# 350W Single Output Switching Power Supply

## Features:
- Universal AC input / Full range
- Protections: Short circuit/Over load/Over voltage
- Forced air cooling by built-in DC fan
- PWM control and regulated
- Built-in cooling Fan ON-OFF control
- 100% full load burn-in test
- Fixed switching frequency at 25KHz
- Low cost

## Specification

<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 ADJ. RANGE</th>
<th>VOLTAGE TOLERANCE</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NL-350-5</td>
<td>5V</td>
<td>50A</td>
<td>0 - 50A</td>
<td>260W</td>
<td>150mVp-p</td>
<td>4.5 - 5.6V</td>
<td>±2.0%</td>
<td>±0.5%</td>
<td>±1.0%</td>
</tr>
<tr>
<td>NL-350-7.5</td>
<td>7.5V</td>
<td>40A</td>
<td>0 - 40A</td>
<td>300W</td>
<td>150mVp-p</td>
<td>6 - 9V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>NL-350-12</td>
<td>12V</td>
<td>29A</td>
<td>0 - 29A</td>
<td>348W</td>
<td>150mVp-p</td>
<td>10 - 13.2V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>NL-350-13.5</td>
<td>13.5V</td>
<td>25.8A</td>
<td>0 - 25.8A</td>
<td>348.3W</td>
<td>150mVp-p</td>
<td>12 - 15V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>NL-350-15</td>
<td>15V</td>
<td>23.2A</td>
<td>0 - 23.2A</td>
<td>348W</td>
<td>150mVp-p</td>
<td>13.5 - 18V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>NL-350-24</td>
<td>24V</td>
<td>14.6A</td>
<td>0 - 14.6A</td>
<td>348W</td>
<td>150mVp-p</td>
<td>20 - 26.4V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>NL-350-27</td>
<td>27V</td>
<td>13A</td>
<td>0 - 13A</td>
<td>351W</td>
<td>200mVp-p</td>
<td>26 - 32V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>NL-350-48</td>
<td>48V</td>
<td>7.3A</td>
<td>0 - 7.3A</td>
<td>351W</td>
<td>240mVp-p</td>
<td>41 - 56V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
</tbody>
</table>

## Input
- **VOLTAGE RANGE**: 90 ~ 132VAC / 180 ~ 264VAC by switch
- **FREQUENCY**: 47 - 63Hz
- **EFFICIENCY (Typ.)**: 73% / 76% / 74% / 79% / 78% / 81% / 82% / 83%
- **AC CURRENT**: 6.5A / 115VAC / 4A / 230VAC
- **INRUSH CURRENT (max.)**: 50A / 115VAC / 50A / 230VAC
- **LEAKAGE CURRENT**: < 3.5mA / 240VAC

## Protection
- **OVER LOAD**: 105% ~ 135% rated output power
- **OVER VOLTAGE**: 5.75 ~ 6.75V / 9.4 ~ 10.9V / 13.8 ~ 16.2V / 15.9 ~ 18.2V / 18 ~ 21V / 27.6 ~ 32.4V / 33.7 ~ 39.2V / 57.6 ~ 67.2V

## Environment
- **WORKING TEMP.**: -10 ~ +50°C (Refer to output load derating curve)
- **WORKING HUMIDITY**: 20 ~ 90% RH non-condensing
- **STORAGE TEMP. HUMIDITY**: -20 ~ +85°C, 10 ~ 90% RH
- **TEMP. COEFFICIENT**: ±0.03%/°C (0 ~ 50°C)
- **VIBRATION**: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes

## Safety & E.M.C
- **WITHSTAND VOLTAGE**: 1kV / 1kVAC / 1kV / 1kVAC / O/P-FG: 1kVAC
- **ISOLATION RESISTANCE**: IP/0/IP, IP-FG, O/P-FG: 100M Ohms/500VDC

## Others
- **MTBF**: 234.3K hrs min. (MIL-HDBK-217F 25°C)
- **DIMENSION**: 221x68x40mm (LxWxH)
- **PACKING**: 3pcs/25Kg, 0.92CUFT

## 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 10pF twisted pair-wire terminated with a 0.1uf & 8.4uf parallel capacitor.
3. Tolerance: Includes set up tolerance, line regulation and load regulation.