250W Single Output Switching Power Supply

### SPECIFICATION

#### MODEL
- **SFS-250-6**
- **SFS-250-12**
- **SFS-250-15**
- **SFS-250-24**
- **SFS-250-36**
- **SFS-250-48**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DC VOLTAGE</th>
<th>RATED CURRENT</th>
<th>CURRENT RANGE</th>
<th>RATED POWER</th>
<th>RIPPLE &amp; NOISE (max.)</th>
<th>VOLTAGE TOLERANCE (max.)</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
<th>SETUP TIME</th>
<th>HOLD TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SFS-250-6</strong></td>
<td>6V</td>
<td>24A</td>
<td>0A-240A</td>
<td>150W</td>
<td>0.12%</td>
<td>-10%</td>
<td>1.5%</td>
<td>3.0%</td>
<td>50ms</td>
<td>15ms</td>
</tr>
<tr>
<td><strong>SFS-250-12</strong></td>
<td>12V</td>
<td>24A</td>
<td>0A-240A</td>
<td>240W</td>
<td>0.12%</td>
<td>-10%</td>
<td>1.5%</td>
<td>3.0%</td>
<td>50ms</td>
<td>15ms</td>
</tr>
<tr>
<td><strong>SFS-250-15</strong></td>
<td>15V</td>
<td>16A</td>
<td>0A-160A</td>
<td>240W</td>
<td>0.12%</td>
<td>-10%</td>
<td>1.5%</td>
<td>3.0%</td>
<td>50ms</td>
<td>15ms</td>
</tr>
<tr>
<td><strong>SFS-250-24</strong></td>
<td>24V</td>
<td>16A</td>
<td>0A-160A</td>
<td>240W</td>
<td>0.12%</td>
<td>-10%</td>
<td>1.5%</td>
<td>3.0%</td>
<td>50ms</td>
<td>15ms</td>
</tr>
<tr>
<td><strong>SFS-250-36</strong></td>
<td>36V</td>
<td>15%</td>
<td>0A-100A</td>
<td>200W</td>
<td>0.12%</td>
<td>-10%</td>
<td>1.5%</td>
<td>3.0%</td>
<td>50ms</td>
<td>15ms</td>
</tr>
<tr>
<td><strong>SFS-250-48</strong></td>
<td>48V</td>
<td>15%</td>
<td>0A-100A</td>
<td>200W</td>
<td>0.12%</td>
<td>-10%</td>
<td>1.5%</td>
<td>3.0%</td>
<td>50ms</td>
<td>15ms</td>
</tr>
</tbody>
</table>

#### INPUT
- **VOLTAGE RANGE**
  - **Note 1:** 180 - 360VAC
- **FREQUENCY**
  - 47 - 63Hz
- **EFFICIENCY (Typ.)**
  - 85% + 85%
- **AC CURRENT**
  - 2.2A/115VAC
  - 2.2A/230VAC
- **INRUSH CURRENT (Typ.)**
  - COIL CURRENT: 70mAT (measured at 50% Rated) @ 230VAC
  - LEAKAGE CURRENT: 9.3mA @ 240VAC

#### PROTECTION
- **OVER CURRENT**
  - 110% of rated output power
  - Protection type: Microprocessor, recovers automatically after fault condition is removed
- **OVER VOLTAGE**
  - 370V/230VAC
  - Protection type: Shunt Limiter, no reverse power, non-recovering

#### ENVIRONMENT
- **WORKING TEMP.**
  - -25°C ~ +70°C (Refer to Derating Curve)
- **WORKING HUMIDITY**
  - 30~90% RH non-condensing

#### SAFETY & EMC
- **SAFETY STANDARDS**
  - UL listed, Design refer to TUV EN60950-1
- **WITHSTAND VOLTAGE**
  - 2500VAC, 50Hz/60Hz
- **ISOLATION RESISTANCE**
  - 250MΩ @ 25°C, 75% RH
- **EMC EMISSIONS**
  - Compliance to CISPR 22 Class B, EN61000-3-2
- **EMC IMMUNITY**
  - EN61000-4-2, 4, 9, 5, 3, 8, 11, 5, 7, 6, 4, 5
  - UL Industry level, vobarian A
- **MTBF**
  - 70000 hours
- **DIMENSION**
  - 240x100x14 (WxHxD)
- **WEIGHT**
  - 1.2kg

#### Packing
- **1 pc.** 240x100x14 (WxHxD)

#### Note
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & Noise are measured at 20MHz of bandwidth by using 12” shielded pair wire terminated with a 0.05uH & 47uF parallel capacitor.
3. Tolerance: ±1% of rated value, ±2% of load regulation.
4. Dimensions may vary due to different input voltage. Please check the exact characteristic for more details.
5. The power supply is considered as a component that will be operated in combination with the complete equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturer must re-check EMC Directive on the complete installation again.
6. Length of setup time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the setup time.
7. The unit might not be suitable for high reliability applications in EU countries. Please check with your local authorities for the possible use of the unit.
8. Suitable for indoor use or outdoor use without direct sunlight exposure.