

## With Cover/DIN Rail Mounting

| Power ratings | Input voltage  | Output voltage (VDC) | Output current | Built-in fan | Model         |
|---------------|----------------|----------------------|----------------|--------------|---------------|
| 15 W          | 100 to 240 VAC | 5 V                  | 3 A            | None         | S8FS-G01505CD |
|               |                | 12 V                 | 1.3 A          |              | S8FS-G01512CD |
|               |                | 15 V                 | 1 A            |              | S8FS-G01515CD |
|               |                | 24 V                 | 0.65 A         |              | S8FS-G01524CD |
| 30 W          |                | 5 V                  | 6 A            |              | S8FS-G03005CD |
|               |                | 12 V                 | 3 A            |              | S8FS-G03012CD |
|               |                | 15 V                 | 2.4 A          |              | S8FS-G03015CD |
|               |                | 24 V                 | 1.5 A          |              | S8FS-G03024CD |
| 50 W          |                | 5 V                  | 8 A            |              | S8FS-G05005CD |
|               |                | 12 V                 | 4.3 A          |              | S8FS-G05012CD |
|               |                | 15 V                 | 3.5 A          |              | S8FS-G05015CD |
|               |                | 24 V                 | 2.2 A          |              | S8FS-G05024CD |
| 100 W         |                | 5 V                  | 16 A           |              | S8FS-G10005CD |
|               |                | 12 V                 | 8.5 A          |              | S8FS-G10012CD |
|               |                | 15 V                 | 7 A            |              | S8FS-G10015CD |
|               |                | 24 V                 | 4.5 A          |              | S8FS-G10024CD |
| 150 W         |                | 5 V                  | 21 A           |              | S8FS-G15005CD |
|               |                | 12 V                 | 13 A           |              | S8FS-G15012CD |
|               |                | 15 V                 | 10 A           |              | S8FS-G15015CD |
|               |                | 24 V                 | 6.5 A          |              | S8FS-G15024CD |
|               |                | 48 V                 | 3.3 A          |              | S8FS-G15048CD |
| 300 W         |                | 12 V                 | 25 A           | Yes          | S8FS-G30012CD |
|               |                | 15 V                 | 20 A           |              | S8FS-G30015CD |
|               |                | 24 V                 | 14 A           |              | S8FS-G30024CD |
|               |                | 48 V                 | 7 A            |              | S8FS-G30048CD |
| 600 W         |                | 12 V                 | 50 A           |              | S8FS-G60012CD |
|               |                | 15 V                 | 40 A           |              | S8FS-G60015CD |
|               |                | 24 V                 | 27 A           |              | S8FS-G60024CD |
|               |                | 48 V                 | 13 A           |              | S8FS-G60048CD |

