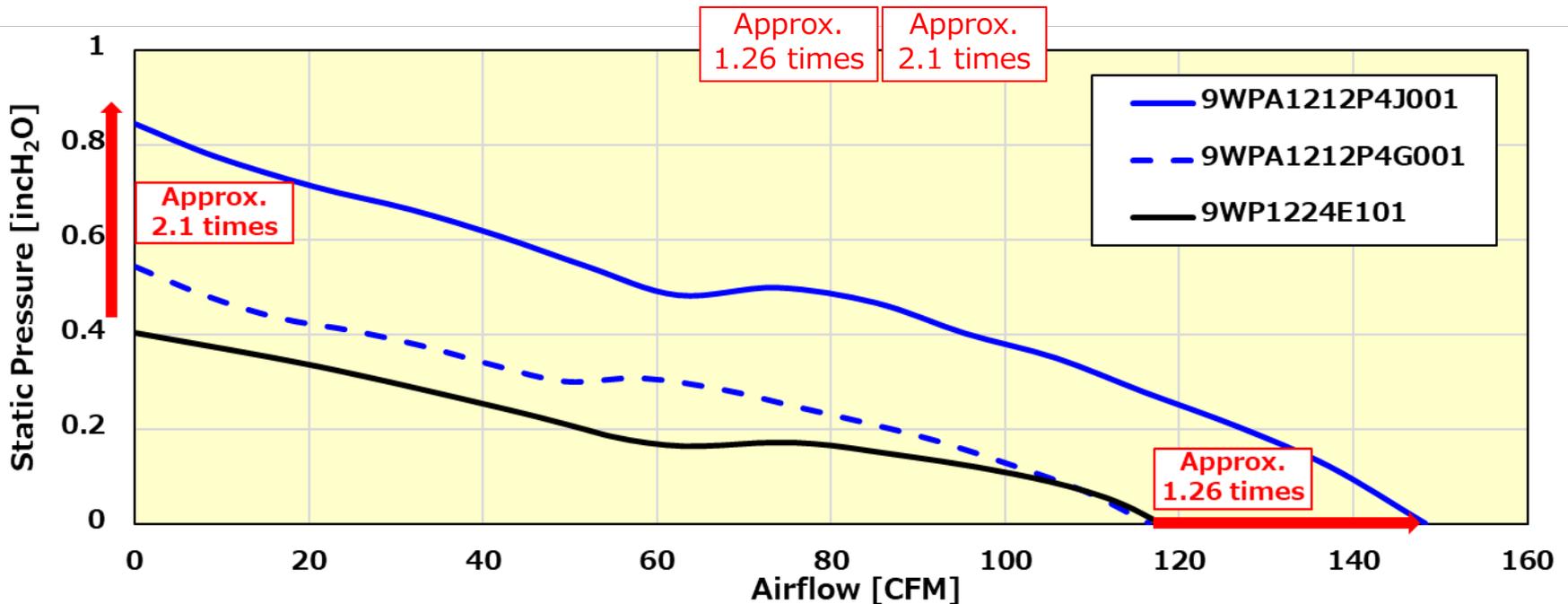
San Ace 120/ 9WPA type

## Specifications

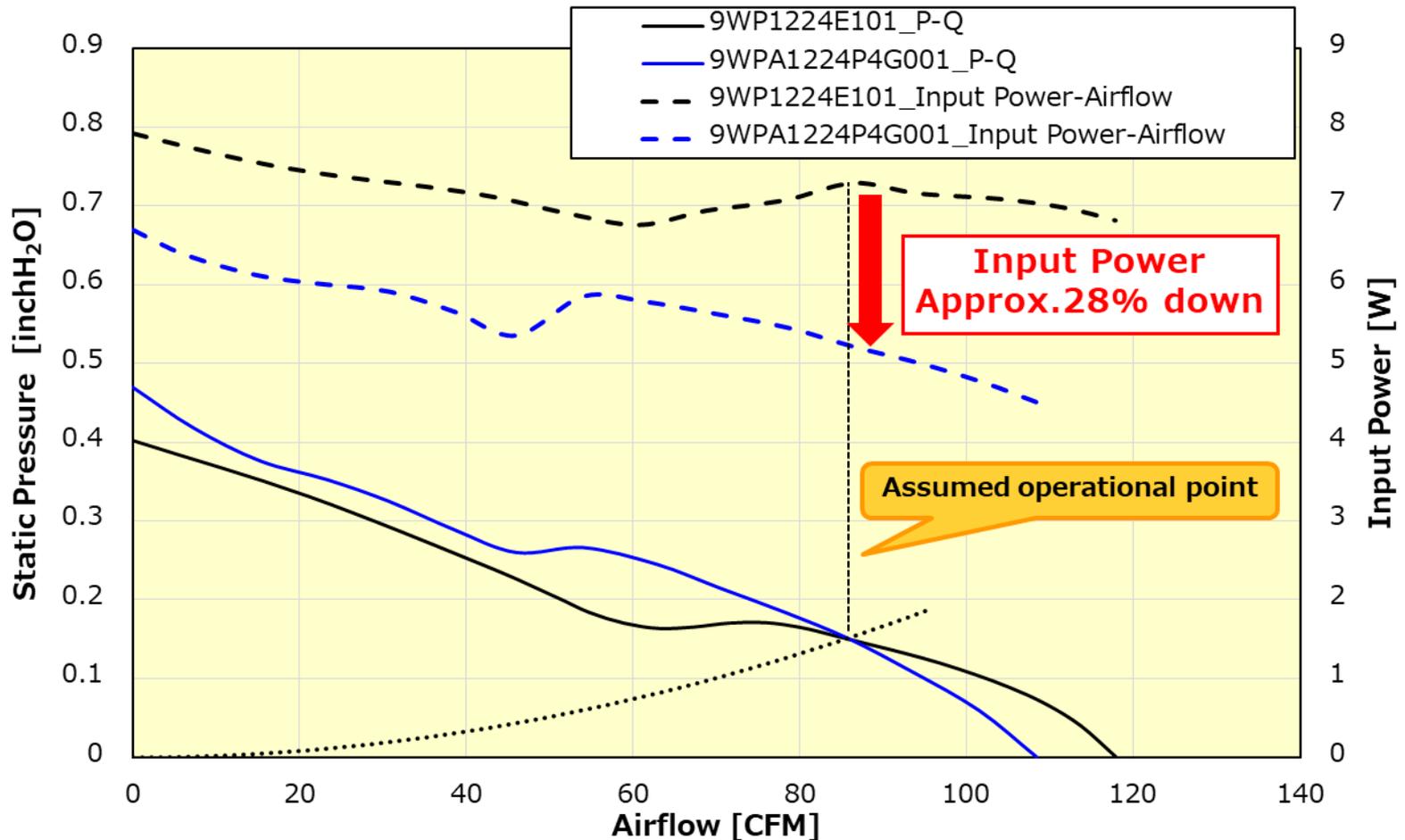
\*Rated speed, SPL, Rated input are values at rated voltage in free air.

\*SPL is A-weighted sound pressure level that measured at 1 meter away from air intake side of fan.

Model No.	Size	Rated Speed [min <sup>-1</sup> ]	Rated Input [W]	Max. Airflow [CFM]	Max. Static Pressure [inchH <sub>2</sub> O]	SPL [dB(A)]	Expected life @60deg.C[h]	Ingress protection
<b>New Model 9WPA1224P4J001</b>	<b>120×25</b>	<b>5,400</b>	<b>12.0</b>	<b>148</b>	<b>0.84</b>	<b>53</b>	<b>40,000</b>	<b>IP68</b>
<b>New Model 9WPA1224P4G001</b>	<b>120×25</b>	<b>4,250</b>	<b>6.0</b>	<b>117</b> ↑	<b>0.54</b> ↑	<b>46</b>	<b>40,000</b>	<b>IP68</b>
Current Model 9WP1224E101	120×38	3,100	7.7	118	0.40	46	40,000	IP68



