

# S8JX-G Switch Mode Power Supply

**Offers Flexible Selection, High Reliability  
and Ease of Operation**

**More Variations for More Applications**



**15W / 35W / 50W / 100W / 150W / 300W / 600W**

**10 Years**      **4.5 G**  
Life Expectancy      Vibration Resistance

- » Smoothly handle even more applications
- » Output voltage models for 5 V and 48 V expand lineup
- » Simple installation and maintenance free operation
  - » Slim design for smaller, more compact control panels

# Simple

## Two Mounting Methods for Simple Installation

### Use Screw or DIN Rail Mounting Even with 300-W Models

In addition to front mounting and top mounting, you can mount models up to 300-W to DIN Rail for simple installation that reduces installation work.

\*Only screw mounting is possible for 600-W models  
\*Use a steel DIN Rail for 300-W Power Supplies.



Front Mounting



Compact right-angle mounting bracket enclosed for easy mounting.

Screw Mounting from Top



Easy mounting from the top with screws.

## Fan-free Design for Maintenance-free Operation

### The 300-W models need no fan

The thermal design and circuit design of the 300-W models were improved to achieve a fan-free structure. This eliminates the need to replace fans every few years and greatly reduces the risk of lowering the insulation resistance due to dust drawn in by the fan.

\*The 600-W models have fans.

Standard Power Supply with Fan



Fan replacement every 2 to 3 years  
Dust drawn in by fan

S8JX(300-W Models)



Fan-free means maintenance-free  
No fan for reduced risk from dust



# Slim

## Contributes to Thinner Panels

### The Shortest Body Class in the Industry

The S8JX Power Supplies have a shorter body than OMRON's S82J Power Supplies. This allows them to fit into tighter spots to contribute to smaller, thinner control panels and devices in this age where functionality and mounting density continue to increase.

(Comparison to Previous OMRON Models)

Length Reduced  
by **30%**



145 mm

110 mm

\*For 50-W model with front mounting.

# Selectable

## More Output Voltage Specifications for an Expanded Lineup

Voltage Specifications from 5 V to 48 V



| Power rating Voltage | 15w | 35w | 50w | 100w | 150w | 300w | 600w |
|----------------------|-----|-----|-----|------|------|------|------|
| 5v                   | •   | •   | •   | •    | •    | •    | •    |
| 12v                  | •   | •   | •   | •    | •    | •    | •    |
| 15v                  | •   | •   |     |      |      |      |      |
| 24v                  | •   | •   | •   | •    | •    | •    | •    |
| 48v                  | •   | •   | •   | •    | •    | •    | •    |

# Smooth

## More Applications

Application is now possible with 48-V equipment.

You can handle more applications smoothly, including motor drive and power supply systems.



