

TOTAL POWER INT'L

60W Single Output Switching Power Supply

S-60 series



■ Features :

- Universal AC input/Full range
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 50KHz
- 2 years warranty

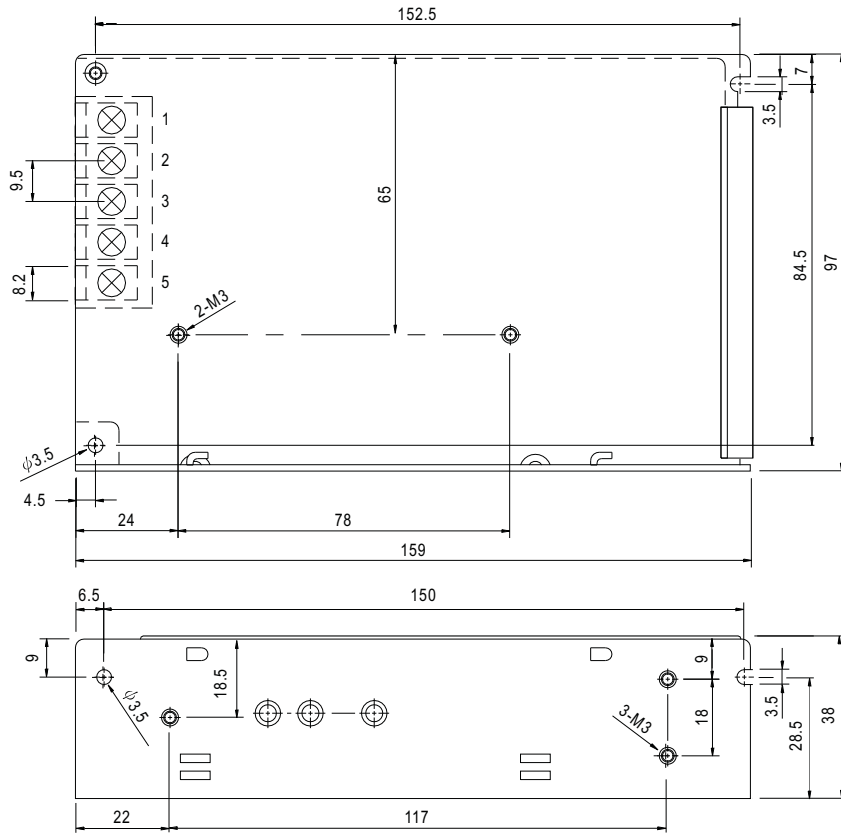


SPECIFICATION

| MODEL | S-60-5 | S-60-12 | S-60-15 | S-60-24 | |
|------------------------|--|--|--------------|---------------|--------------|
| OUTPUT | DC VOLTAGE | 5V | 12V | 15V | 24V |
| | RATED CURRENT | 12A | 5A | 4A | 2.5A |
| | CURRENT RANGE | 0 ~ 12A | 0 ~ 5A | 0 ~ 4A | 0 ~ 2.5A |
| | RATED POWER | 60W | 60W | 60W | 60W |
| | RIPPLE & NOISE (max.) Note.2 | 120mVp-p | 120mVp-p | 150mVp-p | 150mVp-p |
| | VOLTAGE ADJ. RANGE | 4.75 ~ 5.5V | 10.8 ~ 13.2V | 13.5 ~ 16.5V | 21.6 ~ 26.4V |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±1.0% | ±1.0% | ±1.0% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±1.0% | ±0.5% | ±0.5% | ±0.5% |
| SETUP, RISE, HOLD TIME | 300ms, 50ms, 80ms / 230VAC 800ms, 50ms, 10ms / 115VAC at full load | | | | |
| INPUT | VOLTAGE RANGE | 85 ~ 264VAC 120 ~ 370VDC | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | |
| | EFFICIENCY(Typ.) | 73% | 76% | 77% | 79% |
| | AC CURRENT | 2A/115VAC 1A/230VAC | | | |
| | INRUSH CURRENT(max.) | COLD START 30A/115VAC 60A/230VAC | | | |
| | LEAKAGE CURRENT | <3.5mA / 240VAC | | | |
| PROTECTION | OVER LOAD | 105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed. | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25 | 27.6 ~ 32.4V |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +60°C (Refer to output load derating curve) | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL1012, UL1950, TUV EN60950 Approved | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | | | |
| OTHERS | MTBF | 316.2K hrs min. MIL-HDBK-217F (25°C) | | | |
| | DIMENSION | 159*97*38mm (L*W*H) | | | |
| | PACKING | 0.51Kg; 24pcs/13.1Kg/0.7CUFT | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> | | | | |

Mechanical Specification

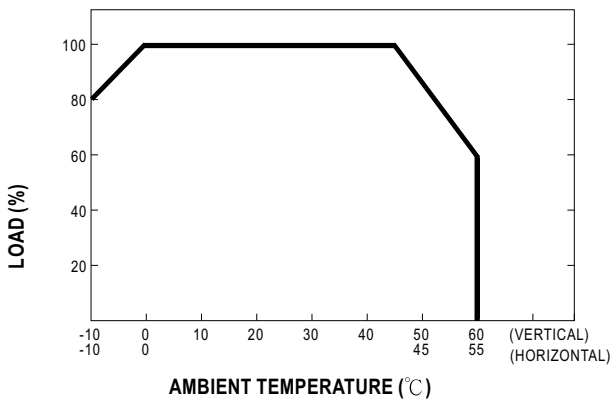
Case No. 901 Unit:mm



Terminal Pin. No Assignment

| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|--------------|
| 1 | AC/L | 4 | DC OUTPUT -V |
| 2 | AC/N | 5 | DC OUTPUT +V |
| 3 | FG \pm | | |

Output Derating



Static Characteristics (24V)

