60W Single Output Switching Power Supply

**SPECIFICATION**

**MODEL**
- SFS-60-1
- SFS-60-12
- SFS-60-15
- SFS-60-24
- SFS-60-36
- SFS-60-48

**FEATURES**
- Constant voltage design
- Universal AC input / Full range
- Withstand 3000VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note:8)
- Fully isolated plastic case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

**OUTPUT**
- DC Voltage: 12V, 18V, 24V, 36V, 48V
- RATED CURRENT: 5A, 5A, 2.5A, 1.67A, 1.25A
- CURRENT RANGE: 0 - 5A, 0 - 3A, 0 - 2.5A, 0 - 1.67A, 0 - 1.25A
- VOLTAGE TOLERANCE: ±0.1%, ±0.5%
- LINE REGULATION: ±0.1%
- LOAD REGULATION: ±0.5%
- SETUP, RISE TIME: 1000ns, 2000ns / 230VAC
- HOLD UP TIME (Typ): 50ms / 230VAC, 10ms / 115VAC at full load

**INPUT**
- FREQUENCY RANGE: 47 - 63Hz
- EFFICIENCY (Typ): 70%
- AC CURRENT (Typ): 1.2A / 115VAC, 1.0A / 230VAC
- INRUSH CURRENT (Max): 150% of rated current measured at 50% load (5250VAC)
- LEAKAGE CURRENT: 0.2mA / 240VAC

**PROTECTION**
- OVERLOAD: 110% - 150% rated input power
- OVER VOLTAGE: 5.1V - 6.7V, 13.8 - 16.2V, 17.2 - 20.28V, 27.6 - 32.6V
- TEMPERATURE COEFFICIENT: ±0.07%/°C (0 - 90°C)
- VIBRATION: 10 - 500Hz, 2G, 10% / 1G, /10% / 1G, /10% / 1G

**SAFETY & EMI**
- UL/CSA 60950-1
- EN 60950
- EN 61558-1
- EN 61558-2-2 Class B
- EN 55022 Class B
- EN 55011-3-3
- EN 55024-4-2-4-6
- EN 55020

**ENVIRONMENT**
- STORAGE TEMP.: -40°C ~ 85°C
- WORKING TEMP.: -20°C ~ 90°C
- HUMIDITY: 20% ~ 90% RH non-condensing
- DIMENSION: 189x158x59mm (L/W/H)

**PACKING**
- 895g per unit (SFS-60W)

**NOTE**
- 1. All parameters are measured at standard conditions unless otherwise specified.
- 2. Ripple & noise are measured at 50Hz of bandwidth by using a 12" twisted pair wire terminated with a 0.1uF & 47Ω parallel capacitor.
- 3. Input voltage is at 110V to 250V for the different models.
- 4. Derating may be needed under low input voltage. Please check the static characteristics for more details.
- 5. Overload protection is intended to be used with our products and may be used in combination with fixed equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturer must re qualify EMC Directive on the complete installation.
- 6. Length of leads must be limited to prevent long leads from creating a source of EMI.
- 7. This unit might be suitable for light-duty applications in EU countries. Please check with your local authorities for the possible use of the unit.
- 8. Suitable for outdoor use or outdoor use without direct sunlight exposure. Please avoid immersion in the water over 30 minutes.