

Cooling in the harshest environments

San Ace Endurance Fan Series

Rich lineup

- Achieves high rigidity!
G Proof Fan
- Usable in a wide temperature range of -40 to +85°C
Wide Temperature Range Fan
- Won't break even if submerged
Splash Proof Fan (IP68)
- Worry-free use, even in oil mist environments
Oil Proof Fan
- Can be used maintenance-free for up to 20 years
Long Life Fan



Wide Temperature Range Fan Application Example
Supercooling Refrigerator



G Proof Fan Application Example
CT Scanner



Splash Proof Fan Application Example
EV Quick Charger

Improved device reliability

Contributes to improved durability and water resistance

Contributes to making devices maintenance-free

SANYO DENKI



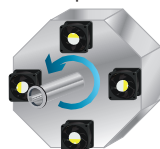
Achieves high rigidity!
G-force tolerance level of
735 m/s² (75 G)/1,000 h

G Proof Fan

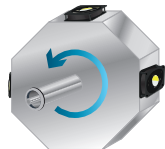
Features

- Bearings, rotors, and blades have been reinforced to achieve high rigidity.
- A G-force testing machine was used to reproduce and test the operating environment, enabling high resistance to centrifugal acceleration.

Centrifugal force test example



Horizontal axis direction



Vertical axis direction

Applications

For use in devices subjected to high levels of G-force, such as CT scanners, and devices subjected to high levels of vibration, such as presses.

Use in environments with high vibration is not covered by our warranty. Customers are requested to perform evaluation before making a decision.

lineup

120 × 120 × 38 mm, Ø172 × 51 mm
(Rated voltage 24, 48 VDC)



Wide Operating Temperature Range!
-40 to +85°C

Wide Temperature Range Fan

Features

- Aluminum frames improve the heat dissipation from the bearings.
- Uses electronic components suitable for extremely low temperature regions.



-20°C

Standard fan

+70°C



-40°C

Wide Temperature Range Fan

+85°C

Applications

For use in high-temperature devices such as LED lighting and laser projectors, and in cold regions or refrigerated showcases.

lineup

40 × 40 × 28 mm, 60 × 60 × 25 mm, 80 × 80 × 25 mm, 92 × 92 × 25 mm,
92 × 92 × 38 mm, 120 × 120 × 38 mm
(Rated voltage 12, 24 VDC)



Won't break even if submerged!
IP68 protection rating

Splash Proof Fan

Features

Live electric parts are coated with resin, preventing water from entering the fan even if it is submerged.



Standard fan



Splash Proof Fan

Applications

Rapid chargers, outdoor lighting, outdoor control panels, and other equipment exposed to rain or dust

lineup

40 × 40 × 20 mm, 40 × 40 × 28 mm, 60 × 60 × 25 mm, 80 × 80 × 25 mm,
80 × 80 × 38 mm, 92 × 92 × 25 mm, 92 × 92 × 38 mm, 120 × 120 × 38 mm,
140 × 140 × 38 mm, 140 × 140 × 51 mm, Ø172 × 51 mm
(Rated voltage 12, 24, 48 VDC)

We also have a lineup of Long-life Splash Proof Fans with an expected life span of up to 20 years (180,000 h@60°C).



Can be used worry-free even in
oil mist environments

Oil Proof Fan

Features

- Live electrical parts are coated with resin.
- The gap between the frame and blades has been widened to prevent oil deposits from locking the impeller.



Standard fan



Oil Proof Fan

Applications

Inverters, NC controllers, machine tools, and other equipment exposed to oil mist

lineup

40 × 40 × 15 mm, 40 × 40 × 20 mm, 60 × 60 × 15 mm, 60 × 60 × 20 mm,
60 × 60 × 25 mm, 80 × 80 × 25 mm, 92 × 92 × 25 mm, 92 × 92 × 32 mm,
120 × 120 × 38 mm
(Rated voltage 24 VDC)

- Our DC fan lineup ranges from 36 mm sq. axial fans to 270 mm diameter circular fans.
- We also offer a lineup of fans with the PWM control function for controlling rotation speed to meet the application and situation. (A controller is needed to control PWM. We can prepare one for you.) See our catalog for details.

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