Robots



Conveyors



Vehicle manufacturing equipment



Ships



Elevators



Wind power generation

# Ordering Information

## List of Models

**Note:** For details on normal stock models, contact your nearest OMRON representative.

### ● Open-frame Power Supplies from 15 W to 150 W

| Configuration       | Input voltage                                                                    | Power ratings | Output voltage (VDC) | Output current | Model        |
|---------------------|----------------------------------------------------------------------------------|---------------|----------------------|----------------|--------------|
| Front-mounting*1    | 100 to 240 VAC (wide-range) (80 to 370 VDC*3)                                    | 15W           | 5V                   | 3A             | S8JX-G01505  |
|                     |                                                                                  |               | 12V                  | 1.3A           | S8JX-G01512  |
|                     |                                                                                  |               | 15V                  | 1A             | S8JX-G01515  |
|                     |                                                                                  |               | 24V                  | 0.65A          | S8JX-G01524  |
|                     |                                                                                  |               | 48V                  | 0.35A          | S8JX-G01548  |
|                     |                                                                                  | 35W           | 5V                   | 7A             | S8JX-G03005  |
|                     |                                                                                  |               | 12V                  | 3A             | S8JX-G03012  |
|                     |                                                                                  |               | 15V                  | 2.4A           | S8JX-G03015  |
|                     |                                                                                  |               | 24V                  | 1.5A           | S8JX-G03024  |
|                     |                                                                                  |               | 48V                  | 0.75A          | S8JX-G03048  |
|                     |                                                                                  | 50W           | 5V                   | 10A            | S8JX-G05005  |
|                     |                                                                                  |               | 12V                  | 4.2A           | S8JX-G05012  |
|                     |                                                                                  |               | 24V                  | 2.1A           | S8JX-G05024  |
|                     |                                                                                  |               | 48V                  | 1.1A           | S8JX-G05048  |
|                     |                                                                                  | 100W          | 5V                   | 20A            | S8JX-G10005  |
|                     |                                                                                  |               | 12V                  | 8.5A           | S8JX-G10012  |
|                     |                                                                                  |               | 24V                  | 4.5A           | S8JX-G10024  |
|                     |                                                                                  |               | 48V                  | 2.1A           | S8JX-G10048  |
|                     |                                                                                  | 150W          | 5V                   | 30A            | S8JX-G15005  |
|                     |                                                                                  |               | 12V                  | 13A            | S8JX-G15012  |
|                     |                                                                                  |               | 24V                  | 6.5A           | S8JX-G15024  |
|                     |                                                                                  |               | 48V                  | 3.3A           | S8JX-G15048  |
| DIN Rail-mounting*2 | S8JXN 15005□□□ only 100 to 120 VAC or 200 to 240 VAC (DC input is not supported) | 15W           | 5V                   | 3A             | S8JX-G01505D |
|                     |                                                                                  |               | 12V                  | 1.3A           | S8JX-G01512D |
|                     |                                                                                  |               | 15V                  | 1A             | S8JX-G01515D |
|                     |                                                                                  |               | 24V                  | 0.65A          | S8JX-G01524D |
|                     |                                                                                  |               | 48V                  | 0.35A          | S8JX-G01548D |
|                     |                                                                                  | 35W           | 5V                   | 7A             | S8JX-G03005D |
|                     |                                                                                  |               | 12V                  | 3A             | S8JX-G03012D |
|                     |                                                                                  |               | 15V                  | 2.4A           | S8JX-G03015D |
|                     |                                                                                  |               | 24V                  | 1.5A           | S8JX-G03024D |
|                     |                                                                                  |               | 48V                  | 0.75A          | S8JX-G03048D |
|                     |                                                                                  | 50W           | 5V                   | 10A            | S8JX-G05005D |
|                     |                                                                                  |               | 12V                  | 4.2A           | S8JX-G05012D |
|                     |                                                                                  |               | 24V                  | 2.1A           | S8JX-G05024D |
|                     |                                                                                  |               | 48V                  | 1.1A           | S8JX-G05048D |
|                     |                                                                                  | 100W          | 5V                   | 20A            | S8JX-G10005D |
|                     |                                                                                  |               | 12V                  | 8.5A           | S8JX-G10012D |
|                     |                                                                                  |               | 24V                  | 4.5A           | S8JX-G10024D |
|                     |                                                                                  |               | 48V                  | 2.1A           | S8JX-G10048D |
|                     |                                                                                  | 150W          | 5V                   | 30A            | S8JX-G15005D |
|                     |                                                                                  |               | 12V                  | 13A            | S8JX-G15012D |
|                     |                                                                                  |               | 24V                  | 6.5A           | S8JX-G15024D |
|                     |                                                                                  |               | 48V                  | 3.3A           | S8JX-G15048D |

\*1. The Front-mounting Bracket is included with the product as a standard feature.

\*2. The Front-mounting Bracket is not included with the product.

\*3. The applicable range for EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

