

Product News

SANYO DENKI Releases *San Ace 160AD* ACDC Fan and Splash Proof ACDC Fan with the Industry's Highest Airflow and Static Pressure

August 25, 2022

SANYO DENKI CO., LTD. has developed and launched the *San Ace 160AD* 160 × 160 × 51 mm ACDC Fan<sup>(2)</sup> and Splash Proof ACDC Fan that feature the highest airflow and static pressure in the industry.<sup>(1)</sup> These fans are suitable for cooling control panels, industrial equipment, air conditioners, and other equipment that requires high cooling performance and low power consumption.



9AD type  
(Lead wire model with pulse sensor and PWM control)



9ADW type  
(Lead wire model with pulse sensor and PWM control)

Features

1. High Airflow and High Static Pressure

These fans deliver a maximum airflow of 8.2 m<sup>3</sup>/min and maximum static pressure of 167 Pa, both of which are leading in the industry.<sup>(1)</sup>

2. Low Noise and Low Power Consumption

These fans operate with a noise level of 58 dB(A) and power consumption of 22 W, both of which are leading in the industry.<sup>(1)</sup>

Also, the PWM control function enables the control of fan speed, contributing to lowering noise and improving energy efficiency of devices.

3. Wide Operating Voltage Range

These fans have an input voltage range of 100 to 240 VAC, supporting both 100 and 200 VAC systems.

4. Water and Dust Protection

With its IP56-rated protection,<sup>(3)</sup> the *San Ace 160AD* 9ADW type Splash Proof ACDC Fan is protected from water and dust. This ensures stable fan operation even in harsh environments.

(1) Based on our own research as of August 25, 2022, conducted among equally-sized ACDC fans and water-resistant ACDC fans on the market.  
(2) ACDC fans: DC (direct current) fans that run on AC (alternating current) power. AC fans are simple and easy to use since they operate on standard AC power supplies but fall behind DC fans in performance. On the other hand, DC fans outperform AC fans but require a DC power supply. ACDC fans combine the advantages of both.  
(3) The degree of protection (IP code) is defined by IEC 60529 (International Electrotechnical Commission) as follows.  
The protection rating applies only to electrical components (motor coils and electronic components) in our fans. The mechanical components other than the electrical components are not subject to protection.  
IP56:  
• Protection against a level of dust that could hinder operation or impair safety  
• Protection against powerful water jets

Specifications

*San Ace 160AD* 9AD type ACDC Fan - Dimensions: 160 × 160 × 51 mm, Mass: 880 g

Model no.	Rated voltage	Operating voltage range	Rated input	Rated speed	Max. airflow		Max. static pressure	
	[V]	[V]	[W]	[min <sup>-1</sup> ]	[m <sup>3</sup> /min]	[CFM]	[Pa]	[inchH <sub>2</sub> O]
9AD1601P5H003 (Lead wire model with pulse sensor and PWM control)	100 to 240	90 to 264	22	4150	8.2	290	167	0.66
9AD1601H5002 (Lead wire model without sensor)								
9AD1601P5HT03 (Terminal model with pulse sensor and PWM control)								
9AD1601H5T02 (Terminal model without sensor)								

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

*San Ace 160AD* 9ADW type Splash Proof ACDC Fan - Dimensions: 160 × 160 × 51 mm, Mass: 940 g

Model no.	Rated voltage	Operating voltage range	Rated input	Rated speed	Max. airflow		Max. static pressure	
	[V]	[V]	[W]	[min <sup>-1</sup> ]	[m <sup>3</sup> /min]	[CFM]	[Pa]	[inchH <sub>2</sub> O]
9ADW1601P5H003 (Lead wire model with pulse sensor and PWM control)	100 to 240	90 to 264	22	4150	8.2	290	167	0.66
9ADW1601H5002 (Lead wire model without sensor)								
9ADW1601P5HT03 (Terminal model with pulse sensor and PWM control)								
9ADW1601H5T02 (Terminal model without sensor)								

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

PDF Catalog

*San Ace 160AD* 9AD type ACDC Fan 160 × 160 × 51 mm

English

Japanese

*San Ace 160AD* 9ADW type Splash Proof ACDC Fan 160 × 160 × 51 mm

English

Japanese

Applications

Control panels, industrial equipment, and air conditioners

Release Date

August 25, 2022

Projected Sales Figures

4,000 units/month

Price

Open

Safety Precautions

Safety Precautions

The information stated in this release is current as of August 25, 2022.  
*San Ace* is a registered trademark of SANYO DENKI CO., LTD.

Products

Product Site

Product News

Technical Reports

User Registration Outline

Case Study