

With Cover/Direct Mounting

| Power ratings | Input voltage | Output voltage (VDC) | Output current | Built-in fan | Model |
|---------------|--|----------------------|----------------|--------------|--------------|
| 15 W | 100 to 240 VAC (Permissible range 85 to 264 VAC, 80 to 370 VDC) *4 | 5 V | 3 A | None | S8FS-G01505C |
| | | 12 V | 1.3 A | | S8FS-G01512C |
| | | 15 V | 1 A | | S8FS-G01515C |
| | | 24 V | 0.65 A | | S8FS-G01524C |
| 30 W | | 5 V | 6 A | | S8FS-G03005C |
| | | 12 V | 3 A | | S8FS-G03012C |
| | | 15 V | 2.4 A | | S8FS-G03015C |
| | | 24 V | 1.5 A | | S8FS-G03024C |
| 50 W | | 5 V | 8 A *1 | | S8FS-G05005C |
| | | 12 V | 4.3 A | | S8FS-G05012C |
| | | 15 V | 3.5 A | | S8FS-G05015C |
| | | 24 V | 2.2 A | | S8FS-G05024C |
| 100 W | | 5 V | 16 A *2 | | S8FS-G10005C |
| | | 12 V | 8.5 A | | S8FS-G10012C |
| | | 15 V | 7 A | | S8FS-G10015C |
| | | 24 V | 4.5 A | | S8FS-G10024C |
| 150 W | 5 V | 21 A *3 | S8FS-G15005C | | |
| | 12 V | 13 A | S8FS-G15012C | | |
| | 15 V | 10 A | S8FS-G15015C | | |
| | 24 V | 6.5 A | S8FS-G15024C | | |
| | 48 V | 3.3 A | S8FS-G15048C | | |
| 300 W | 100 to 240 VAC (Permissible range 85 to 264 VAC, 120 to 370 VDC) | 12 V | 25 A | Yes | S8FS-G30012C |
| | | 15 V | 20 A | | S8FS-G30015C |
| | | 24 V | 14 A | | S8FS-G30024C |
| | | 48 V | 7 A | | S8FS-G30048C |
| 600 W | 100 to 240 VAC (Permissible range 85 to 264 VAC, 120 to 350 VDC) | 12 V | 50 A | | S8FS-G60012C |
| | | 15 V | 40 A | | S8FS-G60015C |
| | | 24 V | 27 A | | S8FS-G60024C |
| | | 48 V | 13 A | | S8FS-G60048C |

Note: 1. Ask your OMRON representative for pricing information on optional models.

2. Front-mounting is not possible.

To mount a Power Supply from the front, purchase a DIN Rail-mounting Power Supply and a Front-mounting Bracket (sold separately). Refer to page 27.

With Cover/Direct Mounting (Extended hold time type)

| Power ratings | Input voltage | Output voltage (VDC) | Output current | Built-in fan | Model |
|---------------|---|----------------------|----------------|--------------|----------------|
| 300 W | 100 to 240 VAC (Permissible range 85 to 264 VAC, 120 to 370 VDC) | 24 V | 14 A | Yes | S8FS-G30024C-H |
| 600 W | 100 to 240 VAC (Permissible range 85 to 264 VAC, 120 to 350 VDC) | | 27 A | | S8FS-G60024C-H |

With Cover/Direct Mounting (Connector type)

| Power ratings | Input voltage | Output voltage (VDC) | Output current | Built-in fan | Model |
|---------------|--|----------------------|----------------|--------------|---------------|
| 15 W | 100 to 240 VAC (Permissible range 85 to 264 VAC, 80 to 370 VDC) *4 | 24 V | 0.65 A | None | S8FS-G01524CE |
| 30 W | | | 1.5 A | | S8FS-G03024CE |
| 50 W | | | 2.2 A | | S8FS-G05024CE |
| 100 W | | | 4.5 A | | S8FS-G10024CE |
| 150 W | | | 6.5 A | | S8FS-G15024CE |

*1. The output electric power is 40 W.

*2. The output electric power is 80 W.

*3. The output electric power is 105 W.

*4. Applicable to products produced from May 2018.

Specifications

| Item | Power rating | | 15 W | | | |
|--|---------------------------------|--------------------------------------|---|---------------|---------------|---------------|
| | Output voltage | | 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, 80 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 * (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 | | | |
| Output indicator | | Yes (LED: Green) | | | | |
| Insulation | 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 | | | |
| | Insulation resistance | | 100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC | | | |
| Environment | 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) | | | |
| | 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 | | | |
| Reliability | Shock resistance | | 150 m/s ² , 3 times each in ±X, ±Y, ±Z directions | | | |
| | MTBF | | 135,000 hrs min. | | | |
| | Life expectancy * | | 10 years min. | | | |
| Construction | Dimensions (W×H×D) | | Refer to <i>Dimensions</i> on page 19. | | | |
| | 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, UL 62368-1 (Recognition, OVCII [≤ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with connector option) CSA C22.2 No.60950-1, No.62368-1 (excluding models with connector option) EN 50178 (OVCIII [≤ 2,000 m], OVCII [> 2,000 m and ≤ 3,000 m], Pol2) EN/IEC 60950-1, EN/IEC 62368-1 (OVCII [≤ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16 Conforms to PELV (EN/IEC 60204-1) | | | |
| | Marine Standards | | No | | | |
| SEMI | | Conforms to F47-0706 (200 VAC input) | | | | |

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