# 10W 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 56kHz
- Low cost, high reliability.

## Specification

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<tbody>
<tr>
<td>CY-10-5</td>
<td>5V</td>
<td>2A</td>
<td>0-2A</td>
<td>10W</td>
<td>30mVp-p</td>
<td>4.75 - 5.5V</td>
<td>±2.0%</td>
<td>±0.5%</td>
<td>±1.0%</td>
<td>200ms</td>
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<tr>
<td>CY-10-12</td>
<td>12V</td>
<td>0.8A</td>
<td>0-0.8A</td>
<td>10W</td>
<td>100mVp-p</td>
<td>10.8 - 13.2V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±1.0%</td>
<td>100ms</td>
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<td>CY-10-24</td>
<td>24V</td>
<td>0.4A</td>
<td>0-0.4A</td>
<td>10W</td>
<td>100mVp-p</td>
<td>21.6 - 24.4V</td>
<td>±1.0%</td>
<td>±0.5%</td>
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## Protection
- **Overload:** 105% - 150% rated output power
  - Protection type: Hiccup mode, recovers automatically after fault condition is removed.

## Environment
- **Working Temp.:** -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:** 50Hz, 2G / 10min./cycle, period for 80min. each along X, Y, Z axes

## Safety & EMC
- **Safety Standards:** UL1012, TUV EN60950-1 approved
- **Withstand Voltage:** IP-OP: 1.5kVAC, IP-FG: 1.5kVAC, OP-FG: 0.5kVAC
- **Isolation Resistance:** IP-OP, IP-FG, OP-FG: 100M Ohms / 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, A4, EN55024, light industry level, criteria A

## Others
- **MTBF:** 522.1K hrs min, MIL-HDBK-217F (25°C)
- **Dimension:** 77x48x21mm (LxWxH)
- **Packing:** 0.0786±6 pcs / 15Kg, 0.9 cuft

## 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 a 12" twisted pair wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.