# 35W Single Output Switching Power Supply

- **Features:**
  - Universal AC input / Full range
  - Protections: Short circuit / Overload / Over voltage
  - Cooling by free air convection
  - 100% full load burn-in test
  - Fixed switching frequency at 37KHz

## Specifications

| Model       | DC Voltage | Rated Current | Current Range | Rated Power | Ripple & Noise (max.) | Voltage Adj. Range | Voltage Tolerance | Line Regulation | Load Regulation |
|-------------|------------|---------------|---------------|-------------|-----------------------|--------------------|-------------------|----------------|----------------|----------------|
| MS-35-5     | 5V         | 7A            | 0 ~ 7A        | 35W         | 50mVp-p               | 4.75 ~ 5.5V        | ±0.5%            | ±1.0%          | ±1.0%          |
| MS-35-12    | 12V        | 3A            | 0 ~ 3A        | 35W         | 100mVp-p              | 10.6 ~ 13.2V       | ±1.0%            | ±0.5%          | ±0.5%          |
| MS-35-24    | 24V        | 1.5A          | 0 ~ 1.5A      | 35W         | 100mVp-p              | 21.6 ~ 26.4V       | ±1.0%            | ±0.5%          | ±0.5%          |

- **Setup, Rise Time:**
  - 300ms, 50ms/230VAC
  - 800ms, 50ms/115VAC at full load

- **Hold Up Time (Typ.):**
  - 90ms/230VAC
  - 12ms/115VAC at full load

- **Input Voltage Range:**
  - 85 ~ 264VAC
  - 120 ~ 370VDC

- **Frequency Range:**
  - 47 ~ 63Hz

- **AC Current (Typ.):**
  - 0.6A/115VAC
  - 0.35A/230VAC

- **Inrush Current (Typ.):**
  - Cold Start 3A/115VAC
  - 26A/230VAC

- **Leakage Current:**
  - <0.75mA / 240VAC

- **Protection:**
  - Overload: 105 ~ 150% rated output power
  - Protection type: Hiccup mode, recovers automatically after fault condition is removed.

- **Working Temperature:**
  - -10 ~ 60°C (Refer to "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:**
  - 500Hz, 2g 10min./cycle, period for 60min. each along X, Y, Z axes

- **Safety Standards:**
  - UL1012, TUV EN60950-1 approved

- **Withstand Voltage:**
  - IP-OIP, 1.5KVAC
  - IP-FG, 1.5KVAC
  - IP-FG, 0.5KVAC

- **Isolation Resistance:**
  - IP-OIP, IP-FG, OIP-FG: 100Mohms / 500VDC / 25°C / 70% RH

- **EMC Emission:**
  - Compliance to EN55022 (CISPR22) Class B, EN61000-3-2, 3

- **EMC Immunity:**
  - Compliance to EN61000-4-2, 3, 4, 5, EN55024, light industry level, criteria A

- **MTBF:**
  - 330,8K hrs min.

- **Dimension:**
  - 94*56*36mm (L*W*H)

- **Packing:**
  - 0.17Kg; 86pa*s/13Kg/0.9CUFT

**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 200kHz of bandwidth by using a 12” twisted pair wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.