### ■ Safety-standard and RoHS Compliant



### ● Power Supplies with Covers for 15 W to 150 W

| Configuration       | Input voltage                                                                    | Power ratings | Output voltage (VDC) | Output current | Model         |
|---------------------|----------------------------------------------------------------------------------|---------------|----------------------|----------------|---------------|
| Front-mounting*1    | 100 to 240 VAC (wide-range) (80 to 370 VDC*3)                                    | 15W           | 5V                   | 3A             | S8JX-G01505C  |
|                     |                                                                                  |               | 12V                  | 1.3A           | S8JX-G01512C  |
|                     |                                                                                  |               | 15V                  | 1A             | S8JX-G01515C  |
|                     |                                                                                  |               | 24V                  | 0.65A          | S8JX-G01524C  |
|                     |                                                                                  |               | 48V                  | 0.35A          | S8JX-G01548C  |
|                     |                                                                                  | 35W           | 5V                   | 7A             | S8JX-G03005C  |
|                     |                                                                                  |               | 12V                  | 3A             | S8JX-G03012C  |
|                     |                                                                                  |               | 15V                  | 2.4A           | S8JX-G03015C  |
|                     |                                                                                  |               | 24V                  | 1.5A           | S8JX-G03024C  |
|                     |                                                                                  |               | 48V                  | 0.75A          | S8JX-G03048C  |
|                     |                                                                                  | 50W           | 5V                   | 10A            | S8JX-G05005C  |
|                     |                                                                                  |               | 12V                  | 4.2A           | S8JX-G05012C  |
|                     |                                                                                  |               | 24V                  | 2.1A           | S8JX-G05024C  |
|                     |                                                                                  |               | 48V                  | 1.1A           | S8JX-G05048C  |
|                     |                                                                                  | 100W          | 5V                   | 20A            | S8JX-G10005C  |
|                     |                                                                                  |               | 12V                  | 8.5A           | S8JX-G10012C  |
|                     |                                                                                  |               | 24V                  | 4.5A           | S8JX-G10024C  |
|                     |                                                                                  |               | 48V                  | 2.1A           | S8JX-G10048C  |
|                     |                                                                                  | 150W          | 5V                   | 30A            | S8JX-G15005C  |
|                     |                                                                                  |               | 12V                  | 13A            | S8JX-G15012C  |
|                     |                                                                                  |               | 24V                  | 6.5A           | S8JX-G15024C  |
|                     |                                                                                  |               | 48V                  | 3.3A           | S8JX-G15048C  |
| DIN Rail-mounting*2 | S8JXN 15005□□□ only 100 to 120 VAC or 200 to 240 VAC (DC input is not supported) | 15W           | 5V                   | 3A             | S8JX-G01505CD |
|                     |                                                                                  |               | 12V                  | 1.3A           | S8JX-G01512CD |
|                     |                                                                                  |               | 15V                  | 1A             | S8JX-G01515CD |
|                     |                                                                                  |               | 24V                  | 0.65A          | S8JX-G01524CD |
|                     |                                                                                  |               | 48V                  | 0.35A          | S8JX-G01548CD |
|                     |                                                                                  | 35W           | 5V                   | 7A             | S8JX-G03005CD |
|                     |                                                                                  |               | 12V                  | 3A             | S8JX-G03012CD |
|                     |                                                                                  |               | 15V                  | 2.4A           | S8JX-G03015CD |
|                     |                                                                                  |               | 24V                  | 1.5A           | S8JX-G03024CD |
|                     |                                                                                  |               | 48V                  | 0.75A          | S8JX-G03048CD |
|                     |                                                                                  | 50W           | 5V                   | 10A            | S8JX-G05005CD |
|                     |                                                                                  |               | 12V                  | 4.2A           | S8JX-G05012CD |
|                     |                                                                                  |               | 24V                  | 2.1A           | S8JX-G05024CD |
|                     |                                                                                  |               | 48V                  | 1.1A           | S8JX-G05048CD |
|                     |                                                                                  | 100W          | 5V                   | 20A            | S8JX-G10005CD |
|                     |                                                                                  |               | 12V                  | 8.5A           | S8JX-G10012CD |
|                     |                                                                                  |               | 24V                  | 4.5A           | S8JX-G10024CD |
|                     |                                                                                  |               | 48V                  | 2.1A           | S8JX-G10048CD |
|                     |                                                                                  | 150W          | 5V                   | 30A            | S8JX-G15005CD |
|                     |                                                                                  |               | 12V                  | 13A            | S8JX-G15012CD |
|                     |                                                                                  |               | 24V                  | 6.5A           | S8JX-G15024CD |
|                     |                                                                                  |               | 48V                  | 3.3A           | S8JX-G15048CD |

### ● Power Supplies with Covers for 300 W and 600 W

| Configuration       | Input voltage                                 | Power ratings | Output voltage (VDC) | Output current | Model         |
|---------------------|-----------------------------------------------|---------------|----------------------|----------------|---------------|
| Front-mounting*1    | 100 to 120 VAC or 200 to 240 VAC (switchable) | 300W          | 24V                  | 14A            | S8JX-G30024C  |
|                     |                                               | 600W          |                      | 27A            | S8JX-G60024C  |
|                     |                                               | 300W          |                      | 14A            | S8JX-G30024CD |
| DIN Rail-mounting*2 |                                               |               |                      |                |               |

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