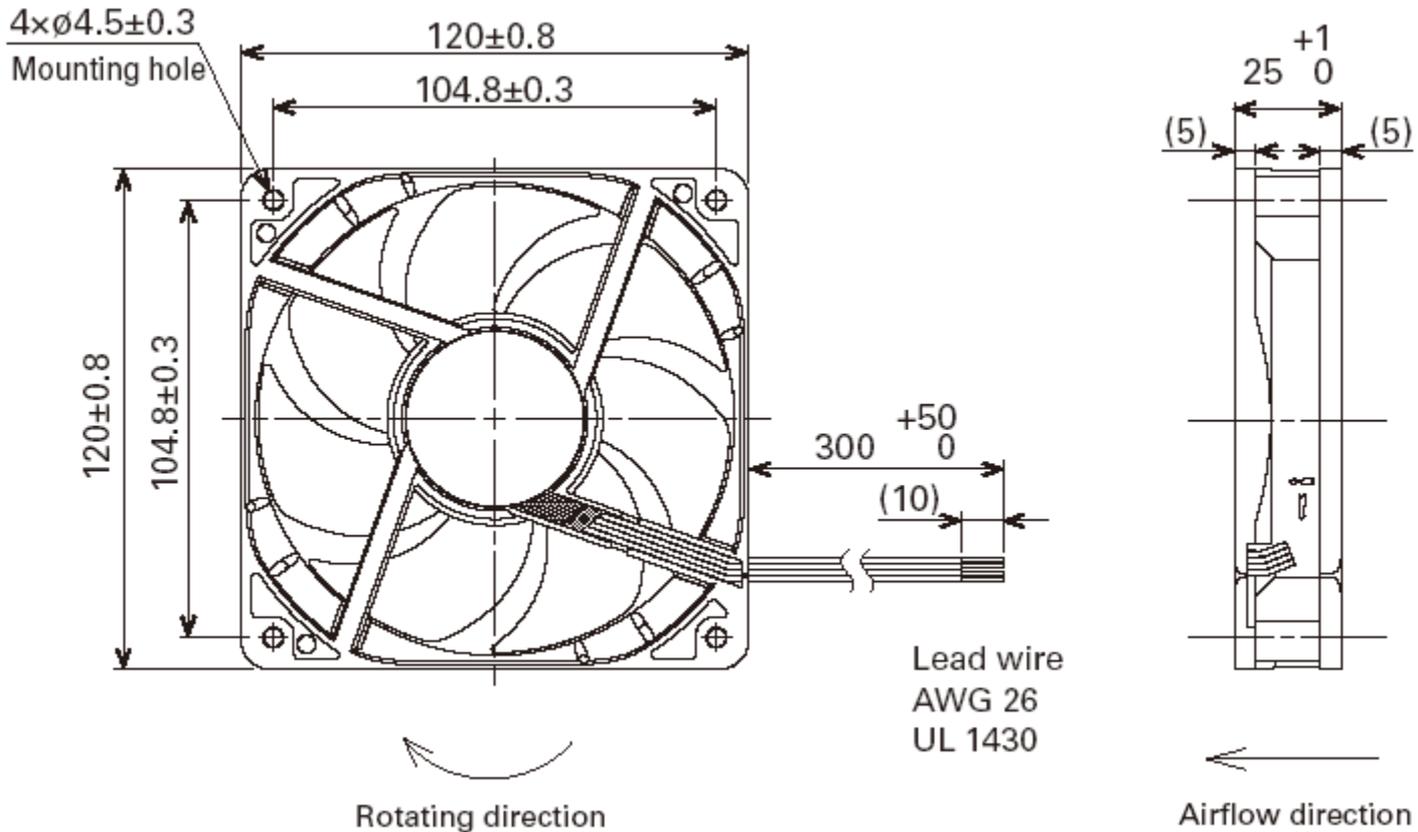
## □ Performance comparison of current and new models (At equivalent cooling performance)



