

February 7th, 2025

SANYO DENKI AMERICA, INC  
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## SANYO DENKI Develops 120 x 120 x 25 mm Splash Proof Fan with the Highest Static Pressure in the Industry

SANYO DENKI has developed and launched the 120 x 120 x 25 mm *San Ace 120W 9WPA* type Splash Proof Fan that features the highest static pressure in the industry.<sup>(1)</sup> It is ideal for applications that require high water and dust protection, such as EV chargers, storage batteries, PV inverters, digital signage, and plant factories.

### Features

#### 1. High Static Pressure and High Airflow

This fan delivers a maximum static pressure of 0.84 inchH<sub>2</sub>O,<sup>(2)</sup> increasing by a factor of about 2.1 over our current model.<sup>(3)</sup>

The fan delivers a maximum airflow of 148 CFM,<sup>(2)</sup> improving by a factor of about 1.26 compared to the current model.<sup>(3)</sup>

#### 2. Low Power Consumption

Power consumption has been reduced by 28%<sup>(2)</sup> compared to the current model<sup>(3)</sup> at equivalent performance.

#### 3. Water and Dust Protection

This fan achieves excellent IP68<sup>(4)</sup> water and dust protection, maintaining stable operation in harsh environments.

#### 4. Contribution to SDGs

This fan uses a lead-free brass material and is RoHS Directive-compliant.<sup>(5)</sup>

Using eco-friendly resources and technologies, it is certified as an Eco Product.<sup>(6)</sup>

(1) Based on our own research as of January 9, 2025, conducted among equally sized axial DC fans on the market.

(2) For a model 9WPA1212J4001.

(3) Current model: 120 × 120 × 38 mm *San Ace 120W 9WP* type Splash Proof Fan (model no. 9WP1224E101).

(4) The degree of protection (IP code) is defined by IEC 60529 (International Electrotechnical Commission) as follows.

The protection ratings of our fans only apply to electrical components (motor coils and electronic components) and do not cover mechanical components.

IP68 is defined as:

- Complete protection against dust
- Protection against submersion in water

(5) The RoHS (Restriction of Hazardous Substances) Directive restricts the use of certain hazardous substances in electrical and electronic equipment distributed within the European Union.

(6) Eco Products are eco-friendly products designed to reduce the environmental impact of the product and its packaging materials compared to our existing products and 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.

### Specifications

**Dimensions: 120 x 120 x 25 mm, Mass: 240 g**

The models listed below have pulse sensors with PWM control.

Model no.	Rated voltage	Operating voltage range	Rated input	Rated speed	Max. airflow		Max. static pressure		Sound pressure level
	[V]	[V]	[W]	[min <sup>-1</sup> ]	[m <sup>3</sup> /min]	[CFM]	[Pa]	[inchH <sub>2</sub> O]	[dB(A)]
9WPA1212P4J001	12	10.8 to 13.2	12.0	5400	4.20	148	210	0.84	53
9WPA1212P4G001			6.0	4250	3.30	117	135	0.54	46
9WPA1224P4J001	24	21.6 to 26.4	12.0	5400	4.20	148	210	0.84	53
9WPA1224P4G001			6.0	4250	3.30	117	135	0.54	46

Expected life: 40000 hours (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)

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	[V]	[V]	[W]	[min <sup>-1</sup> ]	[m <sup>3</sup> /min]	[CFM]	[Pa]	[inchH <sub>2</sub> O]	[dB(A)]
9WPA1212J4001	12	7 to 13.2	12.0	5400	4.20	148	210	0.84	53
9WPA1212G4001		7 to 13.8	6.00	4250	3.30	117	135	0.54	46
9WPA1212H4001		10.2 to 13.8	1.44	2400	1.85	65.0	47.0	0.19	30
9WPA1224J4001	24	14 to 26.4	12.0	5400	4.20	148	210	0.84	53
9WPA1224G4001		14 to 27.6	6.00	4250	3.30	117	135	0.54	46
9WPA1224H4001		20.4 to 27.6	1.44	2400	1.85	65.0	47.0	0.19	30

Expected life: 40000 hours (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)

**Applications** EV chargers, storage batteries, PV inverters, digital signage, and plant factories

**Price** Open

**Photo**



The information stated in this release is current as of January 9, 2025.

San Ace is a registered trademark of SANYO DENKI CO., LTD.

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