**Note:** Ask your OMRON representative for pricing information on optional models.

## Specifications

| Item                 |                                                | Power rating<br>Output voltage | 15 W                                                                                                                 |               |               |               |
|----------------------|------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|
|                      |                                                |                                | 5 V                                                                                                                  | 12 V          | 15 V          | 24 V          |
| Efficiency *         |                                                | 100 VAC input                  | 80% typ.                                                                                                             | 84% typ.      | 84% typ.      | 85% typ.      |
|                      |                                                | 200 VAC input                  | 80% typ.                                                                                                             | 84% typ.      | 84% typ.      | 86% typ.      |
|                      |                                                | 230 VAC input                  | 80% typ.                                                                                                             | 84% typ.      | 84% typ.      | 86% typ.      |
| Input                | Voltage range *                                |                                | Single phase, 85 to 264 VAC, 120 to 370 VDC                                                                          |               |               |               |
|                      | Frequency *                                    |                                | 50/60 Hz (47 to 450 Hz)                                                                                              |               |               |               |
|                      | Current *                                      | 100 VAC input                  | 0.32 A typ.                                                                                                          |               |               |               |
|                      |                                                | 200 VAC input                  | 0.2 A typ.                                                                                                           |               |               |               |
|                      | Power factor                                   |                                | ---                                                                                                                  |               |               |               |
|                      | Leakage current *                              | 100 VAC input                  | 0.5 mA max.                                                                                                          |               |               |               |
|                      |                                                | 200 VAC input                  | 1 mA max.                                                                                                            |               |               |               |
|                      | Inrush current *<br>(for a cold start at 25°C) | 100 VAC input                  | 14 A typ.                                                                                                            |               |               |               |
|                      |                                                | 200 VAC input                  | 28 A typ.                                                                                                            |               |               |               |
| Output               | Rated Output Current                           |                                | 3 A                                                                                                                  | 1.3 A         | 1 A           | 0.65 A        |
|                      | Voltage adjustment range *                     |                                | -10% to 15% (with V.ADJ)                                                                                             |               |               |               |
|                      | Ripple & Noise voltage *                       | 100 to 240 VAC input           | 40 mVp-p max.                                                                                                        | 40 mVp-p max. | 40 mVp-p max. | 60 mVp-p max. |
|                      | Input variation influence *                    |                                | 0.5% max.                                                                                                            |               |               |               |
|                      | Load variation influence *                     |                                | 1.0% max.                                                                                                            |               |               |               |
|                      | Temperature variation influence                | 100 to 240 VAC input           | 0.05%/°C max.                                                                                                        |               |               |               |
|                      |                                                |                                |                                                                                                                      |               |               |               |
|                      | Startup time *                                 | 100 VAC input                  | 1,000 ms max.                                                                                                        |               |               |               |
|                      |                                                | 200 VAC input                  | 1,000 ms max.                                                                                                        |               |               |               |
|                      | Hold time *                                    | 100 VAC input                  | 15 ms typ.                                                                                                           | 14 ms typ.    | 15 ms typ.    | 15 ms typ.    |
|                      |                                                | 200 VAC input                  | 75 ms typ.                                                                                                           | 70 ms typ.    | 75 ms typ.    | 70 ms typ.    |
| Additional functions | Overload protection                            |                                | Yes, automatic reset                                                                                                 |               |               |               |
|                      | Overvoltage protection *                       |                                | Yes, 120% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input again) |               |               |               |
|                      | Overheat protection                            |                                | No                                                                                                                   |               |               |               |
|                      | Series operation                               |                                | Yes (For up to two Power Supplies, external diodes are required.)                                                    |               |               |               |
|                      | Parallel operation                             |                                | No (However, backup operation is possible, external diodes are required.)                                            |               |               |               |
|                      | Remote sensing                                 |                                | No                                                                                                                   |               |               |               |
|                      | Remote control                                 |                                | No                                                                                                                   |               |               |               |
| Insulation           | Output indicator                               |                                | Yes (LED: Green)                                                                                                     |               |               |               |
|                      | Withstand voltage                              |                                | 3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA                            |               |               |               |
|                      |                                                |                                | 2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA                                |               |               |               |
|                      |                                                |                                | 1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA                               |               |               |               |
| Environment          | Insulation resistance                          |                                | 100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC                           |               |               |               |
|                      | Ambient operating temperature                  |                                | -20 to 70°C (Derating is required according to the temperature.) (with no condensation or icing)                     |               |               |               |
|                      | Storage temperature                            |                                | -25 to 75°C (with no condensation or icing)                                                                          |               |               |               |
| Reliability          | Ambient operating humidity                     |                                | 90% max. (Storage humidity: 90% max.)                                                                                |               |               |               |
|                      | Vibration resistance                           |                                | 10 to 55 Hz, 4.5 G max., 0.375-mm half amplitude for 2 h each in X, Y, and Z directions                              |               |               |               |
|                      | Shock resistance                               |                                | 150 m/s <sup>2</sup> , 3 times each in ±X, ±Y, ±Z directions                                                         |               |               |               |
| Construction         | MTBF                                           |                                | 135,000 hrs min.                                                                                                     |               |               |               |
|                      | Life expectancy *                              |                                | 10 years min.                                                                                                        |               |               |               |
|                      | Dimensions (W×H×D)                             |                                | Refer to <i>Dimensions</i> on page 18.                                                                               |               |               |               |
| Standards            | Weight                                         |                                | 250 g                                                                                                                |               |               |               |
|                      | Cooling fan                                    |                                | No                                                                                                                   |               |               |               |
|                      | Degree of protection                           |                                | ---                                                                                                                  |               |               |               |
| Standards            | Harmonic current emissions                     |                                | Conforms to EN 61000-3-2                                                                                             |               |               |               |
|                      | EMI *                                          | Conducted Emissions            | Conforms to EN 61204-3 Class B, EN 55011 Class B                                                                     |               |               |               |
|                      |                                                | Radiated Emissions             | Conforms to EN 61204-3 Class B, EN 55011 Class B                                                                     |               |               |               |
|                      | EMS                                            |                                | Conforms to EN 61204-3 high severity levels                                                                          |               |               |               |
|                      | Safety Standards                               |                                | UL 508 (Listing, excluding models with connector option)                                                             |               |               |               |
|                      |                                                |                                | UL 60950-1 (Recognition, OVCII [≤ 3,000 m], Pol2)                                                                    |               |               |               |
|                      |                                                |                                | CSA C22.2 No.107.1 (excluding models with connector option)                                                          |               |               |               |
|                      |                                                |                                | CSA C22.2 No.60950-1 (excluding models with connector option)                                                        |               |               |               |
|                      |                                                |                                | EN 50178 (OVCI [≤ 2,000 m], OVCI [≥ 2,000 m and ≤ 3,000 m], Pol2)                                                    |               |               |               |
|                      |                                                |                                | EN 60950-1 (OVCI [≤ 3,000 m], Pol2)                                                                                  |               |               |               |
|                      |                                                |                                | Conforms to EN/IEC 61558-2-16.                                                                                       |               |               |               |
|                      | Marine Standards                               |                                | No                                                                                                                   |               |               |               |
|                      | SEMI                                           |                                | Conforms to F47-0706 (200 VAC input)                                                                                 |               |               |               |

\* Refer to *Ratings, Characteristics, and Functions* on page 11.