# Dimensions

San Ace 120/ 9WPA type

## □ Dimensions



- MTBF = 3 million hours
- FIT rate = 330

# Target Applications

San Ace 120/ 9WPA type

- EV chargers
- Storage Batteries
- PV inverters
- Digital Signage
- Plant Factories

The 120mm sq. x 25mm DC fans are used in variety of applications, and are increasingly required for waterproof, dustproof, space-saving, low-power, and low-noise cooling solutions. To meet this demand and expand our market presence, we are introducing a 25mm thick splash-proof fan alongside our existing 120mm sq. x 38mm thick model.



Plant Factory



EV Charger



PV Inverter

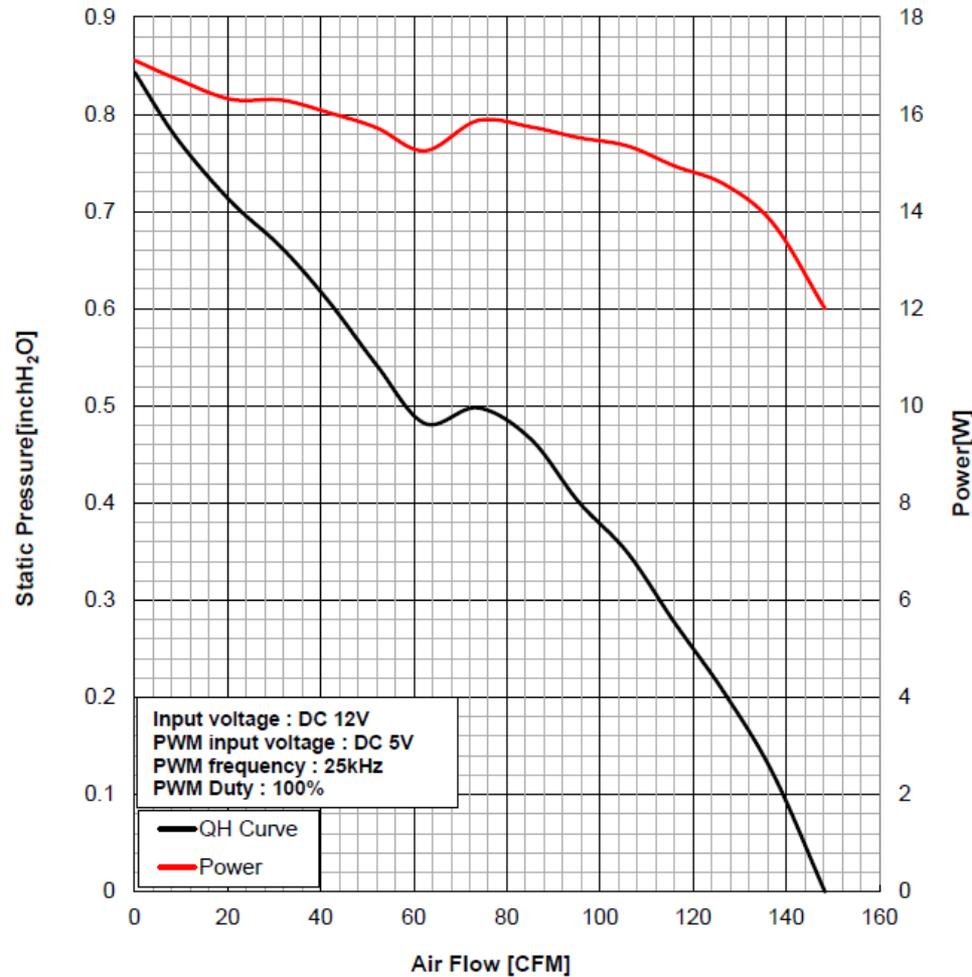


Digital Signage

# Performance vs Power

San Ace 120/ 9WPA type

**MODEL : 9WPA1212P4J001**

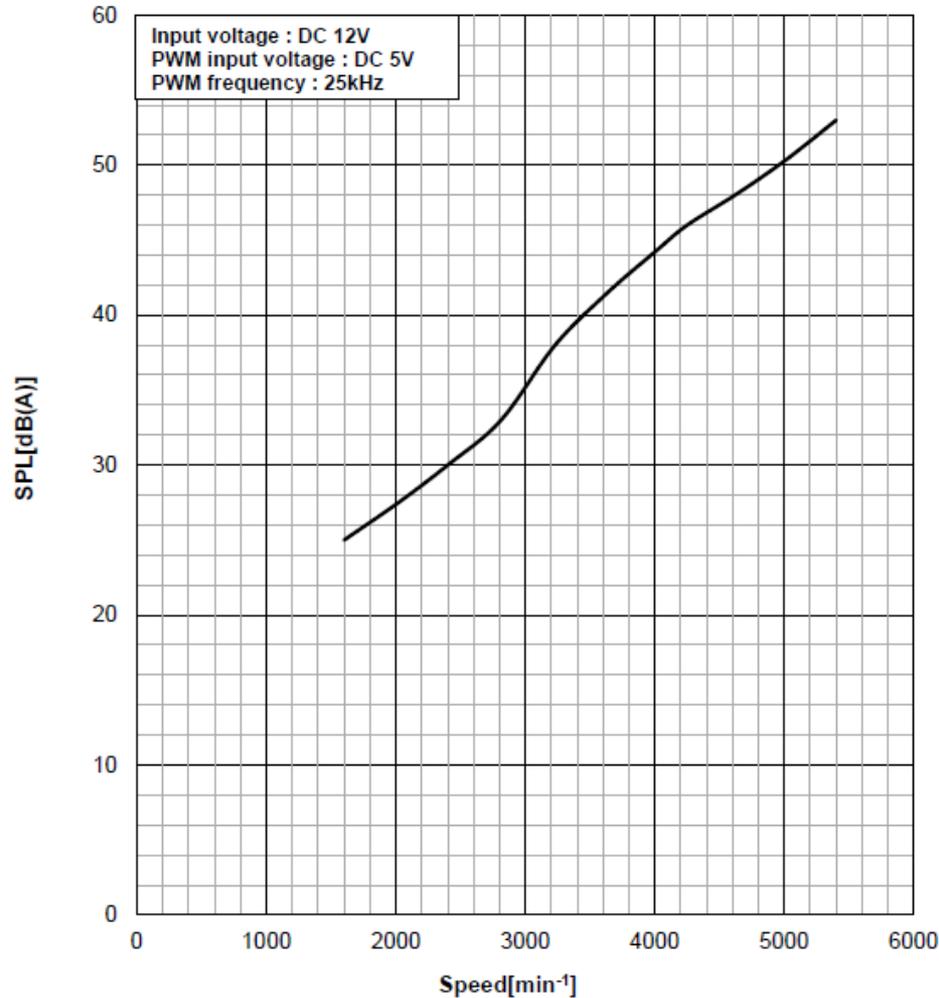


These data are made from actual measure value of specific lot.  
These data are not the worst or guaranteed value.  
And SANYO DENKI can not guarantee the value based on these data.

# SPEED vs Sound Pressure Level dB(A)

San Ace 120/ 9WPA type

**MODEL : 9WPA1212P4J001**



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- Customizations available

- Harness assembly: SANYO DENKI can recommend connectors and terminals.
- Others

- PWM Control

- PWM control function enables to control fan speed depending on the situation and to reduce the power consumption and noise.

- cUL and TUV approved

- Eco Product 

Eco Products are eco-friendly products designed to reduce the environmental impact of the product and its packaging materials compared to conventional products on the market. Our products are assessed over the product's life cycle against our own eco-design requirements including product size, weight, power consumption, and CO<sub>2</sub> emissions, and those meeting our standards and higher standards qualify as Eco Products and Eco Products Plus, respectively.